DELIXI
ELECTRIC



Low Voltage Electrical Products

" **Delixi** Electric **Easy** Electric "

International Catalogue 2012



Delixi Electric
Easy Electric

easy+

Are you an electrician, an electric engineer, a director of technology purchasing, or a project manager?
What you need are globally recognized, reliable, and “easy” electric products and services.
Straightforward and customer–driven product options
Competitive prices
Friendly service
Convenient purchasing process
Unique brand advantage
Dependable execution...
Please visit DELIXI ELECTRIC to find out how unique and “easy” it can be with DELIXI ELECTRIC!

Delixi Electric: Who are we



A global company at your service

Delixi was founded in 1984 in Zhejiang province with sales over 1.5BM€,employing more than 15000 people. Delixi created an international Joint Venture in November 2007,named Delixi Electric Ltd., in order to serve you worldwide,with core LV products having the right quality at the right price.

Our products are designed for Residential/Building/Energy/infrastructure and Industrial markets.Delixi Electric employs 5200 people world wide.

A reliable company serving you with reliable product

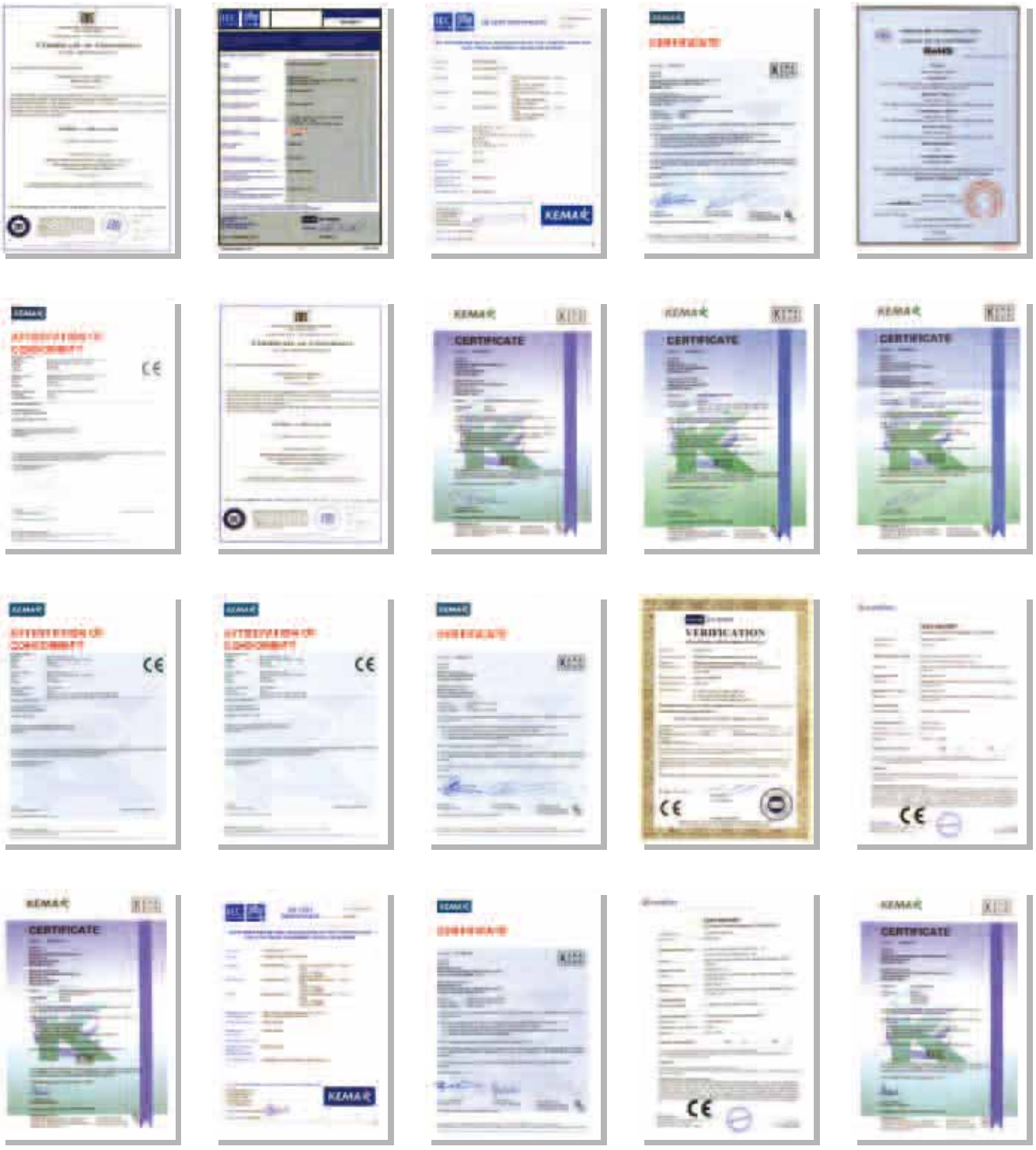


- **Dedicated R&D center**
- **International quality control of suppliers**
- **International quality control of plants**



- **Fully automatized distribution center**
- **Network of recognized 600 distributors world wide**

Reliable Quality



For more details, please contact your local Delixi Electrc Company.

Contents

Final Distribution



Miniature Circuit Breaker & Switch Disconnectors 5-27

CDB6	18mm Miniature Circuit Breaker	**6-10**
CDB6s	18mm Miniature Circuit Breaker	**11-16**
CDB2	27mm Miniature Circuit Breaker	**17-18**
CDB6p	Phase-neutral Circuit Breaker	**20-21**
CDB3	Phase-neutral Circuit Breaker	**22-23**
CDB6IS	Switch Disconnector	**24-25**
CDB5	Switch Disconnector	**26-27**



Residual Current Devices 28-43

CDB6LE	Residual Current Operated Circuit Breaker	**29-31**
CDB6v	Residual Current Protection Module	**32-34**
CDB2LE	Residual Current Operated Circuit Breaker	**35-37**
CDB6pLE	Residual Current Operated Circuit Breaker	**38-39**
CDB3LE	Residual Current Operated Circuit Breaker	**40-41**
CDL7	Electromagnetic Type Residual CurrentSwitch	**42-43**



Accessories for MCB&RCBO 44-47

SD,OF,MX+OF		**44-46**
Busbar		**47-47**



Control Devices 48-51

CDCH8	Modular Contactor	**48-49**
CDRT8	Time Relay	**50-51**



Surge Protective Device 52-53

CDY1	Surge Protective Device	**52-53**



Distribution Box 54-58

CDPZ50 Series	Consumer Box	**54-55**
JXF	Metal Enclosure	**56-58**

Low-voltage Distribution



Molded Case Circuit Breaker 59-97

CDM6s	Molded Case Circuit Breaker	**59-81**
CDM1	Molded Case Circuit Breaker	**82-90**
CDM1LE	Earth-Leakage Circuit Breaker	**91-97**



Air Circuit Breaker 98-120

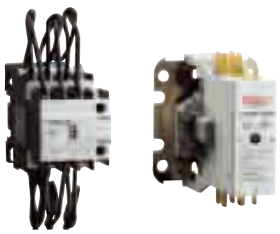
CDW6	Air Circuit Breaker	**98-120**

Motor Control & Protection



Contactor&Thermal Overload Relay 121-172

CDC6	AC Contactor	**123-138**
CDC6N	Directional AC Contactor	**127-127**
CDR6	Thermal Overload Relay	**139-145**
CDC17-K	Mini AC Contactor	**146-148**
CDR17-18	Thermal Overload Relay	**149-153**
CJX2	AC Contactor	**154-159**
JRS1D	Thermal Overload Relay	**160-164**
JRS2	Thermal Overload Relay	**165-172**



Definite Purpose Contactor 173-179

CDC9	Switching Capacitor Contactor	**173-175**
CDCK8	Air Condition Contactor	**176-179**



Relay 180-191

CDZ6	Contactor Relay	**180-182**
CDZ8	Miniature Relay	**183-186**
JSZ3	Electronic Time Relay	**187-189**
XJ9	Phase Failure and Sequence Protection Relay	**190-190**
CDTL17	Impluse Relay	**191-191**



Motor Protector 192-296

CDP17z	Motor Protector	**192-196**



Magnetic Starter 197-198

CDS2	Magnetic Starter	**197-198**

Power Energy Management



Current Transformer 199-201

LMK Series	Current Transformer	**199-201**



Meter 202-214

DDS607	Single-phase Electronic Watt-hour Meter	**203-204**
DTS607	Three-phase Four-Wire Electronic Watt-hour Meter	**205-207**
DSS607	Three-phase Three-Wire Electronic Watt-hour Meter	**208-210**
72 Series	Panel Meter	**211-212**
96 Series	Panel Meter	**213-214**



Digital Time Switch 215-218

KG316T	Digital Time Switch	**216-216**
KG316TD	Digital Time Switch	**217-217**
KG816 Series	Digital Time Switch	**218-218**



Voltage Stabilizer 219-225

TND	Single-phase Full Automatic AC Voltage Stabilizer	**220-221**
SJW	Three-phase Full Automatic AC Voltage Stabilizer	**222-223**
SBW	Three-phase Compensation AC Voltage Stabilizer	**224-225**

Industrial Control Components



Control Signal 226-252

LD11	Indicator Light	**227-230**
LAY5	Pushbutton Switches	**231-240**
LAY7	Pushbutton Switches	**241-246**
LAY8	Pushbutton Switches	**247-252**



Fuse 253-258

RT16	Fuse	**253-256**
RT18	Fuse	**257-258**



Industrial Plug&Socket 259-264

CDPM	Moving Industrial Plugs	**260-260**
CDP	Fixed Industrial Plugs	**261-261**
CDSM	Moving Industrial Sockets	**262-262**
CDSF	Fixed Industrial Sockets	**263-263**
CDPS	Multi-function Plugs and Sockets	**264-264**







Accessories 265-271

CCF	Cable Connector	**266-266**
TB	Copper Terminal Blocks	**267-270**
DINR	Din-rail	**271-271**

Miniature Circuit Breaker & Switch Disconnectors
Product Overview

18mm MCB



CDB6 6

In: 1-63A
Breaking Capacity: 3/4.5/6kA



CDB6s 11

In: 1-63A
Breaking Capacity: 3/4.5/6kA

27mm MCB



CDB2 17

In: 63-125A
Breaking Capacity: 10kA

18mm 1P+N MCB



CDB6p 20

In: 6-32A
Breaking Capacity: 3kA



CDB3 22

In: 6-32A
Breaking Capacity: 3kA

Switch Disconnectors



CDB6IS 24

In: 20-125A



CDB5 26

In: 20-100A

Accessories 44



MX+OF



SD



OF

CDB6 18mm Miniature Circuit Breaker

Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Function

CDB6 miniature circuit breaker combine the following functions:

- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Control
- Isolation

Order Information

Name	Breaking Capacity	Pole	Type	Rated current
CDB6	a: 3kA	1: 1P	B: B Curve	1: 1A
	L: 4.5kA	2: 2P	C: C Curve	3: 3A
	N: 6kA	3: 3P	D: D Curve	…
		4: 4P		63: 63A







Type	Breaking Capacity (kA)	Rating (A)	Width	Reference		
				B curve	C curve	D curve
1P	3	1	2	CDB6a1B1	CDB6a1C1	CDB6a1D1
		3	2	CDB6a1B3	CDB6a1C3	CDB6a1D3
		6	2	CDB6a1B6	CDB6a1C6	CDB6a1D6
		10	2	CDB6a1B10	CDB6a1C10	CDB6a1D10
		16	2	CDB6a1B16	CDB6a1C16	CDB6a1D16
		20	2	CDB6a1B20	CDB6a1C20	CDB6a1D20
		25	2	CDB6a1B25	CDB6a1C25	CDB6a1D25
		32	2	CDB6a1B32	CDB6a1C32	CDB6a1D32
		40	2	CDB6a1B40	CDB6a1C40	CDB6a1D40
		50	2	CDB6a1B50	CDB6a1C50	CDB6a1D50
		63	2	CDB6a1B63	CDB6a1C63	CDB6a1D63
	4.5	1	2	CDB6L1B1	CDB6L1C1	CDB6L1D1
		3	2	CDB6L1B3	CDB6L1C3	CDB6L1D3
		6	2	CDB6L1B6	CDB6L1C6	CDB6L1D6
		10	2	CDB6L1B10	CDB6L1C10	CDB6L1D10
		16	2	CDB6L1B16	CDB6L1C16	CDB6L1D16
		20	2	CDB6L1B20	CDB6L1C20	CDB6L1D20
		25	2	CDB6L1B25	CDB6L1C25	CDB6L1D25
		32	2	CDB6L1B32	CDB6L1C32	CDB6L1D32
		40	2	CDB6L1B40	CDB6L1C40	CDB6L1D40
		50	2	CDB6L1B50	CDB6L1C50	CDB6L1D50
		63	2	CDB6L1B63	CDB6L1C63	CDB6L1D63
	6	1	2	CDB6N1B1	CDB6N1C1	-
		3	2	CDB6N1B3	CDB6N1C3	-
		6	2	CDB6N1B6	CDB6N1C6	-
		10	2	CDB6N1B10	CDB6N1C10	-
		16	2	CDB6N1B16	CDB6N1C16	-
		20	2	CDB6N1B20	CDB6N1C20	-
		25	2	CDB6N1B25	CDB6N1C25	-
		32	2	CDB6N1B32	CDB6N1C32	-
		40	2	CDB6N1B40	CDB6N1C40	-
		50	2	-	-	-
		63	2	-	-	-
2P	3	1	4	CDB6a2B1	CDB6a2C1	CDB6a2D1
		3	4	CDB6a2B3	CDB6a2C3	CDB6a2D3
		6	4	CDB6a2B6	CDB6a2C6	CDB6a2D6
		10	4	CDB6a2B10	CDB6a2C10	CDB6a2D10
		16	4	CDB6a2B16	CDB6a2C16	CDB6a2D16
		20	4	CDB6a2B20	CDB6a2C20	CDB6a2D20
		25	4	CDB6a2B25	CDB6a2C25	CDB6a2D25
		32	4	CDB6a2B32	CDB6a2C32	CDB6a2D32
		40	4	CDB6a2B40	CDB6a2C40	CDB6a2D40
		50	4	CDB6a2B50	CDB6a2C50	CDB6a2D50
		63	4	CDB6a2B63	CDB6a2C63	CDB6a2D63

Note: Width refers to multiple of 9 mm.

CDB6 18mm Miniature Circuit Breaker

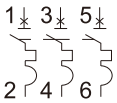
Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Order Information







Type	Breaking Capacity (kA)	Rating (A)	Width	Reference		
				B curve	C curve	D curve
	4.5	1	4	CDB6L2B1	CDB6L2C1	CDB6L2D1
		3	4	CDB6L2B3	CDB6L2C3	CDB6L2D3
		6	4	CDB6L2B6	CDB6L2C6	CDB6L2D6
		10	4	CDB6L2B10	CDB6L2C10	CDB6L2D10
		16	4	CDB6L2B16	CDB6L2C16	CDB6L2D16
		20	4	CDB6L2B20	CDB6L2C20	CDB6L2D20
		25	4	CDB6L2B25	CDB6L2C25	CDB6L2D25
		32	4	CDB6L2B32	CDB6L2C32	CDB6L2D32
		40	4	CDB6L2B40	CDB6L2C40	CDB6L2D40
		50	4	CDB6L2B50	CDB6L2C50	CDB6L2D50
		63	4	CDB6L2B63	CDB6L2C63	CDB6L2D63
	6	1	4	CDB6N2B1	CDB6N2C1	-
		3	4	CDB6N2B3	CDB6N2C3	-
		6	4	CDB6N2B6	CDB6N2C6	-
		10	4	CDB6N2B10	CDB6N2C10	-
		16	4	CDB6N2B16	CDB6N2C16	-
		20	4	CDB6N2B20	CDB6N2C20	-
		25	4	CDB6N2B25	CDB6N2C25	-
		32	4	CDB6N2B32	CDB6N2C32	-
		40	4	CDB6N2B40	CDB6N2C40	-
		50	4	-	-	-
		63	4	-	-	-
3P 	3	1	6	CDB6a3B1	CDB6a3C1	CDB6a3D1
		3	6	CDB6a3B3	CDB6a3C3	CDB6a3D3
		6	6	CDB6a3B6	CDB6a3C6	CDB6a3D6
		10	6	CDB6a3B10	CDB6a3C10	CDB6a3D10
		16	6	CDB6a3B16	CDB6a3C16	CDB6a3D16
		20	6	CDB6a3B20	CDB6a3C20	CDB6a3D20
		25	6	CDB6a3B25	CDB6a3C25	CDB6a3D25
		32	6	CDB6a3B32	CDB6a3C32	CDB6a3D32
		40	6	CDB6a3B40	CDB6a3C40	CDB6a3D40
		50	6	CDB6a3B50	CDB6a3C50	CDB6a3D50
		63	6	CDB6a3B63	CDB6a3C63	CDB6a3D63
	4.5	1	6	CDB6L3B1	CDB6L3C1	CDB6L3D1
		3	6	CDB6L3B3	CDB6L3C3	CDB6L3D3
		6	6	CDB6L3B6	CDB6L3C6	CDB6L3D6
		10	6	CDB6L3B10	CDB6L3C10	CDB6L3D10
		16	6	CDB6L3B16	CDB6L3C16	CDB6L3D16
		20	6	CDB6L3B20	CDB6L3C20	CDB6L3D20
		25	6	CDB6L3B25	CDB6L3C25	CDB6L3D25
		32	6	CDB6L3B32	CDB6L3C32	CDB6L3D32
		40	6	CDB6L3B40	CDB6L3C40	CDB6L3D40
		50	6	CDB6L3B50	CDB6L3C50	CDB6L3D50
		63	6	CDB6L3B63	CDB6L3C63	CDB6L3D63

Note: Width refers to multiple of 9 mm.

CDB6 18mm Miniature Circuit Breaker

Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Order Information





Type	Breaking Capacity (kA)	Rating (A)	Width	Reference		
				B curve	C curve	D curve
	6	1	6	CDB6N3B1	CDB6N3C1	-
		3	6	CDB6N3B3	CDB6N3C3	-
		6	6	CDB6N3B6	CDB6N3C6	-
		10	6	CDB6N3B10	CDB6N3C10	-
		16	6	CDB6N3B16	CDB6N3C16	-
		20	6	CDB6N3B20	CDB6N3C20	-
		25	6	CDB6N3B25	CDB6N3C25	-
		32	6	CDB6N3B32	CDB6N3C32	-
		40	6	CDB6N3B40	CDB6N3C40	-
		50	6	-	-	-
		63	6	-	-	-
4P	3	1	8	CDB6a4B1	CDB6a4C1	CDB6a4D1
1 3 5 7		3	8	CDB6a4B3	CDB6a4C3	CDB6a4D3
2 4 6 8		6	8	CDB6a4B6	CDB6a4C6	CDB6a4D6
		10	8	CDB6a4B10	CDB6a4C10	CDB6a4D10
		16	8	CDB6a4B16	CDB6a4C16	CDB6a4D16
		20	8	CDB6a4B20	CDB6a4C20	CDB6a4D20
		25	8	CDB6a4B25	CDB6a4C25	CDB6a4D25
		32	8	CDB6a4B32	CDB6a4C32	CDB6a4D32
		40	8	CDB6a4B40	CDB6a4C40	CDB6a4D40
		50	8	CDB6a4B50	CDB6a4C50	CDB6a4D50
		63	8	CDB6a4B63	CDB6a4C63	CDB6a4D63
	4.5	1	8	CDB6L4B1	CDB6L4C1	CDB6L4D1
		3	8	CDB6L4B3	CDB6L4C3	CDB6L4D3
		6	8	CDB6L4B6	CDB6L4C6	CDB6L4D6
		10	8	CDB6L4B10	CDB6L4C10	CDB6L4D10
		16	8	CDB6L4B16	CDB6L4C16	CDB6L4D16
		20	8	CDB6L4B20	CDB6L4C20	CDB6L4D20
		25	8	CDB6L4B25	CDB6L4C25	CDB6L4D25
		32	8	CDB6L4B32	CDB6L4C32	CDB6L4D32
		40	8	CDB6L4B40	CDB6L4C40	CDB6L4D40
		50	8	CDB6L4B50	CDB6L4C50	CDB6L4D50
		63	8	CDB6L4B63	CDB6L4C63	CDB6L4D63
	6	1	8	CDB6N4B1	CDB6N4C1	-
		3	8	CDB6N4B3	CDB6N4C3	-
		6	8	CDB6N4B6	CDB6N4C6	-
		10	8	CDB6N4B10	CDB6N4C10	-
		16	8	CDB6N4B16	CDB6N4C16	-
		20	8	CDB6N4B20	CDB6N4C20	-
		25	8	CDB6N4B25	CDB6N4C25	-
		32	8	CDB6N4B32	CDB6N4C32	-
		40	8	CDB6N4B40	CDB6N4C40	-
		50	8	-	-	-
		63	8	-	-	-

Note: Width refers to multiple of 9 mm.

CDB6 18mm Miniature Circuit Breaker

Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Technical Data

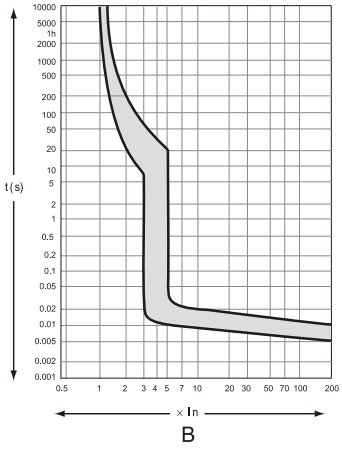
MCB	CDB6 18mm Circuit Breaker				
Electrical Features	Standard	IEC60898-1			
	Certification	CB, CE, RoHS			
	Poles	1-4P			
	Rated Current In	1,3,6,10,16,20,25,32,40,50,63 A			
	Rated Voltage Ue	230/400V AC			
	Insulation Voltage Ui	500V			
	Breaking Capacity Icn				
	Rate current(A)	Breaking capacity Icn(kA)	Type	Poles	Voltage (V)
	1-63	3	B,C,D	1P 2P, 3P, 4P	230/400 400
	1-63	4.5	B,C,D	1P 2P, 3P, 4P	230/400 400
	1-40	6	B,C	1P 2P, 3P, 4P	230/400 400
	50,63	4.5	B,C	1P 2P, 3P, 4P	230/400 400
	Tripping Curve(see following tripping curve pictures)				
	B Curve:the magnetic release operates between 3 and 5 In C Curve:the magnetic release operates between 5 and 10 In D Curve:the magnetic release operates between 10 and 14 In				
Mechanical Features	Electrical Durability	4000 times			
	Mechanical Durability	10000 times			
	Protection Degree	2			
	Tropicalization	treatment 2			
	Ambient Temperature	-5°C ~ +40°C			
Connection	Up to 25mm^2 cables				
Installation	Rate Current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)	
	1-63	M5	2.5	4.5	
Mounting	35mm Din-rail				
Accessories	Contact Accessory	OF			
	Fault-indicating Accessory	SD			
	Shunt -trip release	MX+OF			

CDB6 18mm Miniature Circuit Breaker

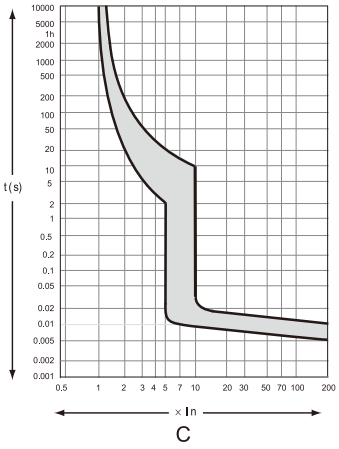
Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Tripping Curve

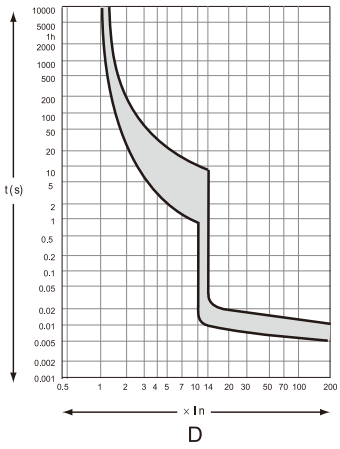
CDB6 Miniature Circuit Breaker



B



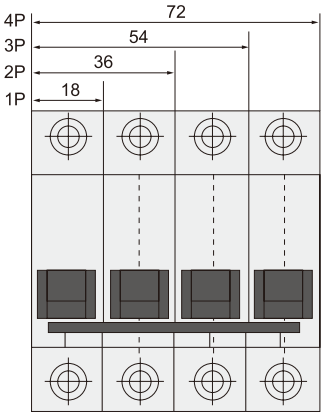
C

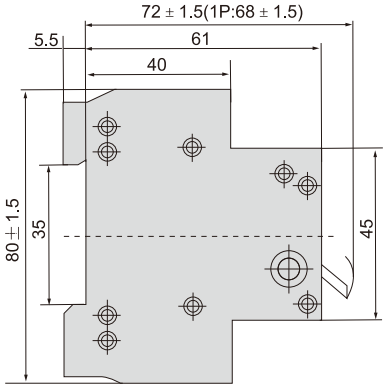


D

Overall Dimensions

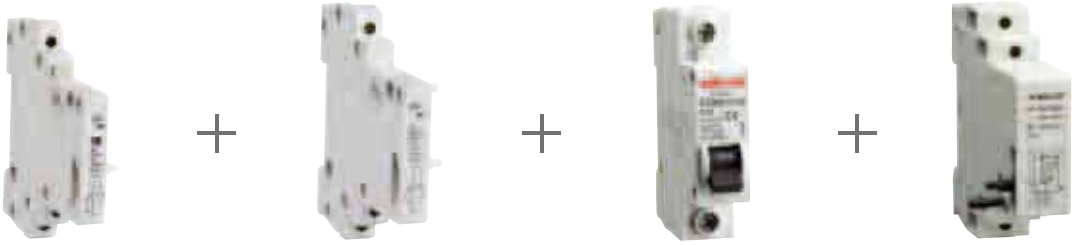
Unit:mm





Accessory

The Sketch Map of Installation with Breakers



SD + OF + CDB6 + MX+OF

CDB6s 18mm Miniature Circuit Breaker

Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Function

CDB6s miniature circuit breakers combine the following functions:

- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Control
- Isolation

Order Information

Name	Breaking Capacity	Pole	Type	Rated current
CDB6s	a: 3kA	1: 1P	B: B Curve	1: 1A
	L: 4.5kA	2: 2P	C: C Curve	2: 2A
	N: 6kA	3: 3P	D: D Curve	…
		4: 4P		63: 63A



Type	Breaking Capacity (kA)	Rating (A)	Width	Reference		
				B curve	C curve	D curve
1P	3	1	2	CDB6sa1B1	CDB6sa1C1	CDB6sa1D1
1		2	2	CDB6sa1B2	CDB6sa1C2	CDB6sa1D2
2		3	2	CDB6sa1B3	CDB6sa1C3	CDB6sa1D3
		4	2	CDB6sa1B4	CDB6sa1C4	CDB6sa1D4
		5	2	CDB6sa1B5	CDB6sa1C5	CDB6sa1D5
		6	2	CDB6sa1B6	CDB6sa1C6	CDB6sa1D6
		8	2	CDB6sa1B8	CDB6sa1C8	CDB6sa1D8
		10	2	CDB6sa1B10	CDB6sa1C10	CDB6sa1D10
		13	2	CDB6sa1B13	CDB6sa1C13	CDB6sa1D13
		16	2	CDB6sa1B16	CDB6sa1C16	CDB6sa1D16
		20	2	CDB6sa1B20	CDB6sa1C20	CDB6sa1D20
		25	2	CDB6sa1B25	CDB6sa1C25	CDB6sa1D25
		32	2	CDB6sa1B32	CDB6sa1C32	CDB6sa1D32
		40	2	CDB6sa1B40	CDB6sa1C40	CDB6sa1D40
		50	2	CDB6sa1B50	CDB6sa1C50	CDB6sa1D50
		63	2	CDB6sa1B63	CDB6sa1C63	CDB6sa1D63
	4.5/6	1	2	CDB6sN1B1	CDB6sN1C1	CDB6sL1D1
		2	2	CDB6sN1B2	CDB6sN1C2	CDB6sL1D2
		3	2	CDB6sN1B3	CDB6sN1C3	CDB6sL1D3
		4	2	CDB6sN1B4	CDB6sN1C4	CDB6sL1D4
		5	2	CDB6sN1B5	CDB6sN1C5	CDB6sL1D5
		6	2	CDB6sN1B6	CDB6sN1C6	CDB6sL1D6
		8	2	CDB6sN1B8	CDB6sN1C8	CDB6sL1D8
		10	2	CDB6sN1B10	CDB6sN1C10	CDB6sL1D10
		13	2	CDB6sN1B13	CDB6sN1C13	CDB6sL1D13
		16	2	CDB6sN1B16	CDB6sN1C16	CDB6sL1D16
		20	2	CDB6sN1B20	CDB6sN1C20	CDB6sL1D20
		25	2	CDB6sN1B25	CDB6sN1C25	CDB6sL1D25
		32	2	CDB6sN1B32	CDB6sN1C32	CDB6sL1D32
		40	2	CDB6sN1B40	CDB6sN1C40	CDB6sL1D40
		50	2	CDB6sL1B50	CDB6sL1C50	CDB6sL1D50
		63	2	CDB6sL1B63	CDB6sL1C63	CDB6sL1D63

Note: Width refers to multiple of 9 mm.

CDB6s 18mm Miniature Circuit Breaker

Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Function





Order Information

Type	Breaking Capacity (kA)	Rating (A)	Width	Reference		
				B curve	C curve	D curve
2P	**3**	1	4	CDB6sa2B1	CDB6sa2C1	CDB6sa2D1
		2	4	CDB6sa2B2	CDB6sa2C2	CDB6sa2D2
		3	4	CDB6sa2B3	CDB6sa2C3	CDB6sa2D3
		4	4	CDB6sa2B4	CDB6sa2C4	CDB6sa2D4
		5	4	CDB6sa2B5	CDB6sa2C5	CDB6sa2D5
		6	4	CDB6sa2B6	CDB6sa2C6	CDB6sa2D6
		8	4	CDB6sa2B8	CDB6sa2C8	CDB6sa2D8
		10	4	CDB6sa2B10	CDB6sa2C10	CDB6sa2D10
		13	4	CDB6sa2B13	CDB6sa2C13	CDB6sa2D13
		16	4	CDB6sa2B16	CDB6sa2C16	CDB6sa2D16
		20	4	CDB6sa2B20	CDB6sa2C20	CDB6sa2D20
		25	4	CDB6sa2B25	CDB6sa2C25	CDB6sa2D25
		32	4	CDB6sa2B32	CDB6sa2C32	CDB6sa2D32
		40	4	CDB6sa2B40	CDB6sa2C40	CDB6sa2D40
		50	4	CDB6sa2B50	CDB6sa2C50	CDB6sa2D50
		63	4	CDB6sa2B63	CDB6sa2C63	CDB6sa2D63
	4.5/6	1	4	CDB6sN2B1	CDB6sN2C1	CDB6sL2D1
		2	4	CDB6sN2B2	CDB6sN2C2	CDB6sL2D2
		3	4	CDB6sN2B3	CDB6sN2C3	CDB6sL2D3
		4	4	CDB6sN2B4	CDB6sN2C4	CDB6sL2D4
		5	4	CDB6sN2B5	CDB6sN2C5	CDB6sL2D5
		6	4	CDB6sN2B6	CDB6sN2C6	CDB6sL2D6
		8	4	CDB6sN2B8	CDB6sN2C8	CDB6sL2D8
		10	4	CDB6sN2B10	CDB6sN2C10	CDB6sL2D10
		13	4	CDB6sN2B13	CDB6sN2C13	CDB6sL2D13
		16	4	CDB6sN2B16	CDB6sN2C16	CDB6sL2D16
		20	4	CDB6sN2B20	CDB6sN2C20	CDB6sL2D20
		25	4	CDB6sN2B25	CDB6sN2C25	CDB6sL2D25
		32	4	CDB6sN2B32	CDB6sN2C32	CDB6sL2D32
		40	4	CDB6sN2B40	CDB6sN2C40	CDB6sL2D40
		50	4	CDB6sL2B50	CDB6sL2C50	CDB6sL2D50
		63	4	CDB6sL2B63	CDB6sL2C63	CDB6sL2D63

Note: Width refers to multiple of 9 mm.

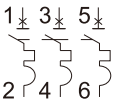
CDB6s 18mm Miniature Circuit Breaker

Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Function



Order Information

Type	Breaking Capacity (kA)	Rating (A)	Width	Reference		
				B curve	C curve	D curve
3P	**3**	1	6	CDB6sa3B1	CDB6sa3C1	CDB6sa3D1
		2	6	CDB6sa3B2	CDB6sa3C2	CDB6sa3D2
		3	6	CDB6sa3B3	CDB6sa3C3	CDB6sa3D3
		4	6	CDB6sa3B4	CDB6sa3C4	CDB6sa3D4
		5	6	CDB6sa3B5	CDB6sa3C5	CDB6sa3D5
		6	6	CDB6sa3B6	CDB6sa3C6	CDB6sa3D6
		8	6	CDB6sa3B8	CDB6sa3C8	CDB6sa3D8
		10	6	CDB6sa3B10	CDB6sa3C10	CDB6sa3D10
		13	6	CDB6sa3B13	CDB6sa3C13	CDB6sa3D13
		16	6	CDB6sa3B16	CDB6sa3C16	CDB6sa3D16
		20	6	CDB6sa3B20	CDB6sa3C20	CDB6sa3D20
		25	6	CDB6sa3B25	CDB6sa3C25	CDB6sa3D25
		32	6	CDB6sa3B32	CDB6sa3C32	CDB6sa3D32
		40	6	CDB6sa3B40	CDB6sa3C40	CDB6sa3D40
		50	6	CDB6sa3B50	CDB6sa3C50	CDB6sa3D50
		63	6	CDB6sa3B63	CDB6sa3C63	CDB6sa3D63
	4.5/6	1	6	CDB6sN3B1	CDB6sN3C1	CDB6sL3D1
		2	6	CDB6sN3B2	CDB6sN3C2	CDB6sL3D2
		3	6	CDB6sN3B3	CDB6sN3C3	CDB6sL3D3
		4	6	CDB6sN3B4	CDB6sN3C4	CDB6sL3D4
		5	6	CDB6sN3B5	CDB6sN3C5	CDB6sL3D5
		6	6	CDB6sN3B6	CDB6sN3C6	CDB6sL3D6
		8	6	CDB6sN3B8	CDB6sN3C8	CDB6sL3D8
		10	6	CDB6sN3B10	CDB6sN3C10	CDB6sL3D10
		13	6	CDB6sN3B13	CDB6sN3C13	CDB6sL3D13
		16	6	CDB6sN3B16	CDB6sN3C16	CDB6sL3D16
		20	6	CDB6sN3B20	CDB6sN3C20	CDB6sL3D20
		25	6	CDB6sN3B25	CDB6sN3C25	CDB6sL3D25
		32	6	CDB6sN3B32	CDB6sN3C32	CDB6sL3D32
		40	6	CDB6sN3B40	CDB6sN3C40	CDB6sL3D40
		50	6	CDB6sL3B50	CDB6sL3C50	CDB6sL3D50
		63	6	CDB6sL3B63	CDB6sL3C63	CDB6sL3D63

Note: Width refers to multiple of 9 mm.

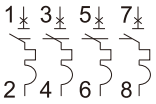
CDB6s 18mm Miniature Circuit Breaker

Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Function



Order Information



Type	Breaking Capacity (kA)	Rating (A)	Width	Reference		
				B curve	C curve	D curve
4P	3	1	8	CDB6sa4B1	CDB6sa4C1	CDB6sa4D1
		2	8	CDB6sa4B2	CDB6sa4C2	CDB6sa4D2
		3	8	CDB6sa4B3	CDB6sa4C3	CDB6sa4D3
		4	8	CDB6sa4B4	CDB6sa4C4	CDB6sa4D4
		5	8	CDB6sa4B5	CDB6sa4C5	CDB6sa4D5
		6	8	CDB6sa4B6	CDB6sa4C6	CDB6sa4D6
		8	8	CDB6sa4B8	CDB6sa4C8	CDB6sa4D8
		10	8	CDB6sa4B10	CDB6sa4C10	CDB6sa4D10
		13	8	CDB6sa4B13	CDB6sa4C13	CDB6sa4D13
		16	8	CDB6sa4B16	CDB6sa4C16	CDB6sa4D16
		20	8	CDB6sa4B20	CDB6sa4C20	CDB6sa4D20
		25	8	CDB6sa4B25	CDB6sa4C25	CDB6sa4D25
		32	8	CDB6sa4B32	CDB6sa4C32	CDB6sa4D32
		40	8	CDB6sa4B40	CDB6sa4C40	CDB6sa4D40
		50	8	CDB6sa4B50	CDB6sa4C50	CDB6sa4D50
		63	8	CDB6sa4B63	CDB6sa4C63	CDB6sa4D63
	4.5/6	1	8	CDB6sN4B1	CDB6sN4C1	CDB6sL4D1
		2	8	CDB6sN4B2	CDB6sN4C2	CDB6sL4D2
		3	8	CDB6sN4B3	CDB6sN4C3	CDB6sL4D3
		4	8	CDB6sN4B4	CDB6sN4C4	CDB6sL4D4
		5	8	CDB6sN4B5	CDB6sN4C5	CDB6sL4D5
		6	8	CDB6sN4B6	CDB6sN4C6	CDB6sL4D6
		8	8	CDB6sN4B8	CDB6sN4C8	CDB6sL4D8
		10	8	CDB6sN4B10	CDB6sN4C10	CDB6sL4D10
		13	8	CDB6sN4B13	CDB6sN4C13	CDB6sL4D13
		16	8	CDB6sN4B16	CDB6sN4C16	CDB6sL4D16
		20	8	CDB6sN4B20	CDB6sN4C20	CDB6sL4D20
		25	8	CDB6sN4B25	CDB6sN4C25	CDB6sL4D25
		32	8	CDB6sN4B32	CDB6sN4C32	CDB6sL4D32
		40	8	CDB6sN4B40	CDB6sN4C40	CDB6sL4D40
		50	8	CDB6sL4B50	CDB6sL4C50	CDB6sL4D50
		63	8	CDB6sL4B63	CDB6sL4C63	CDB6sL4D63

Note: Width refers to multiple of 9 mm.

CDB6s 18mm Miniature Circuit Breaker

Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

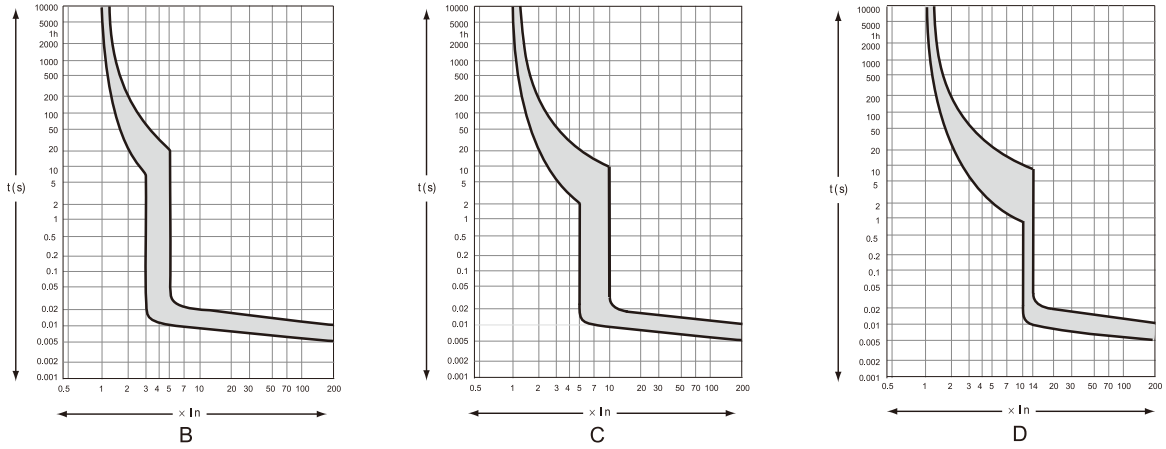
Technical Data

MCB	CDB6s 18mm Circuit Breaker				
Electrical Features	Standard	IEC 60898-1			
	Certification	KEMA CB CE			
	Poles	1-4P			
	Rated Current In	1, 2, 3, 4, 5, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 63A			
	Rated Voltage Ue	230/400V AC			
	Insulation Voltage Ui	500V			
	Breaking Capacity Icn				
	Rate current(A)	Breaking capacity Icn(kA)	Type	Poles	Voltage (V)
	1-63	3	B,C,D	1P 2P, 3P, 4P	230/400 400
	1-40	6	B,C	1P 2P, 3P, 4P	230/400 400
	50,63	4.5	B,C	1P 2P, 3P, 4P	230/400 400
	1-63	4.5	D	1P 2P, 3P, 4P	230/400 400
	Tripping Curve (see following tripping curve pictures)				
	B curve;the magnetic release operates between 3 and 5 In C curve;the magnetic release operates between 5 and 10 In D curve;the magnetic release operates between 10 and 14 In				
Mechanical Features	Electrical Durability	4000 times			
	Mechanical Durability	10000 times			
	Protection Degree	2			
	Tropicalization	treatment 2			
	Ambient Temperture	-5°C ~ +40°C			
Connection	Up to 25mm^2 cables				
Installation	Rate Current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)	
	1-63	M5	2.5	4.5	
Mounting	35mm Din-rail				
Accessories	Contact Accessory	OF			
	Fault-indicating Accessory	SD			
	Shunt-trip Release	MX+OF			

CDB6s 18mm Miniature Circuit Breaker

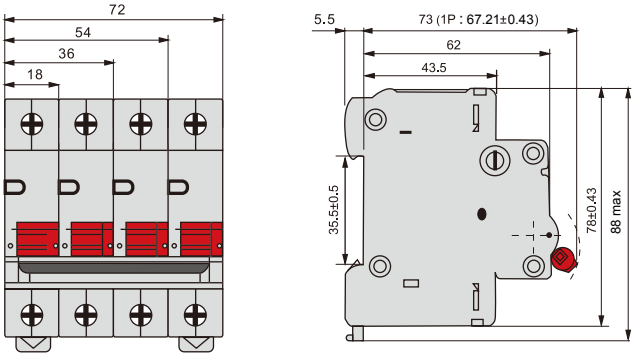
Standard: IEC 60898-1
Trip Curve: B, C and D curves
Breaking Capacity: 3000/4500/6000A

Tripping Curves

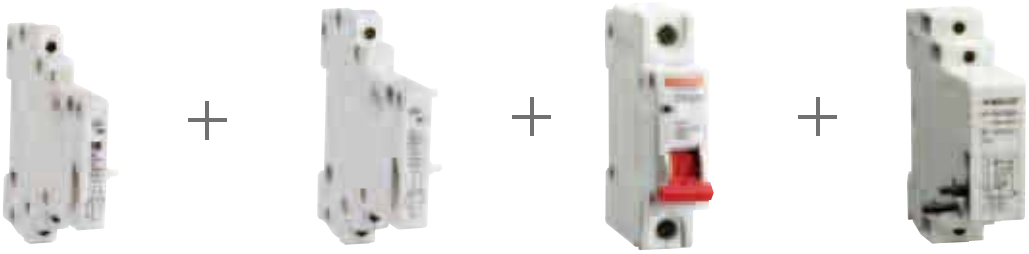


Overall Dimensions

Unit: mm



Accessory



SD + OF + CDB6s + MX+OF

CDB2 27mm Miniature Circuit Breaker

Standard: IEC 60947-2
Trip Curve: C and D curves
Breaking Capacity: 10000A

Function

CDB2 miniature circuit breaker combine the following functions:

- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Control
- Isolation

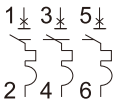
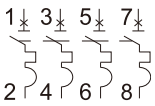
Order Information









Type	Rating (A)	Width (in mod.of 9mm)	Reference	
			C curve	D curve
1P 	63	3	CDB2H1C63	CDB2H1D63
	80	3	CDB2H1C80	CDB2H1D80
	100	3	CDB2H1C100	CDB2H1D100
	125	3	CDB2H1C125	CDB2H1D125
2P 	63	6	CDB2H2C63	CDB2H2D63
	80	6	CDB2H2C80	CDB2H2D80
	100	6	CDB2H2C100	CDB2H2D100
	125	6	CDB2H2C125	CDB2H2D125
3P 	63	9	CDB2H3C63	CDB2H3D63
	80	9	CDB2H3C80	CDB2H3D80
	100	9	CDB2H3C100	CDB2H3D100
	125	9	CDB2H3C125	CDB2H3D125
4P 	63	12	CDB2H4C63	CDB2H4D63
	80	12	CDB2H4C80	CDB2H4D80
	100	12	CDB2H4C100	CDB2H4D100
	125	12	CDB2H4C125	CDB2H4D125

CDB2 27mm Miniature Circuit Breaker

Standard: IEC 60947-2
Trip Curve: C and D curves
Breaking Capacity: 10000A

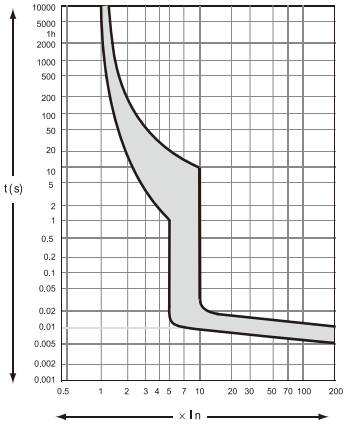
Technical Data

MCB	CDB2 27mm Circuit Breaker			
Electrical Features	Standard	IEC60947-2		
	Certification	CB, SEMKO, CE		
	Poles	1-4P		
	Rated Current In	63,80,100,125A		
	Rated Voltage Ue	230/400V AC		
	Insulation Voltage Ui	500V		
	Breaking Capacity Icn			
	Rating (A)	Poles	Voltage (V)	Breaking capacity (kA)
	63~125	1P	230	10
		2P,3P,4P	400	10
	Tripping Curve (see following tripping curve pictures)			
	C curve the magnetic release operates between 5 and 10 In D curve the magnetic release operates between 10 and 14 In			
Mechanical Features	Electrical Durability	1500 times(In≤100A),1000 times(In=125A)		
	Mechanical Durability	8500 times(In≤100A),7000 times(In=125A)		
	Protection Degree	2		
	Tropicalization	treatment 2		
	Ambient Temperature	-5°C ~ +40°C		
Connection	Up to 50mm^2 cables			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	63-125	M7	4	5.5
Mounting	35mm Din-rail			
Accessories	Contact Accessory:	OF		
	Shunt-trip Release:	MX+OF		

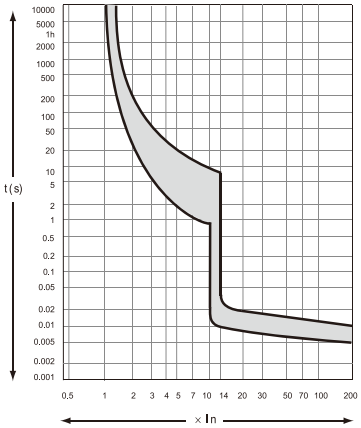
CDB2 27mm Miniature Circuit Breaker

Standard: IEC 60947-2
Trip Curve: C and D curves
Breaking Capacity: 10000A

Tripping Curves



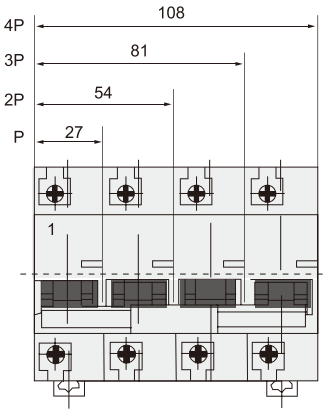
C

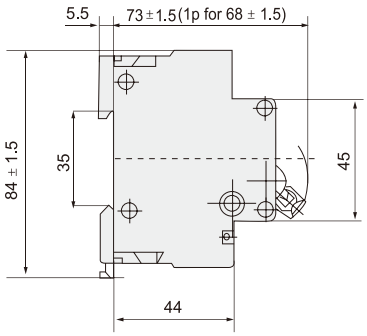


D

Overall Dimensions

Unit:mm





Accessories



MX+OF



OF



CDB2

CDB6p Phase-neutral Circuit Breaker

Standard: IEC 60898-1
Trip Curve: C curve
Breaking Capacity: 3000A

Function

CDB6p phase-neutral circuit breaker combine the following functions:

- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Control



Order Information

Type	Rating (A)	Width (in mod.of 9mm)	Reference C curve
1P+N 	6	2	CDB6pC6
	10	2	CDB6pC10
	16	2	CDB6pC16
	20	2	CDB6pC20
	25	2	CDB6pC25
	32	2	CDB6pC32

Technical Data

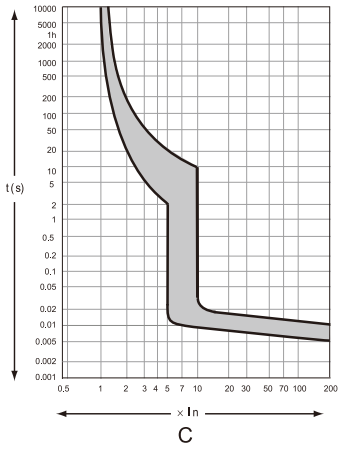
MCB	CDB6p Phase-neutral Circuit Breaker			
Electrical Features	Standard	IEC60898-1		
	Certification	CB		
	Poles	1P+N		
	Rated Current In	6,10,16,20,25,32A		
	Rated Voltage Ue	230V AC		
	Insulation Voltage Ui	500V		
	Breaking Capacity Icn	3KA		
	Tripping Curve (see following tripping curve pictures)			
	C curve:the magnetic release operates between 5 and 10In			
Mechanical Features	Electrical Durability	4000 times		
	Mechanical Durability	16000 times		
	Protection Degree	2		
	Tropicalization	treatment 2		
	Ambient Temperature	-5℃~+40℃		
Connection	Up to 10mm^2 cables			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	6-32	M4	2	3
Mounting	35mm Din-rail			

CDB6p Phase-neutral Circuit Breaker

Standard: IEC 60898-1
Trip Curve: C curve
Breaking Capacity: 3000A

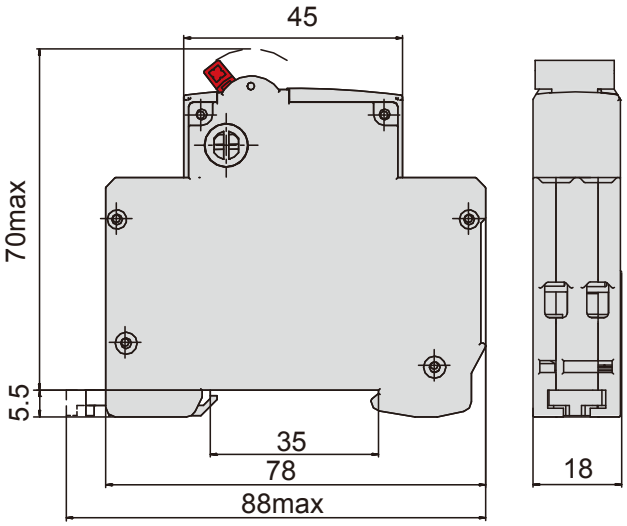
Tripping Curve

CDB6p Phase-neutral Circuit Breaker



Overall Dimensions

Unit:mm



CDB3 Phase-neutral Circuit Breaker

Standard: IEC 60898-1
Trip Curve: C curves
Breaking Capacity: 3000A

CE

Function

CDB3 phase-neutral circuit breakers combine the following functions:
- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Control
- Isolation



Order Information

Type	Rating (A)	Width (in mod.of 9mm)	Reference C curve
1P+N 	6	2	CDB3a5C6
	10	2	CDB3a5C10
	16	2	CDB3a5C16
	20	2	CDB3a5C20
	25	2	CDB3a5C25
	32	2	CDB3a5C32

Technical Data

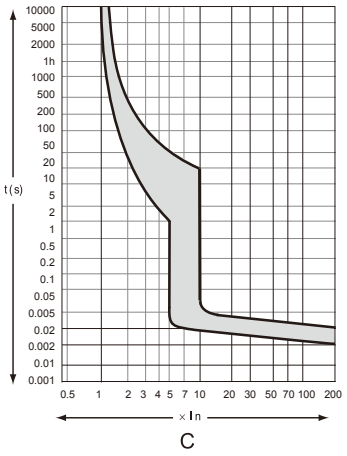
MCB	CDB3 18mm Circuit Breaker			
Electrical Features	Standard	IEC60898-1		
	Certification	CE		
	Poles	1P+N		
	Rated Current In	6,10,16,20,25,32A		
	Rated Voltage Ue	230V AC		
	Insulation Voltage Ui	500V		
	Breaking Capacity Icn	3KA		
	Tripping Curve (see following tripping curve pictures)			
	C curve:the magnetic release operates between 5 and 10In			
Mechanical Features	Electrical Durability	4000 times		
	Mechanical Durability	16000 times		
	Protection Degree	2		
	Tropicalization	treatment 2		
	Ambient Temperature	-5°C ~ +40°C		
Connection	Up to 10mm^2 cables			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	6-32	M4	2	3
Mounting	35mm Din-rail			

CDB3 Phase-neutral Circuit Breaker

Standard: IEC 60898-1
Trip Curve: C curves
Breaking Capacity: 3000A

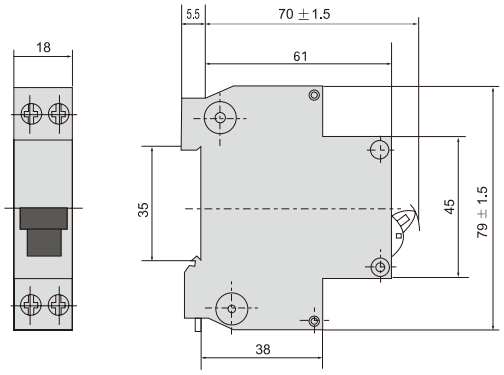
CE

Tripping Curves



Overall Dimensions

Unit: mm



CDB6IS Switch Disconnector

Standard: IEC 60947-3

Function

CDB6IS switch disconnectors combine the following functions:
- Making and breaking normal load circuits
- Isolation

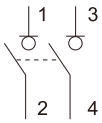
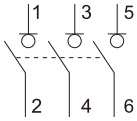
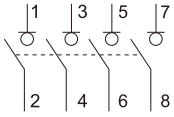
Order Information









Type	Rating (A)	Width (in mod.of 9mm)	Reference
1P 	20	2	CDB6IS120
	32	2	CDB6IS132
	63	2	CDB6IS163
	100	2	CDB6IS1100
	125	2	CDB6IS1125
2P 	20	4	CDB6IS220
	32	4	CDB6IS232
	63	4	CDB6IS263
	100	4	CDB6IS2100
	125	4	CDB6IS2125
3P 	20	6	CDB6IS320
	32	6	CDB6IS332
	63	6	CDB6IS363
	100	6	CDB6IS3100
	125	6	CDB6IS3125
4P 	20	8	CDB6IS420
	32	8	CDB6IS432
	63	8	CDB6IS463
	100	8	CDB6IS4100
	125	8	CDB6IS4125

CDB6IS Switch Disconnector

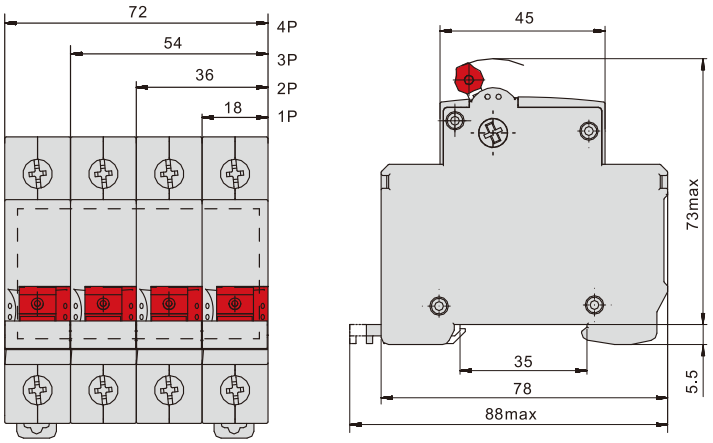
Standard: IEC 60947-3

Technical Data

Switch Disconnector	CDB6IS Switch Disconnector			
Electrical Features	Standard	IEC60947-3		
	Certification	CB,CE,SEMKO		
	Poles	1-4P		
	Rated Current In	20，32，63，100,125A		
	Rated Voltage Ue	230/400V AC		
	Insulation Voltage Ui	500V		
	Short-time Withstand Capacity for 1s	12Ie		
Mechanical Features	Electrical Durability	1500 times		
	Mechanical Durability	8500 times		
	Protection Degree	2		
	Ambient Temperature	－5°C ~ +40°C		
	Tropicalization	treatment 2		
Connection	Up to 50mm² cables			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	20-125	M7	4	5.5
Mounting	35mm Din-rail			

Overall Dimensions

Unit：mm



CDB5 Switch Disconnector

Standard: IEC 60947-3

Function

CDB5 switch disconnectors combine the following functions:
- Making and breaking normal load circuits
- Isolation

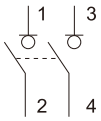
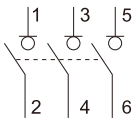
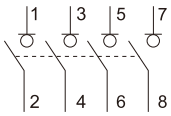
Order Information









Type	Voltage (V)	Rating (A)	Width (in mod.of 9mm)	Reference
1P 	230	20	2	CDB5120
		32	2	CDB5132
		63	2	CDB5163
		100	2	CDB51100
2P 	400	20	4	CDB5220
		32	4	CDB5232
		63	4	CDB5263
		100	4	CDB52100
3P 	400	20	6	CDB5320
		32	6	CDB5332
		63	6	CDB5363
		100	6	CDB53100
4P 	400	20	8	CDB5420
		32	8	CDB5432
		63	8	CDB5463
		100	8	CDB54100

CDB5 Switch Disconnector

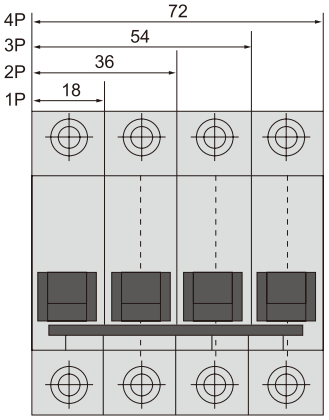
Standard: IEC 60947-3

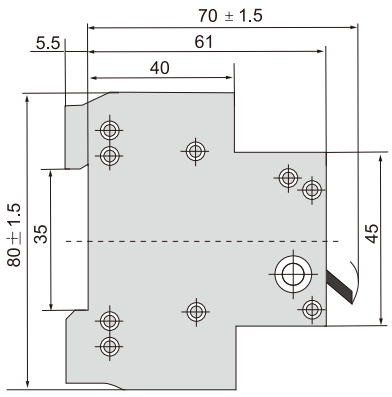
Technical Data

Switch Disconnector	CDB5 Switch Disconnector			
Electrical Features	Standard	IEC60947-3		
	Poles	1-4P		
	Rated Current In	20, 32, 63, 100A		
	Rated Voltage Ue	230/400V AC		
	Insulation Voltage Ui	500V		
	Rated Short-circuit Making Capacity	1066A(Ie:20~63A) 1692A(Ie:100A), Peak current		
	Short-time Withstand Capacity for 1s	756A(Ie:20~63A) 1200A(Ie:100A)		
Mechanical Features	Electrical Durability	1500 times		
	Mechanical Durability	8500 times		
	Protection Degree	2		
	Ambient Temperature	-5°C ~ +40°C		
	Tropicalization	treatment 2		
	Storage Temperature	-25°C ~+55°C		
Connection	Up to 50mm^2 cables			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	20-100	M7	4	5.5
Mounting	35mm Din-rail			

Overall Dimensions

Unit: mm





Residual Current Devices Overview

18mm RCBO



CDB6LE 29

Sensitivity: 30,50,100,200,300mA
In: 6-60A
Breaking Capacity: 3kA
Poles: 1P+N, 2P, 3P, 3P+N, 4P

Add-on RCD



CDB6v 32

Sensitivity: 30,100,300mA
In: V32A, V63A
Poles: 1P+N, 2P, 3P, 3P+N, 4P

27mm RCBO



CDB2LE 35

Sensitivity: 30,100,300mA
In: 63-100A
Breaking Capacity: 10kA
Poles: 1P+N, 2P, 3P, 3P+N, 4P

Phase-neutral RCBO



CDB6pLE 38

Sensitivity: 30mA
In: 6-40A
Breaking Capacity: 4.5kA
Poles: 1P+N



CDB3LE 40

Sensitivity: 30mA
In: 6-40A
Breaking Capacity: 4.5kA
Poles: 1P+N

RCCB



CDL7 42

Sensitivity:30,100,300mA
In: 25-100A
Poles: 2P,4P

CDB6LE Residual Current Operated Circuit Breaker

Standard: IEC 61009-1
Electronic type: AC
Breaking Capacity: 3000A
Sensitivity: 30,50,100,200,300mA

Function

CDB6LE electronic type residual current operated circuit breakers combine the following functions:

- Overload protection
- Protection against short-circuit current
- Protection for users against indirect contact
- Additional protection for users against direct contacts (30mA)
- Protection for electrical installations against insulation faults (fire hazard, etc)
- Isolation







Order Information

Type	Voltage (V)	Sensitivity (mA)	Rating (A)	Width	Reference	
					C curve	D curve
1P+N	230	30	6	5	CDB6LEa1C6S	CDB6LEa1D6S
			10	5	CDB6LEa1C10S	CDB6LEa1D10S
			16	5	CDB6LEa1C16S	CDB6LEa1D16S
			20	5	CDB6LEa1C20S	CDB6LEa1D20S
			25	5	CDB6LEa1C25S	CDB6LEa1D25S
			32	5	CDB6LEa1C32S	CDB6LEa1D32S
			40	6	CDB6LEa1C40S	CDB6LEa1D40S
			50	6	CDB6LEa1C50S	CDB6LEa1D50S
			60	6	CDB6LEa1C60S	CDB6LEa1D60S
2P	230	30	6	7	CDB6LEa2C6S	CDB6LEa2D6S
			10	7	CDB6LEa2C10S	CDB6LEa2D10S
			16	7	CDB6LEa2C16S	CDB6LEa2D16S
			20	7	CDB6LEa2C20S	CDB6LEa2D20S
			25	7	CDB6LEa2C25S	CDB6LEa2D25S
			32	7	CDB6LEa2C32S	CDB6LEa2D32S
			40	8	CDB6LEa2C40S	CDB6LEa2D40S
			50	8	CDB6LEa2C50S	CDB6LEa2D50S
			60	8	CDB6LEa2C60S	CDB6LEa2D60S
3P	400	30	6	10	CDB6LEa3C6S	CDB6LEa3D6S
			10	10	CDB6LEa3C10S	CDB6LEa3D10S
			16	10	CDB6LEa3C16S	CDB6LEa3D16S
			20	10	CDB6LEa3C20S	CDB6LEa3D20S
			25	10	CDB6LEa3C25S	CDB6LEa3D25S
			32	10	CDB6LEa3C32S	CDB6LEa3D32S
			40	12	CDB6LEa3C40S	CDB6LEa3D40S
			50	12	CDB6LEa3C50S	CDB6LEa3D50S
			60	12	CDB6LEa3C60S	CDB6LEa3D60S
3P+N	400	30	6	11	CDB6LEa6C6S	CDB6LEa6D6S
			10	11	CDB6LEa6C10S	CDB6LEa6D10S
			16	11	CDB6LEa6C16S	CDB6LEa6D16S
			20	11	CDB6LEa6C20S	CDB6LEa6D20S
			25	11	CDB6LEa6C25S	CDB6LEa6D25S
			32	11	CDB6LEa6C32S	CDB6LEa6D32S
			40	14	CDB6LEa6C40S	CDB6LEa6D40S
			50	14	CDB6LEa6C50S	CDB6LEa6D50S
			60	14	CDB6LEa6C60S	CDB6LEa6D60S

Note: 1. Width refers to multiple of 9 mm.
2. If the sensivitivity is 30mA,it's marked with "S" in the reference number.Aslo, 50mA is marked with "W",100mA is marked with "Y",200mA is marked with "R",300mA is marked with "T".

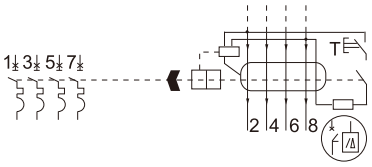
CDB6LE Residual Current Operated Circuit Breaker

Standard: IEC 61009-1
Electronic type: AC
Breaking Capacity: 3000A
Sensitivity: 30,50,100,200,300mA



Order Information

Type	Voltage (V)	Sensitivity (mA)	Rating (A)	Width	Reference	
					C curve	D curve
4P	400	30	6	13	CDB6LEa4C6S	CDB6LEa4D6S
			10	13	CDB6LEa4C10S	CDB6LEa4D10S
			16	13	CDB6LEa4C16S	CDB6LEa4D16S
			20	13	CDB6LEa4C20S	CDB6LEa4D20S
			25	13	CDB6LEa4C25S	CDB6LEa4D25S
			32	13	CDB6LEa4C32S	CDB6LEa4D32S
			40	16	CDB6LEa4C40S	CDB6LEa4D40S
			50	16	CDB6LEa4C50S	CDB6LEa4D50S
			60	16	CDB6LEa4C60S	CDB6LEa4D60S



Note: 1. Width refers to multiple of 9 mm.
2. If the sensivitivity is 30mA,it's marked with "S" in the reference number.Aslo, 50mA is marked with "W",100mA is marked with "Y",200mA is marked with "R",300mA is marked with "T".

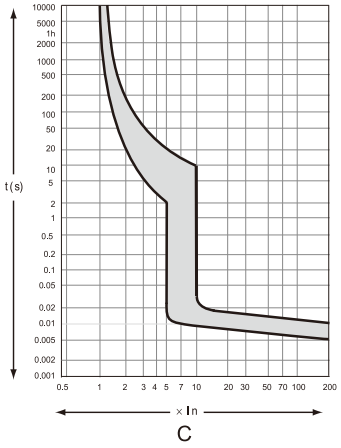
Technical Data

RCBO	CDB6LE Residual Current Operated Circuit Breaker			
Electrical Features	Electronic Type	IEC 61009-1		
	Poles	AC		
	Rated Current In	1P+N,2P,3P,3P+N,4P		
	Rated Voltage Ue	6,10,16,20,25,32,40,50,60A		
	Insulation Voltage Ui	230V AC for 1P+N/2P, 400V AC for 3P/3P+N/4P		
	Standard	500V		
	Breaking Capacity	3KA		
	Sensitivity	30,50,100,200,300mA		
	Tripping Curve(see following tripping curve pictures)			
	C curve:the magnetic release operates between 5 and 10			
	D curve:the magnetic release operates between 10 and 14			
Mechanical Features	Electrical Durability	2000 times		
	Mechanical Durability	2000 times		
	Protection Degree	2		
	Tropicalization	treatment 2		
	Ambient Temperature	-5°C ~ +40°C		
Connection	6-32A,Up to 16mm^2 cables, 40-60A,Up to 25mm^2 cables			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	6-32	M4	2.0	3.0
	40-60	M5	2.5	4.5
Mounting	35mm Din-rail			
Accessories	Contact Accessory:	OF		
	Fault-indicating Accessory:	SD		

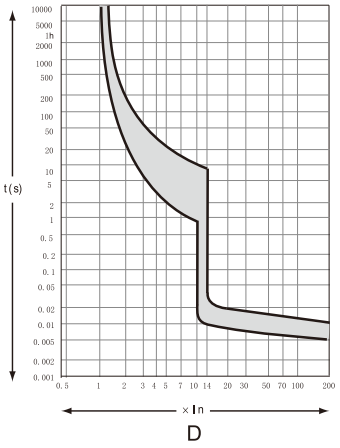
CDB6LE Residual Current Operated Circuit Breaker

Standard: IEC 61009-1
Electronic type: AC
Breaking Capacity: 3000A
Sensitivity: 30,50,100,200,300mA

Tripping Curves



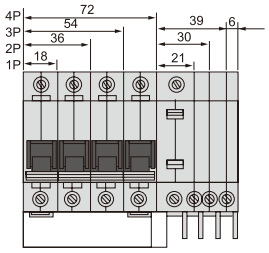
C

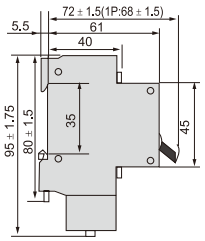


D

Overall Dimensions

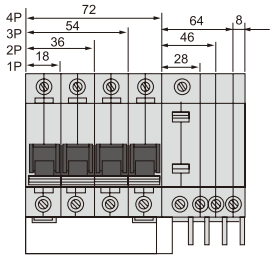
■ CDB6LE-32

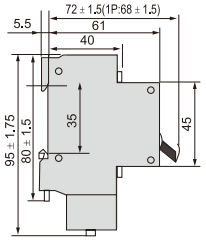




Unit:mm
4P: 72+45
3P+N: 54+45
3P: 54+36
2P: 36+27
1P+N: 18+27

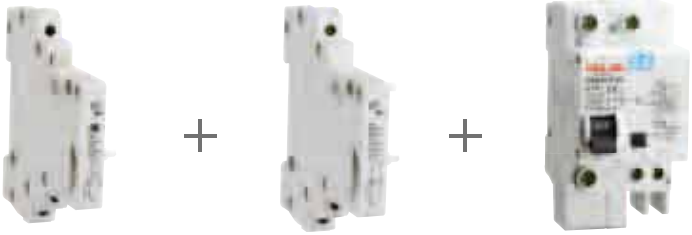
■ CDB6LE-60





Unit:mm
4P: 72+72
3P+N: 54+72
3P: 54+ 54
2P: 36+36
1P+N: 18+36

Accessories



SD **OF** **CDB6LE**

CDB6v Residual Current Protection Module

Standard: IEC 61009-1
Electronic type: AC
Sensitivity: 30,100,300mA

Function

CDB6v can be assembled with CDB6s to be residual current breaker overcurrent

- Protection of persons against indirect contacting
- Supplementary protection of persons against direct contacting
- Prevention of electric-caused fire
- Overvoltage protection by products marked "G"







Order Information

Frame	Type	Voltage (V)	Sensitivity (mA)	Width	Reference
V32	1P+N	230	30	5	CDB6v321N
			100	5	CDB6v321NR100
			300	5	CDB6v321NR300
	2P	400	30	7	CDB6v322P
			100	7	CDB6v322PR100
			300	7	CDB6v322PR300
	3P		30	10	CDB6v323P
			100	10	CDB6v323PR100
			300	10	CDB6v323PR300
	3P+N		30	11	CDB6v323N
			100	11	CDB6v323NR100
			300	11	CDB6v323NR300
	4P		30	13	CDB6v324P
			100	13	CDB6v324PR100
			300	13	CDB6v324PR300
V63	1P+N	230	30	6	CDB6v631N
			100	6	CDB6v631NR100
			300	6	CDB6v631NR300
	2P	400	30	8	CDB6v632P
			100	8	CDB6v632PR100
			300	8	CDB6v632PR300
	3P		30	12	CDB6v633P
			100	12	CDB6v633PR100
			300	12	CDB6v633PR300
	3P+N		30	14	CDB6v633N
			100	14	CDB6v633NR100
			300	14	CDB6v633NR300
	4P		30	16	CDB6v634P
			100	16	CDB6v634PR100
			300	16	CDB6v634PR300

Note: Width refers to mutultiple of 9mm.

CDB6v Residual Current Protection Module

Standard: IEC 61009-1
Electronic type: AC
Sensitivity: 30,100,300mA

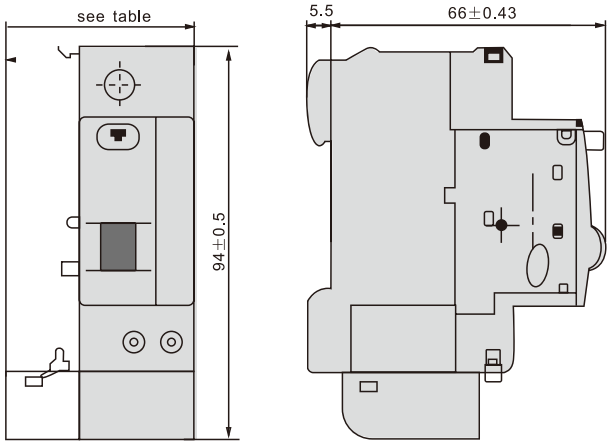
Technical Data

RCBO	CDB6v Residual Current Protection Module			
Electrical Features	Standard	IEC61009-1		
	Electronic Type	AC		
	Poles	1P+N, 2P, 3P, 3P+N, 4P		
	Rated Current In	V32 In≤32A V63 In≤63A		
	Rated Voltage Ue	230/400V AC		
	Rated Insulation Voltage	500V		
	Breaking Capacity	after CDB6s assembled with reference to CDB6s parameters		
	Sensitivity	30,100,300mA		
	Tripping Indication	On CDB6v is a residual opening current indication, which distinguish residual current from other faults		
	Manual Control	Manual control:allows for two kinds of reset CDB6v resets at the same time with breaker CDB6v resets before breaker		
	“G” products offer overvoltage protection	280V±5% AC,applicable to products with 1P+N and 2P		
Mechanical Features	Electrical Durability	2000 times(In≤25A) 1000times(In>25A)		
	Mechanical Durability	2000 times		
	Protection Degree	IP20		
	Tropicaliation	treatrment 2		
	Ambient Temperature	-5°C ~ +40°C		
Connection	-Up to 16mm^2 cables(V32) -Up to 25mm^2 cables(V63)			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	V32	M4	2.2	3.0
	V63	M5	2.5	4.5

CDB6v Residual Current Protection Module

Standard: IEC 61009-1
Electronic type: AC
Sensitivity: 30,100,300mA

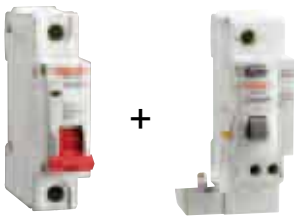
Overall Dimensions



Unit: mm

Pole	V32	V63
1P+N	45±0.32	54±0.37
2P	63±0.37	72±0.43
3P	90±0.5	108±0.57
3P+N	99±0.5	126±0.64
4P	117±0.57	144±0.72

Assembly



CDB6v can be assembled with CDB6s to be residual current breaker overcurrent

- Protection of persons against indirect contacting
- Supplementary protection of persons against direct contacting
- Prevention of electric-caused fire
- Overvoltage protection by products marked“G”

CDB2LE Residual Current Operated Circuit Breaker

Standard: IEC 60947-2
Electronic type: AC
Breaking Capacity: 10000A
Sensitivity: 30, 100, 300mA

Function

CDB2LE electronic type residual current operated circuit breakers combine the following functions:

- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Protection of users against indirect contact
- Protection of electrical installations against insulation faults (fire hazard, etc)
- Isolation







Order Information

Type	Width	Sensitivity (mA)	Rating (A)	Reference	
				C curve	D curve
1P+N	6	30	63	CDB2LEH1C63S	CDB2LEH1D63S
		30	80	CDB2LEH1C80S	CDB2LEH1D80S
		30	100	CDB2LEH1C100S	CDB2LEH1D100S
		100	63	CDB2LEH1C63Y	CDB2LEH1D63Y
		100	80	CDB2LEH1C80Y	CDB2LEH1D80Y
		100	100	CDB2LEH1C100Y	CDB2LEH1D100Y
		300	63	CDB2LEH1C63T	CDB2LEH1D63T
		300	80	CDB2LEH1C80T	CDB2LEH1D80T
		300	100	CDB2LEH1C100T	CDB2LEH1D100T
2P	9	30	63	CDB2LEH2C63S	CDB2LEH2D63S
		30	80	CDB2LEH2C80S	CDB2LEH2D80S
		30	100	CDB2LEH2C100S	CDB2LEH2D100S
		100	63	CDB2LEH2C63Y	CDB2LEH2D63Y
		100	80	CDB2LEH2C80Y	CDB2LEH2D80Y
		100	100	CDB2LEH2C100Y	CDB2LEH2D100Y
		300	63	CDB2LEH2C63T	CDB2LEH2D63T
		300	80	CDB2LEH2C80T	CDB2LEH2D80T
		300	100	CDB2LEH2C100T	CDB2LEH2D100T
3P	12	30	63	CDB2LEH3C63S	CDB2LEH3D63S
		30	80	CDB2LEH3C80S	CDB2LEH3D80S
		30	100	CDB2LEH3C100S	CDB2LEH3D100S
		100	63	CDB2LEH3C63Y	CDB2LEH3D63Y
		100	80	CDB2LEH3C80Y	CDB2LEH3D80Y
		100	100	CDB2LEH3C100Y	CDB2LEH3D100Y
		300	63	CDB2LEH3C63T	CDB2LEH3D63T
		300	80	CDB2LEH3C80T	CDB2LEH3D80T
		300	100	CDB2LEH3C100T	CDB2LEH3D100T
3P+N	12	30	63	CDB2LEH6C63S	CDB2LEH6D63S
		30	80	CDB2LEH6C80S	CDB2LEH6D80S
		30	100	CDB2LEH6C100S	CDB2LEH6D100S
		100	63	CDB2LEH6C63Y	CDB2LEH6D63Y
		100	80	CDB2LEH6C80Y	CDB2LEH6D80Y
		100	100	CDB2LEH6C100Y	CDB2LEH6D100Y
		300	63	CDB2LEH6C63T	CDB2LEH6D63T
		300	80	CDB2LEH6C80T	CDB2LEH6D80T
		300	100	CDB2LEH6C100T	CDB2LEH6D100T

Note: Width refers to multiple of 9mm .

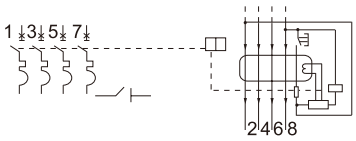
CDB2LE Residual Current Operated Circuit Breaker

Standard: IEC 60947-2
Electronic type: AC
Breaking Capacity: 10000A
Sensitivity: 30, 100, 300mA



Order Information

Type	Width	Sensitivity (mA)	Rating (A)	Reference	
				C curve	D curve
4P	15	30	63	CDB2LEH4C63S	CDB2LEH4D63S
		30	80	CDB2LEH4C80S	CDB2LEH4D80S
		30	100	CDB2LEH4C100S	CDB2LEH4D100S
		100	63	CDB2LEH4C63Y	CDB2LEH4D63Y
		100	80	CDB2LEH4C80Y	CDB2LEH4D80Y
		100	100	CDB2LEH4C100Y	CDB2LEH4D100Y
		300	63	CDB2LEH4C63T	CDB2LEH4D63T
		300	80	CDB2LEH4C80T	CDB2LEH4D80T
		300	100	CDB2LEH4C100T	CDB2LEH4D100T



Note: Width refers to multiple of 9mm .

Technical Data

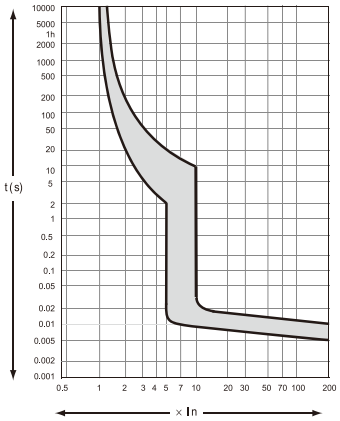
RCBO	CDB2LE Residual Current Operated Circuit Breaker			
Electrical Features	Standard	IEC60947-2		
	Electronic Type	AC		
	Poles	1P+N,2P,3P,3P+N,4P		
	Rated Current In	63,80,100A		
	Rated Voltage Ue	230V for 1P+N; 400V for 2P/3P/3P+N/4P		
	Insulation Voltage	500V		
	Breaking Capacity Ui	10KA		
	Sensitivity	30,100,300mA		
	Tripping Curve (see following tripping curve pictures)			
	C curve:the magnetic release operated between 5 and 10 In D curve:the magnetic release operated between 10 and 14 In			
Mechanical Features	Electrical Durability	1500 times		
	Mechanical Durability	8500 times		
	Protection Degree	2		
	Tropicalization	treatment 2		
	Ambient Temperature	-5°C ~ +40°C		
Connection	Up to 50mm^2 cables			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	63-100	M7	4	5.5
Accessories	Contact Accessory:	OF		
	Shunt -trip Release:	MX+OF		

CDB2LE Residual Current Operated Circuit Breaker

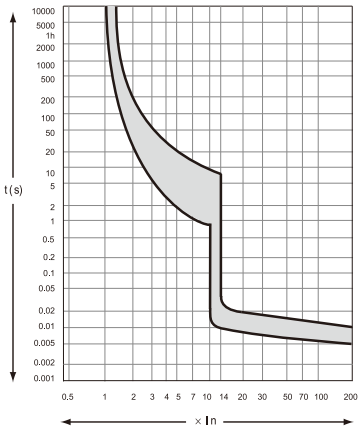
Standard: IEC 60947-2
Electronic type: AC
Breaking Capacity: 10000A
Sensitivity: 30, 100, 300mA

Tripping Curve

CDB2LE Residual Current Operated Circuit Breaker



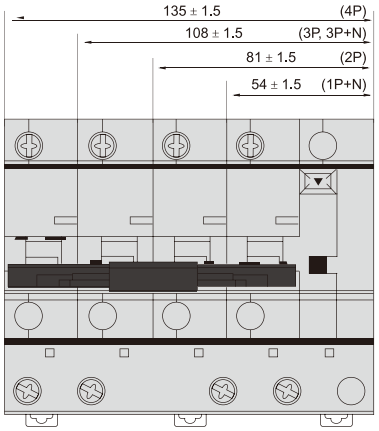
C

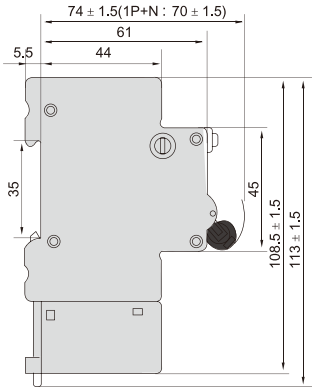


D

Overall Dimensions

Unit:mm





Accessories



MX+OF



OF



CDB2LE

CDB6pLE Residual Current Operated Circuit Breaker

Standard: IEC 61009-1
Electronic type: AC
Breaking Capacity: 4500A
Sensitivity: 30mA

Function

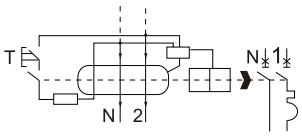


CDB6pLE electronic type residual current operated circuit breakers combine the following functions:

- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Protection of users against indirect contact
- Additional protection for users against direct contacts (30mA)
- Protection of electrical installations against insulation faults (fire hazard, etc)
- Isolation

Order Information

Type	Width (mm)	Rating(A)	Reference C curve
1P+N	36	6	CDB6pLEC6
		10	CDB6pLEC10
		16	CDB6pLEC16
		20	CDB6pLEC20
		25	CDB6pLEC25
		32	CDB6pLEC32
		40	CDB6pLEC40



Technical Data

RCBO	CDB6pLE Residual Current Operated Circuit Breaker	
Electrical Features	Standard	IEC61009-1
	Certification	CB
	Electronic Type	AC
	Poles	1P+N
	Rated Current In	6,10,16,20,25,32,40A
	Rated Voltage Ue	230V AC
	Insulation Voltage Ui	500V
	Breaking Capacity	4.5KA
	Sensitivity	30mA
	Tripping Curve (see following tripping curve pictures)	
	C curve:the magnetic release operates between 5 and 10 In	
Mechanical Features	Electrical Durability	2000 times
	Mechanical Durability	4000 times
	Protection Degree	2
	Tropicalization	treatment 2
	Ambient Temperature	-5℃~+40℃
Connection	Up to 25mm^{2}cables	

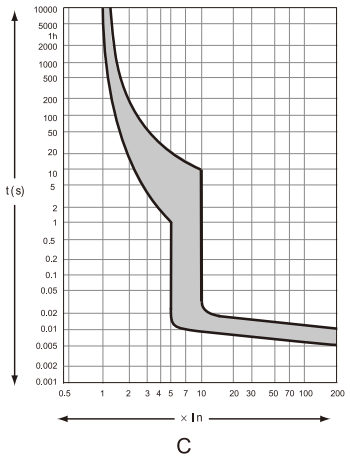
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	6-40	M5	2.5	4.5
Mounting	35mm Din-rail			

CDB6pLE Residual Current Operated Circuit Breaker

Standard: IEC 61009-1
Electronic type: AC
Breaking Capacity: 4500A
Sensitivity: 30mA

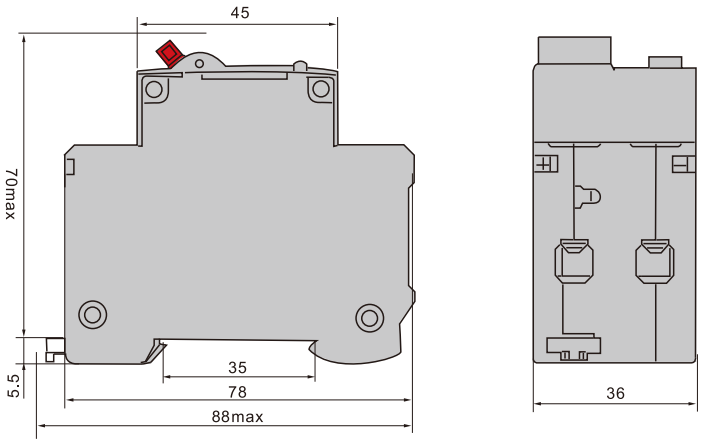
Tripping Curve

CDB6pLE Residual Current Operated Circuit Breaker



Overall Dimensions

Unit:mm



CDB3LE Residual Current Operated Circuit Breaker

Standard: IEC 61009-1
Electronic type: AC
Breaking Capacity: 4500A
Sensitivity: 30mA

Function

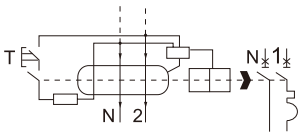
CDB3LE electronic type residual current operated circuit breakers combine the following functions:

- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Protection of users against indirect contact
- Additional protection for users against direct contacts (30mA)
- Protection of electrical installations against insulation faults (fire hazard, etc)
- Isolation



Order Information

Type	Width (mm)	Rating(A)	Reference C curve
1P+N	36	6	CDB3LEL5C6S
		10	CDB3LEL5C10S
		16	CDB3LEL5C16S
		20	CDB3LEL5C20S
		25	CDB3LEL5C25S
		32	CDB3LEL5C32S
		40	CDB3LEL5C40S



Technical Data

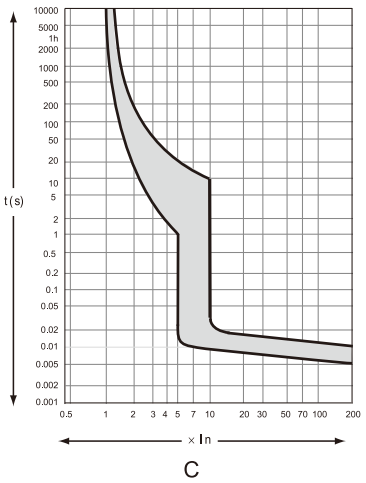
RCBO	CDB3LE Residual Current Operated Circuit Breaker			
Electrical Features	Standard	IEC61009-1		
	Electronic Type	AC		
	Poles	1P+N		
	Rated Current In	6,10,16,20,25,32,40A		
	Rated Voltage Ue	230V AC		
	Insulation Voltage Ui	500V		
	Breaking Capacity	4.5KA		
	Sensitivity	30mA		
	Tripping Curve (see following tripping curve pictures)			
	C curve:the magnetic release operates between 5 and 10 In			
Mechanical Features	Electrical Durability	2000 times		
	Mechanical Durability	2000 times		
	Protection Degree	2		
	Tropicalization	treatment 2		
	Ambient Temperature	-5°C ~ +40°C		
Connection	Up to 16mm^2 cables			
Installation	Rate current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)
	6-40	M5	2.5	4.5
Mounting	35mm Din-rail			

CDB3LE Residual Current Operated Circuit Breaker

Standard: IEC 61009-1
Electronic type: AC
Breaking Capacity: 4500A
Sensitivity: 30mA

Tripping Curve

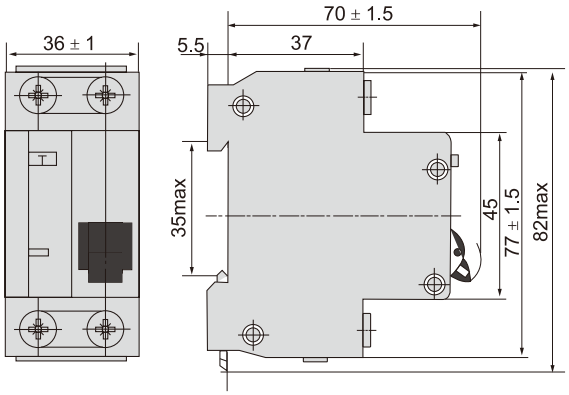
CDB3LE Residual Current Operated Circuit Breaker



C

Overall Dimensions

Unit:mm



CDL7 Electromagnetic Type Residual Current Switch

Standard: IEC 61008
RCCB Type: A , AC
Sensitivity: 30, 100, 300mA

Function

CDL7 electromagnetic type residual current switch combine the following functions:

- Protection for users against indirect contact
- Additional protection for users against direct contacts (30mA)
- Protection for electrical installations against insulation faults (fire hazard, etc)





Order Information

Type	Width (in mod.of 9mm)	Rating (A)	Sensitivity (mA)	Reference	
				A type	AC type
2P	4	10	30	CDL7210SA	CDL7210SC
			100	CDL7210YA	CDL7210YC
			300	CDL7210TA	CDL7210TC
		16	30	CDL7216SA	CDL7216SC
			100	CDL7216YA	CDL7216YC
			300	CDL7216TA	CDL7216TC
		25	30	CDL7225SA	CDL7225SC
			100	CDL7225YA	CDL7225YC
			300	CDL7225TA	CDL7225TC
		40	30	CDL7240SA	CDL7240SC
			100	CDL7240YA	CDL7240YC
			300	CDL7240TA	CDL7240TC
		63	30	CDL7263SA	CDL7263SC
			100	CDL7263YA	CDL7263YC
			300	CDL7263TA	CDL7263TC
		80	30	CDL7280SA	CDL7280SC
			100	CDL7280YA	CDL7280YC
			300	CDL7280TA	CDL7280TC
		100	30	CDL72100SA	CDL72100SC
			100	CDL72100YA	CDL72100YC
			300	CDL72100TA	CDL72100TC
4P	8	10	30	CDL7410SA	CDL7410SC
			100	CDL7410YA	CDL7410YC
			300	CDL7410TA	CDL7410TC
		16	30	CDL7416SA	CDL7416SC
			100	CDL7416YA	CDL7416YC
			300	CDL7416TA	CDL7416TC
		25	30	CDL7425SA	CDL7425SC
			100	CDL7425YA	CDL7425YC
			300	CDL7425TA	CDL7425TC
		40	30	CDL7440SA	CDL7440SC
			100	CDL7440YA	CDL7440YC
			300	CDL7440TA	CDL7440TC
		63	30	CDL7463SA	CDL7463SC
			100	CDL7463YA	CDL7463YC
			300	CDL7463TA	CDL7463TC
		80	30	CDL7480SA	CDL7480SC
			100	CDL7480YA	CDL7480YC
			300	CDL7480TA	CDL7480TC
		100	30	CDL74100SA	CDL74100SC
			100	CDL74100YA	CDL74100YC
			300	CDL74100TA	CDL74100TC

CDL7 Electromagnetic Type Residual Current Switch

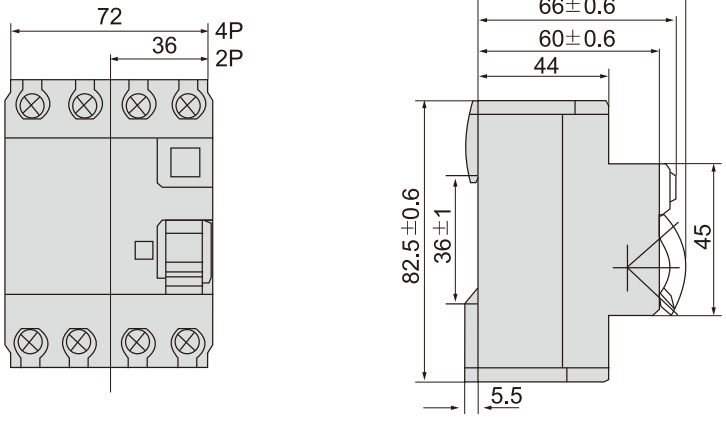
Standard: IEC 61008
RCCB Type: A , AC
Sensitivity: 30, 100, 300mA

Technical Data

RCCB	CDL7 Electromagnetic Type Residual Current Switch			
Electrical Features	Standard	IEC61008		
	Certification	KEMA, CB		
	Type	AC, A		
	Poles	2P, 4P		
	Rated Current In	10,16,25,40,63,80,100A		
	Rated Voltage Ue	230/400V AC		
	Insulation Voltage Ui	500V		
	Sensitivity	30,100,300mA		
Mechanical Features	Electrical Durability	1000 times		
	Mechanical Durability	2000 times		
	Overload or Short Circuit Protection	no		
	Tripping Indication	Instantaneous, rated residual operated current unadjustable		
	Fault Curren Indicator	Mechanical indication in the front		
	Protection Degree	2		
	Tropicalization	Treatment 2		
	Ambient Temperature	-25°C ~ +40°C		
Connection	Up to 16mm^2 cables (In≤63A)		Up to 35mm^2 cables (In>63A)	
Installation	Rate current(A)	Rate current(A)	Rate current(A)	Rate current(A)
	25-100	M5	2.0	4.5
Mounting	35mm Din-rail			
Power source Auxilary	Not need			

Overall Dimensions

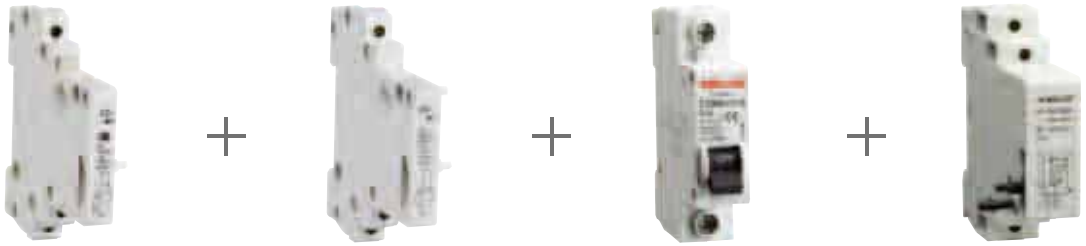
Unit:mm



Accessory

CDB6,CDB6LE

The sketch map of installation with breakers



SD　　OF　　Breaker　　MX+OF

Remote Control Auxiliaries

- ■ **OF contact auxiliary**
- □ Indicate ON or OFF state of the breaker
- □ Basic type of auxiliary contact:1NO+1NC
- □ Connection: 1-4mm^2 cables

- ■ **SD fault-indicating switch**
- □ Sent out fault signal on the font when breaking down
- □ Indicator on the front to show fault trip
- □ Basic type of auxiliary contact:1NO+1NC
- □ Connection: 1-4mm^2 cables

Tripping Device

- ■ **MX+OF shunt trip release**
- □ Indicate ON or OFF state of the breaker
- □ Make the assembled breaker trip once got signal
- □ Basic type of auxiliary contact:1NO+1NC
- □ Connection: 1-4mm^2 cables

Introductions

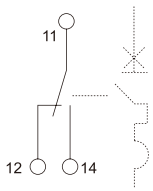
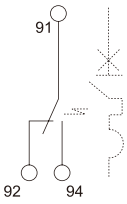
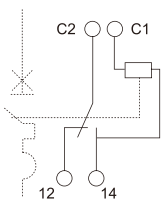
- ■ OF, SD must be assembled on the left ,one auxiliary only
- ■ Each time only one auxiliary accepted in the left of MCB
- ■ MX+OF must be assembled on the right, one MX+OF only
- ■ CDB6LE can't assemble MX+OF







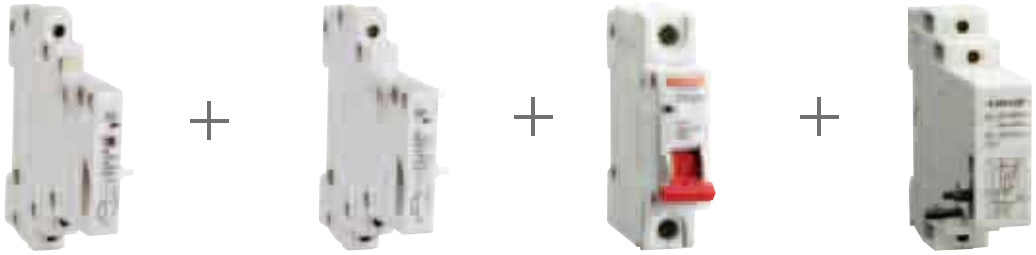
Order Information

type		Width(mm)	Voltage(V)	Reference
OF		9		CDB6OF
SD		9		CDB6SD
MX+OF		18	AC/DC 12V	CDB6MX12
		18	AC/DC 24V	CDB6MX24
		18	AC/DC 48V	CDB6MX48
		18	AC 110V	CDB6MX110
		18	AC 130V	CDB6MX130
		18	AC 230V	CDB6MX230
		18	AC 400V	CDB6MX400

Accessory

CDB6s

The sketch map of installation with breakers



SD + OF + CDB6s + MX+OF

Remote Control Auxiliaries

- **OF contact auxiliary**
- Indicate ON or OFF state of the breaker
- Basic type of auxiliary contact:1NO+1NC
- Connection：1-4mm^2 cables

- **SD fault-indicating switch**
- Sent out fault signal when breaking down
- Indicator on the front to show fault trip
- Basic type of auxiliary contact:1NO+1NC
- Connection:1-4mm^2 cables

Tripping Device

- **MX+OF shunt trip release**
- Indicate ON or OFF state of the breaker
- Make the assembled breaker trip while given signal
- Basic type of auxiliary contact:1NO+1NC
- Connection:1-4mm^2 cables

Introductions

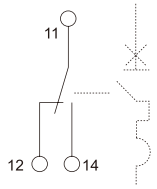
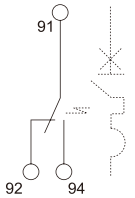
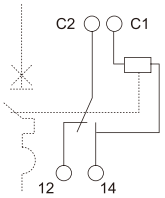
- OF, SD must be assembled on the left ,one auxiliary only
- Each time only one auxiliary accepted in the left of MCB
- MX+OF must be assembled on the right, one MX+OF only
- CDB6s can't assemble MX+OF while assembled with CDB6v







Order Information

type		Width(mm)	Voltage(V)	Reference
OF		9		CDB6sOF
SD		9		CDB6sSD
MX+OF		18	AC/DC12-24V	CDB6sMX24
		18	AC/DC24-48V	CDB6sMX48
		18	AC110-127V	CDB6sMX110
		18	AC230-400V	CDB6sMX230

Accessory

CDB2,CDB2LE

The sketch map of installation with breakers



MX+OF　　OF　　Breaker

Remote Control Auxiliaries

- **OF contact auxiliary**
- Indicate ON or OFF state of the breaker
- Basic type of auxiliary contact:2NO+2NC
- Connection: 1-4mm^2 cables

Introductions

- MX+OF, OF must be assembled on the left
- Each time only one auxiliary accepted in the left of MCB

Tripping Device

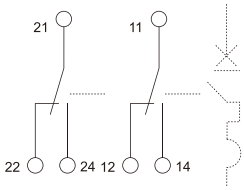
- **MX+OF shunt trip release**
- Indicate ON or OFF state of the breaker
- Make the assembled breaker trip once got signal
- Basic type of auxiliary contact:1NO+1NC
- Connection: 1-4mm^2 cables

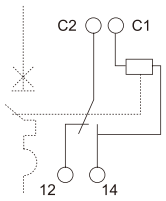




Order Information

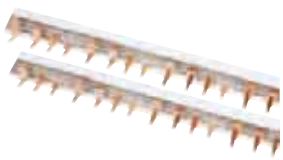
Type	Width(mm)	Description	Reference
OF	18	1NO 1NC	CDB2OF11
	18	2NO 2NC	CDB2OF22
MX+OF	18	AC/DC24V	CDB2MX24
	18	AC48V~130V DC48V	CDB2MX48
	18	AC230V-400V DC110V-130V	CDB2MX230





Accessory

Busbar



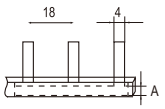
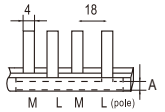
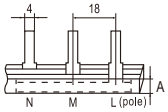
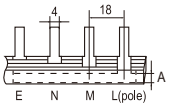
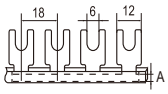
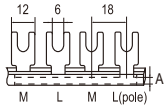
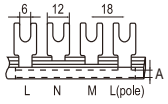
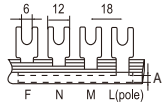


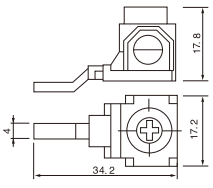


Technical Data

Standard	IEC 60664
Material of busbar	E-CU-F25
Material of insulation	PVC
Short-circuit strength	50kA
Nominal voltage	415V
Operating voltage	Max 500V
Surge voltage	4kV
Clima stability	IEC 60068-2

Order Information

Type	Pole	Thickness of pin (mm)	Section cross (mm^2)	Max. current(A) End feed-in	A	Length	Reference	Dimension(mm)
PIN-TYPE	1	1.5	10	63	7	1m	CBB16315P	
		1.5	16	80	11	1m	CBB18015P	
	2	1.5	10	63	7	1m	CBB26315P	
		1.5	16	80	11	1m	CBB28015P	
	3	1.5	10	63	7	1m	CBB36315P	
		1.5	16	80	11	1m	CBB38015P	
	4	1.5	10	63	7	1m	CBB46315P	
		1.5	16	80	11	1m	CBB48015P	
U-TYPE	1	1.5	10	63	7	1m	CBB16315F	
		1.5	16	80	11	1m	CBB18015F	
	2	1.5	10	63	7	1m	CBB26315F	
		1.5	16	80	11	1m	CBB28015F	
	3	1.5	10	63	7	1m	CBB36315F	
		1.5	16	80	11	1m	CBB38015F	
	4	1.5	10	63	7	1m	CBB46315F	
		1.5	16	80	11	1m	CBB48015F	

Type	Reference	Dimension(mm)
Terminal Adaptor	CBBA805	

CDCH8 Modular Contactor

Standard: IEC 61095

Function

CDCH8 Modular Contactor provide:

- Automatic control on equipment in buildings
- Switch on or Swith off lighting or other equipments



Order Information

Pole	Current (A)	Voltage (V)	Reference
2P	20	220V	CDCH8202M
		230V	CDCH8202N
	25	220V	CDCH8252M
		230V	CDCH8252N

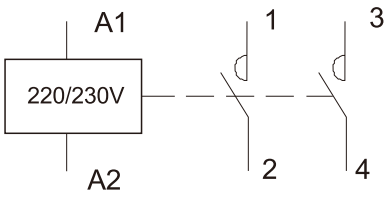
Technical Data

Building Control Command Devices	CDCH8 Modular Contactor	
Standard	IEC 61095	
Certification	KEMA CE CB	
Type	AC-7a	AC-7b
Rated Voltage Ue	230V AC	
Rated Insulation Voltage Ui	500V AC	
Conventional Thermal Current(I)	20A/25A	
Rated Current(Ie)	20A/25A	9A/10A
Rated power	4kw/5.4kw	1.2kw/1.4kw
Operation Frequency	1200times/h	30times/h
Operation Time	≥30000times	
Making&Breaking capacity	1.5Ie	8Ie
With stand Overcurrent Capacity	AC-7b,8Ie,10S	
Short-circuit Protection	Adapted to fuse :RT18-32X/32 Adapted to breaker :CDB6s-63/C32	
Ambient Temperature	-5°C ~ +40°C	
Connection	Both 1 and 2 lines can be used CDCH8-20 1~2.5mm^2, CDCH8-25,1~4mm^2	
Techenical Data of Coil		
Coil Voltage(Us)	220/230V AC	
Allowable Voltage of Controlloop(V)	Operating:85%~110%Us Release:20%~75%Us	
Rated Power of Coil	Start:16VA Holding:4VA Working power:1.4W	

CDCH8 Modular Contactor

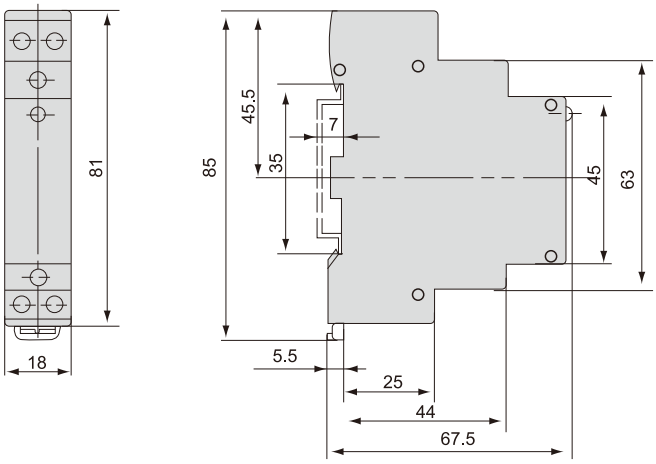
Standard: IEC 61095

Wiring Diagram



Overall Dimensions

Unit: mm



CDRT8 Time Relay

Standard:IEC 60947.5

Function

CDRT8 Time Relay provide:

- Disconnect Delay
- Connect Delay



Order Information

Limit delay time	Delay type	Reference
10s	power delay	CDRT810B
120s	power delay	CDRT8120B
480s	power delay	CDRT8480B
480s	off delay	CDRT8480A

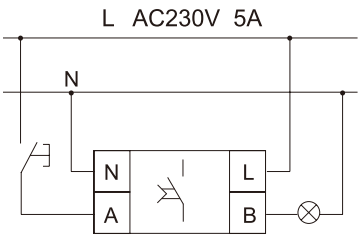
Technical Data

Building Control Command Devices	CDRT8 Time Relay
Standard	IEC 60947.5
Rated Voltage Ue	230V AC
Rated Current(Ie)	5A
Delay Type	Off dalay Power delay
Limit Delay Time	10s 120s 480s
Conventional Thermal Current(I^{th})	8A
Timing Range	0.1-10s(≤10s) 10-120s(≤120s) 30-480s(≤480s)
Contact Type	Normally open contact
Contact Number	1
Rated Control Supply Voltage(Us)	230V AC
Operating Voltage Range	85%-110%Us
Electrical Durability	30000 times
Rated Wattage	＜1W
Insulation Resistance	＞1.5MΩ
Insulation Strength	To each:AC 1760V 5s Disconnect between the contact position:AC 1000V 1min
Connection	up to 1mm^2 cables

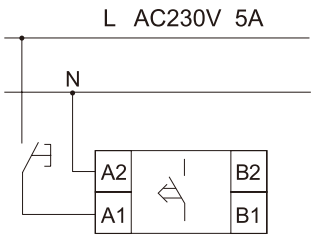
CDRT8 Time Relay

Standard:IEC 60947.5

Wiring Diagram



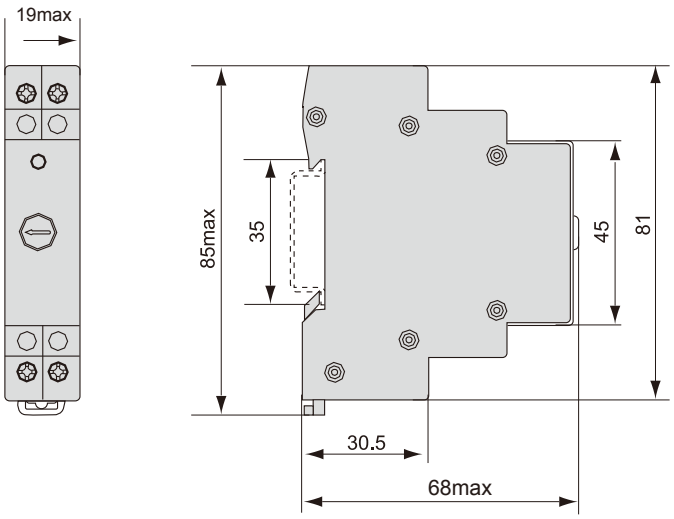
CDRT8-480A



CDRT8-10B, 120B, 480B

Overall Dimensions

Unit: mm



CDY1 Surge Protective Devices

Standard: IEC61643

Function

CDY1 surge protective devices provide:

- Applicable to household appliances and the like to offer protection
- When there is an over-voltage caused by either lightning strike or operation in the circuit

Order Information

Imax (kA)	Uc (V)	Up (kV)	Reference					
			1P	2P	3P	4P	1P+N	3P+N
20	275	1.3	CDY1201275	CDY1202275	CDY1203275	CDY1204275	CDY1205275	CDY1206275
	385	1.5	CDY1201385	CDY1202385	CDY1203385	CDY1204385	CDY1205385	CDY1206385
	420	1.8	CDY1201420	CDY1202420	CDY1203420	CDY1204420	CDY1205420	CDY1206420
40	275	1.5	CDY1401275	CDY1402275	CDY1403275	CDY1404275	CDY1405275	CDY1406275
	385	1.8	CDY1401385	CDY1402385	CDY1403385	CDY1404385	CDY1405385	CDY1406385
	420	2.0	CDY1401420	CDY1402420	CDY1403420	CDY1404420	CDY1405420	CDY1406420
60	275	1.8	CDY1601275	CDY1602275	CDY1603275	CDY1604275	CDY1605275	CDY1606275
	385	2.2	CDY1601385	CDY1602385	CDY1603385	CDY1604385	CDY1605385	CDY1606385
	420	2.5	CDY1601420	CDY1602420	CDY1603420	CDY1604420	CDY1605420	CDY1606420
80	275	2.0	CDY1801275	CDY1802275	CDY1803275	CDY1804275	CDY1805275	CDY1806275
	385	2.2	CDY1801385	CDY1802385	CDY1803385	CDY1804385	CDY1805385	CDY1806385
	420	2.5	CDY1801420	CDY1802420	CDY1803420	CDY1804420	CDY1805420	CDY1806420
100	275	2.2	CDY11001275	CDY11002275	CDY11003275	CDY11004275	CDY11005275	CDY11006275
	385	2.5	CDY11001385	CDY11002385	CDY11003385	CDY11004385	CDY11005385	CDY11006385
	420	2.5	CDY11001420	CDY11002420	CDY11003420	CDY11004420	CDY11005420	CDY11006420

CDY1 Surge Protective Devices

Standard: IEC61643



Technical Data

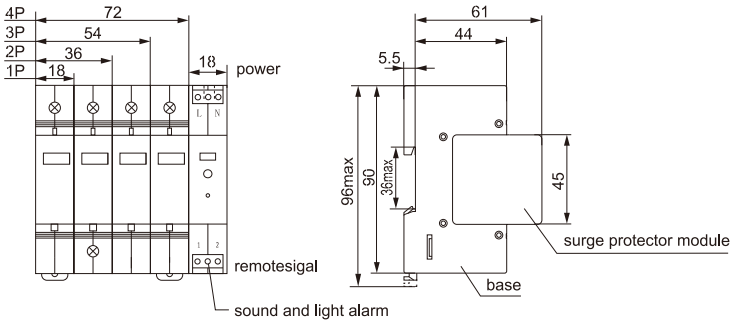
Type	CDY1-20			CDY1-40			CDY1-60			CDY1-80			CDY1-100		
Pole	1P, 1P+N, 2P, 3P, 3P+N, 4P														
Nominal discharge current In(8/20us) kA	10			20			30			40			50		
Maximum discharge current Imax(8/20us) kA	20			40			60			80			100		
Maximum continuous operational voltage Uc V	275	385	420	275	385	420	275	385	420	275	385	420	275	385	420
Protection level Up kV	1.3	1.5	1.8	1.5	1.8	2.0	1.8	2.2	2.5	2.0	2.2	2.5	2.2	2.5	2.5
Leakage current (75%Uc 1mA) uA	⩽20														
Response time ns	⩽25														

- Standard: IEC 61643
- Certification: SEMKO, CB

Overall Dimensions

Unit: mm





CDY1-20 40 60

CDPZ50 Series Consumer Box

Standard: IEC60439-1　IEC60670

Function

CDPZ50 series Consumer Box provide:

- Protection against overload
- Protection against over voltage
- Protection against leakage



Order Information

Material	Installation	No. of loop	Reference
Metal box&Plastic Cover	Surface installation	6	CDPZ50M6
		8	CDPZ50M8
		12	CDPZ50M12
		16	CDPZ50M16
		20	CDPZ50M20
		24	CDPZ50M24
	Flush installation	6	CDPZ50R6
		8	CDPZ50R8
		12	CDPZ50R12
		16	CDPZ50R16
		20	CDPZ50R20
		24	CDPZ50R24
Material	Installation	No. of loop	Reference
Full plastic (fire-retardancy)	Surface installation	4	CDPZ50PM4IP30F
		6	CDPZ50PM6IP30F
		8	CDPZ50PM8IP30F
		12	CDPZ50PM12IP30F
		15	CDPZ50PM15IP30F
		18	CDPZ50PM18IP30F
		24	CDPZ50PM24IP30F
		36	CDPZ50PM36IP30F
	Flush installation	4	CDPZ50PR4IP30F
		6	CDPZ50PR6IP30F
		8	CDPZ50PR8IP30F
		12	CDPZ50PR12IP30F
		15	CDPZ50PR15IP30F
		18	CDPZ50PR18IP30F
		24	CDPZ50PR24IP30F
		36	CDPZ50PR36IP30F
Full plastic (Non fire-retardancy)	Surface installation	4	CDPZ50PM4IP30NF
		6	CDPZ50PM6IP30NF
		8	CDPZ50PM8IP30NF
		12	CDPZ50PM12IP30NF
		15	CDPZ50PM15IP30NF
		18	CDPZ50PM18IP30NF
		24	CDPZ50PM24IP30NF
		36	CDPZ50PM36IP30NF
	Flush installation	4	CDPZ50PR4IP30NF
		6	CDPZ50PR6IP30NF
		8	CDPZ50PR8IP30NF
		12	CDPZ50PR12IP30NF
		15	CDPZ50PR15IP30NF
		18	CDPZ50PR18IP30NF
		24	CDPZ50PR24IP30NF
		36	CDPZ50PR36IP30NF

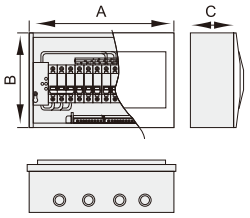
CDPZ50 Series Consumer Box

Standard: IEC60439-1 IEC60670

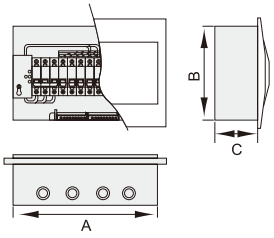
Technical Data

Type	CDPZ50	CDPZ50P
Material	Box:Metal, Cover:Plastic	Full Plastic
Fire-resistancy	Fire-resistancy	Optional
Protection grade	IP30	
Rated operation voltage	230/400V	
Rated insulated voltage	500V	
Rated operating current	100A	
Withstand current	6kA	

Surface installation



Flush installation



Overall Dimensions

Unit:mm

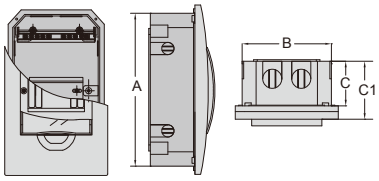
CDPZ50

Metal box&Plastic Cover	Surface installation		Flush installation		Thickness
	A	B	A	B	C
6	171	220	163	200	90
8	207	220	199	200	90
12	279	220	272	200	90
16	351	220	343	200	90
20	423	220	413	200	90
24	303	383	282	364	90

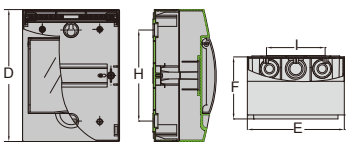
CDPZ50P

Full plastic Loop number	Dimension for hidden installation				Dimension for surface installation				
	Height	Width	Thickness		Height	Width	Thickness	Installation Dimension	
	A	B	C	C1	D	E	F	H	I
4	200	114	61	78	200	112	91	138	-
6	200	150	61	78	200	147	96	144	-
8	200	186	61	78	200	183	96	144	-
12	196	258	61	78	200	255	96	144	-
15	198	311	61	78	200	310	96	144	-
18	216	363	61	78	218	362	96	162	290
24	310.5	261	74.5	92	324	270	102	230	207
36	414.5	261	70.5	88	459	270	102	418	207

Flush installation



Surface installation



JXF Metal Enclosure

Standard: EN60529

CE

Function

JXF Metal Enclosure provide:

□ Control, monitering, measurement and protection for the electric power loops and main power controlling equipment.

Order Information

Type	Thickness of iron charge (mm)	Dimension (mm)								Lock	Reference
		Overall			Installation		Mounting plate				
		H	W	D	H1	B1	H6	B6	Thick		
JXF-2520/14 IP43	1.0	250	200	140	290	150	170	158	1.0	1	JXF252014
JXF-3025/14 IP43	1.0	300	250	140	340	200	220	208	1.0	1	JXF302514
JXF-3025/18 IP43	1.0	300	250	180	340	200	220	208	1.0	1	JXF302518
JXF-3030/14 IP43	1.0	300	300	140	340	250	220	258	1.0	1	JXF303014
JXF-3030/18 IP43	1.0	300	300	180	340	250	220	258	1.0	1	JXF303018
JXF-4030/14 IP43	1.0	400	300	140	440	250	320	258	1.0	1	JXF403014
JXF-4030/20 IP43	1.0	400	300	200	440	250	320	258	1.0	1	JXF403020
JXF-5040/14 IP43	1.0	500	400	140	540	350	420	358	1.0	1	JXF504014
JXF-5040/20 IP43	1.0	500	400	200	540	350	420	358	1.0	2	JXF504020
JXF-5040/25 IP43	1.0	500	400	250	540	350	420	358	1.0	2	JXF504025
JXF-6040/14 IP43	1.2	600	400	140	640	350	520	358	1.2	2	JXF604014
JXF-6040/20 IP43	1.2	600	400	200	640	350	520	358	1.2	2	JXF604020
JXF-6040/25 IP43	1.2	600	400	250	640	350	520	358	1.2	2	JXF604025
JXF-6050/14 IP43	1.2	600	500	140	640	450	520	458	1.2	2	JXF605014
JXF-6050/20 IP43	1.2	600	500	200	640	450	520	458	1.2	2	JXF605020
JXF-6050/25 IP43	1.2	600	500	250	640	450	520	458	1.2	2	JXF605025
JXF-7050/16 IP43	1.2	700	500	160	740	450	620	458	1.2	2	JXF705016
JXF-7050/20 IP43	1.2	700	500	200	740	450	620	458	1.2	2	JXF705020
JXF-7050/25 IP43	1.2	700	500	250	740	450	620	458	1.2	2	JXF705025
JXF-8060/20 IP43	1.5	800	600	200	840	550	720	558	1.5	2	JXF806020
JXF-8060/25 IP43	1.5	800	600	250	840	550	720	558	1.5	2	JXF806025
JXF-10080/20 IP43	1.5	1000	800	200	1040	750	920	758	1.5	2	JXF1008020
JXF-10080/25 IP43	1.5	1000	800	250	1040	750	920	758	1.5	2	JXF1008025
JXF-10080/30 IP43	1.5	1000	800	300	1040	750	920	758	1.5	2	JXF1008030
JXF-2520/14 IP43 Improved	1.0	250	200	140	290	150	170	158	1.0	1	JXF252014B
JXF-3025/14 IP43 Improved	1.0	300	250	140	340	200	220	208	1.0	1	JXF302514B
JXF-3025/18 IP43 Improved	1.0	300	250	180	340	200	220	208	1.0	1	JXF302518B
JXF-3030/14 IP43 Improved	1.0	300	300	140	340	250	220	258	1.0	1	JXF303014B
JXF-3030/18 IP43 Improved	1.0	300	300	180	340	250	220	258	1.0	1	JXF303018B
JXF-4030/14 IP43 Improved	1.0	400	300	140	440	250	320	258	1.0	1	JXF403014B
JXF-4030/20 IP43 Improved	1.0	400	300	200	440	250	320	258	1.0	1	JXF403020B
JXF-5040/14 IP43 Improved	1.0	500	400	140	540	350	420	358	1.0	2	JXF504014B
JXF-5040/20 IP43 Improved	1.0	500	400	200	540	350	420	358	1.0	2	JXF504020B
JXF-5040/25 IP43 Improved	1.0	500	400	250	540	350	420	358	1.0	2	JXF504025B
JXF-6040/14 IP43 Improved	1.2	600	400	140	640	350	520	358	1.2	2	JXF604014B
JXF-6040/20 IP43 Improved	1.2	600	400	200	640	350	520	358	1.2	2	JXF604020B
JXF-6040/25 IP43 Improved	1.2	600	400	250	640	350	520	358	1.2	2	JXF604025B
JXF-6050/14 IP43 Improved	1.2	600	500	140	640	450	520	458	1.2	2	JXF605014B
JXF-6050/20 IP43 Improved	1.2	600	500	200	640	450	520	458	1.2	2	JXF605020B
JXF-6050/25 IP43 Improved	1.2	600	500	250	640	450	520	458	1.2	2	JXF605025B
JXF-7050/16 IP43 Improved	1.2	700	500	160	740	450	620	458	1.2	2	JXF705016B
JXF-7050/20 IP43 Improved	1.2	700	500	200	740	450	620	458	1.2	2	JXF705020B
JXF-7050/25 IP43 Improved	1.2	700	500	250	740	450	620	458	1.2	2	JXF705025B
JXF-8060/20 IP43 Improved	1.5	800	600	200	840	550	720	558	1.5	2	JXF806020B
JXF-8060/25 IP43 Improved	1.5	800	600	250	840	550	720	558	1.5	2	JXF806025B
JXF-10080/20 IP43 Improved	1.5	1000	800	200	1040	750	920	758	1.5	2	JXF1008020B
JXF-10080/25 IP43 Improved	1.5	1000	800	250	1040	750	920	758	1.5	2	JXF1008025B
JXF-10080/30 IP43 Improved	1.5	1000	800	300	1040	750	920	758	1.5	2	JXF1008030B

JXF Metal Enclosure

Standard: EN60529

CE

Order Information

Type	Thickness of iron charge (mm)	Dimension(mm)								Lock	Reference
		Overall			Installation		Mounting plate				
		H	W	D	H1	B1	H6	B6	Thick		
JXF-2520/14 IP54	1.2	250	200	140	320	150	215	148	2.0	1	JXF252014Q
JXF-3025/14 IP54	1.2	300	250	140	370	200	265	198	2.0	1	JXF302514Q
JXF-3025/18 IP54	1.2	300	250	180	370	200	265	198	2.0	1	JXF302518Q
JXF-3030/14 IP54	1.2	300	300	140	370	250	265	248	2.0	1	JXF303014Q
JXF-3030/18 IP54	1.2	300	300	180	370	250	265	248	2.0	1	JXF303018Q
JXF-4030/14 IP54	1.2	400	300	140	470	250	365	248	2.0	1	JXF403014Q
JXF-4030/20 IP54	1.2	400	300	200	470	250	365	248	2.0	1	JXF403020Q
JXF-5040/14 IP54	1.2	500	400	140	570	350	465	348	2.0	2	JXF504014Q
JXF-5040/20 IP54	1.2	500	400	200	570	350	465	348	2.0	2	JXF504020Q
JXF-5040/25 IP54	1.2	500	400	250	570	350	465	348	2.0	2	JXF504025Q
JXF-6040/14 IP54	1.5	600	400	140	670	350	565	348	2.0	2	JXF604014Q
JXF-6040/20 IP54	1.5	600	400	200	670	350	565	348	2.0	2	JXF604020Q
JXF-6040/25 IP54	1.5	600	400	250	670	350	565	348	2.0	2	JXF604025Q
JXF-6050/14 IP54	1.5	600	500	140	670	450	565	448	2.0	2	JXF605014Q
JXF-6050/20 IP54	1.5	600	500	200	670	450	565	448	2.0	2	JXF605020Q
JXF-6050/25 IP54	1.5	600	500	250	670	450	565	448	2.0	2	JXF605025Q
JXF-7050/16 IP54	1.5	700	500	160	770	450	665	448	2.0	2	JXF705016Q
JXF-7050/20 IP54	1.5	700	500	200	770	450	665	448	2.0	2	JXF705020Q
JXF-7050/25 IP54	1.5	700	500	250	770	450	665	448	2.0	2	JXF705025Q
JXF-8060/20 IP54	1.5	800	600	200	870	550	765	548	2.0	2	JXF806020Q
JXF-8060/25 IP54	1.5	800	600	250	870	550	765	548	2.0	2	JXF806025Q
JXF-10080/20 IP54	1.5	1000	800	200	1070	750	965	748	2.0	2	JXF1008020Q
JXF-10080/25 IP54	1.5	1000	800	250	1070	750	965	748	2.0	2	JXF1008025Q
JXF-10080/30 IP54	1.5	1000	800	300	1070	750	965	748	2.0	2	JXF1008030Q

JXF Metal Enclosure

Standard: EN60529

CE

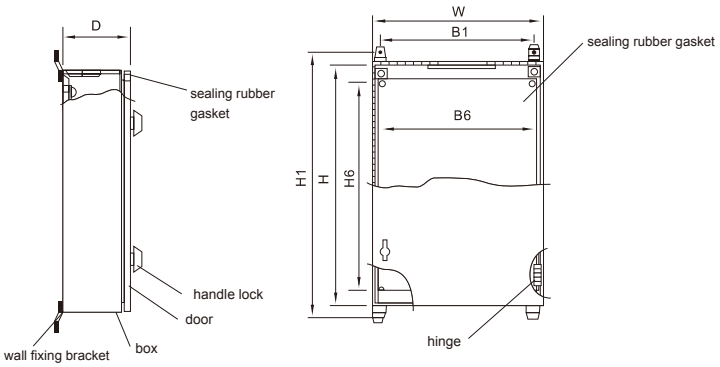


Technical Data

Type	JXF IP43	JXF IP43 Improved	JXF IP54
Protection grade	IP43	IP43	IP54
Standard:	EN60529		
Certificate	CE		
Rated voltage	220/400V		
Rated insulated voltage	660V		
Rated operating current	400A		
Withstand current	15kA		
Sheet thickness	1.0~1.5mm	1.0~1.5mm	1.2~1.5mm
Mounting plate thickness	1.0~1.5mm	1.0~1.5mm	2.0mm
Hinge	Normal	Enhanced	Enhanced
Sealing rubber gasket	Seal band	Black rubber gasket	Black rubber gasket
Cable gland	Top and bottom	bottom only	bottom only

Overall Dimensions

Unit: mm



CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Order Information

Type	Pole	In A	Fixed Thermal Magnetic				Thermo-adjustable	
			L-type	S-Type	M-type	T-Type	M-type	T-Type
CDM6s-63	3	10	CDM6s063L0103XXXF	CDM6s063S0103XXXF	CDM6s063M0103XXXF	CDM6s063T0103XXXF	-	-
		16	CDM6s063L0163XXXF	CDM6s063S0163XXXF	CDM6s063M0163XXXF	CDM6s063T0163XXXF	-	-
		20	CDM6s063L0203XXXF	CDM6s063S0203XXXF	CDM6s063M0203XXXF	CDM6s063T0203XXXF	-	-
		25	CDM6s063L0253XXXF	CDM6s063S0253XXXF	CDM6s063M0253XXXF	CDM6s063T0253XXXF	-	-
		32	CDM6s063L0323XXXF	CDM6s063S0323XXXF	CDM6s063M0323XXXF	CDM6s063T0323XXXF	-	-
		40	CDM6s063L0403XXXF	CDM6s063S0403XXXF	CDM6s063M0403XXXF	CDM6s063T0403XXXF	-	-
		50	CDM6s063L0503XXXF	CDM6s063S0503XXXF	CDM6s063M0503XXXF	CDM6s063T0503XXXF	-	-
		63	CDM6s063L0633XXXF	CDM6s063S0633XXXF	CDM6s063M0633XXXF	CDM6s063T0633XXXF	-	-
	4	10	-	-	CDM6s063M0104XXXF	CDM6s063T0104XXXF	-	-
		16	-	-	CDM6s063M0164XXXF	CDM6s063T0164XXXF	-	-
		20	-	-	CDM6s063M0204XXXF	CDM6s063T0204XXXF	-	-
		25	-	-	CDM6s063M0254XXXF	CDM6s063T0254XXXF	-	-
		32	-	-	CDM6s063M0324XXXF	CDM6s063T0324XXXF	-	-
		40	-	-	CDM6s063M0404XXXF	CDM6s063T0404XXXF	-	-
		50	-	-	CDM6s063M0504XXXF	CDM6s063T0504XXXF	-	-
		63	-	-	CDM6s063M0634XXXF	CDM6s063T0634XXXF	-	-
CDM6s-100	3	16	CDM6s100L0163XXXF	CDM6s100S0163XXXF	-	-	CDM6s100M0163XXX3	CDM6s100T0163XXX3
		20	CDM6s100L0203XXXF	CDM6s100S0203XXXF	-	-	-	-
		25	CDM6s100L0253XXXF	CDM6s100S0253XXXF	-	-	CDM6s100M0253XXX3	CDM6s100T0253XXX3
		32	CDM6s100L0323XXXF	CDM6s100S0323XXXF	-	-	-	-
		40	CDM6s100L0403XXXF	CDM6s100S0403XXXF	-	-	CDM6s100M0403XXX3	CDM6s100T0403XXX3
		50	CDM6s100L0503XXXF	CDM6s100S0503XXXF	-	-	-	-
		63	CDM6s100L0633XXXF	CDM6s100S0633XXXF	-	-	CDM6s100M0633XXX3	CDM6s100T0633XXX3
		80	CDM6s100L0803XXXF	CDM6s100S0803XXXF	-	-	-	-
		100	CDM6s100L1003XXXF	CDM6s100S1003XXXF	-	-	CDM6s100M1003XXX3	CDM6s100T1003XXX3
	4	16	-	-	-	-	CDM6s100M0164XXX3	CDM6s100T0164XXX3
		25	-	-	-	-	CDM6s100M0254XXX3	CDM6s100T0254XXX3
		40	-	-	-	-	CDM6s100M0404XXX3	CDM6s100T0404XXX3
		63	-	-	-	-	CDM6s100M0634XXX3	CDM6s100T0634XXX3
		100	-	-	-	-	CDM6s100M1004XXX3	CDM6s100T1004XXX3
CDM6s-250	3	100	CDM6s250L1003XXXF	CDM6s250S1003XXXF	-	-	-	-
		125	CDM6s250L1253XXXF	CDM6s250S1253XXXF	-	-	CDM6s250M1253XXX3	CDM6s250T1253XXX3
		160	CDM6s250L1603XXXF	CDM6s250S1603XXXF	-	-	CDM6s250M1603XXX3	CDM6s250T1603XXX3
		180	CDM6s250L1803XXXF	CDM6s250S1803XXXF	-	-	-	-
		200	CDM6s250L2003XXXF	CDM6s250S2003XXXF	-	-	CDM6s250M2003XXX3	CDM6s250T2003XXX3
		225	CDM6s250L2253XXXF	CDM6s250S2253XXXF	-	-	-	-
		250	CDM6s250L2503XXXF	CDM6s250S2503XXXF	-	-	CDM6s250M2503XXX3	CDM6s250T2503XXX3
	4	125	-	-	-	-	CDM6s250M1254XXX3	CDM6s250T1254XXX3
		160	-	-	-	-	CDM6s250M1604XXX3	CDM6s250T1604XXX3
		200	-	-	-	-	CDM6s250M2004XXX3	CDM6s250T2004XXX3
		250	-	-	-	-	CDM6s250M2504XXX3	CDM6s250T2504XXX3

CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Order Information

Type	Pole	In A	Fixed Thermal Magnetic				Thermo-adjustable	
			L-type	S-Type	M-type	T-Type	M-type	T-Type
CDM6s-400	3	200	CDM6s400L2003XXXF	CDM6s400S2003XXXF	-	-	-	-
		225	CDM6s400L2253XXXF	CDM6s400S2253XXXF	-	-	-	-
		250	CDM6s400L2503XXXF	CDM6s400S2503XXXF	-	-	CDM6s400M2503XXX3	CDM6s400T2503XXX3
		315	CDM6s400L3153XXXF	CDM6s400S3153XXXF	-	-	-	-
		350	CDM6s400L3503XXXF	CDM6s400S3503XXXF	-	-	-	-
		400	CDM6s400L4003XXXF	CDM6s400S4003XXXF	-	-	CDM6s400M4003XXX3	CDM6s400T4003XXX3
	4	200	CDM6s400L2004XXXF	CDM6s400S2004XXXF	-	-	-	-
		225	CDM6s400L2254XXXF	CDM6s400S2254XXXF	-	-	-	-
		250	CDM6s400L2504XXXF	CDM6s400S2504XXXF	-	-	CDM6s400M2504XXX3	CDM6s400T2504XXX3
		315	CDM6s400L3154XXXF	CDM6s400S3154XXXF	-	-	-	-
		350	CDM6s400L3504XXXF	CDM6s400S3504XXXF	-	-	-	-
		400	CDM6s400L4004XXXF	CDM6s400S4004XXXF	-	-	CDM6s400M4004XXX3	CDM6s400T4004XXX3
CDM6s-630	3	400	CDM6s630L4003XXXF	CDM6s630S4003XXXF	-	-	-	-
		500	CDM6s630L5003XXXF	CDM6s630S5003XXXF	-	-	CDM6s630M5003XXX3	CDM6s630T5003XXX3
		630	CDM6s630L6303XXXF	CDM6s630S6303XXXF	-	-	CDM6s630M6303XXX3	CDM6s630T6303XXX3
	4	400	CDM6s630L4004XXXF	CDM6s630S4004XXXF	-	-	-	-
		500	CDM6s630L5004XXXF	CDM6s630S5004XXXF	-	-	CDM6s630M5004XXX3	CDM6s630T5004XXX3
		630	CDM6s630L6304XXXF	CDM6s630S6304XXXF	-	-	CDM6s630M6304XXX3	CDM6s630T6304XXX3
CDM6s-800	3	400	CDM6s800L4003XXXF	CDM6s800S4003XXXF	CDM6s800M4003XXXF	CDM6s800T4003XXXF	-	-
		500	CDM6s800L5003XXXF	CDM6s800S5003XXXF	CDM6s800M5003XXXF	CDM6s800T5003XXXF	-	-
		630	CDM6s800L6303XXXF	CDM6s800S6303XXXF	CDM6s800M6303XXXF	CDM6s800T6303XXXF	-	-
		700	CDM6s800L7003XXXF	CDM6s800S7003XXXF	CDM6s800M7003XXXF	CDM6s800T7003XXXF	-	-
		800	CDM6s800L8003XXXF	CDM6s800S8003XXXF	CDM6s800M8003XXXF	CDM6s800T8003XXXF	-	-
	4	400	CDM6s800L4004XXXF	CDM6s800S4004XXXF	CDM6s800M4004XXXF	CDM6s800T4004XXXF	-	-
		500	CDM6s800L5004XXXF	CDM6s800S5004XXXF	CDM6s800M5004XXXF	CDM6s800T5004XXXF	-	-
		630	CDM6s800L6304XXXF	CDM6s800S6304XXXF	CDM6s800M6304XXXF	CDM6s800T6304XXXF	-	-
		700	CDM6s800L7004XXXF	CDM6s800S7004XXXF	CDM6s800M7004XXXF	CDM6s800T7004XXXF	-	-
		800	CDM6s800L8004XXXF	CDM6s800S8004XXXF	CDM6s800M8004XXXF	CDM6s800T8004XXXF	-	-

CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Technical Data





Fixed Thermal Magnetic															
Basic Information (IEC60947-2)															
Frame Size	AF	63						100				250			
Number of Poles		3P				4P		3P		4P		3P		4P	
Breaking Capacity Level		L	S	M	T	M	T	L	S	L	S	L	S	L	S
Rated Ultimate Short-circuit Breaking Capacity Icu (kA rms)		25	18	50	30	50	30	35	26	35	26	35	26	35	26
Rated Service Short-circuit Breaking Capacity Ics (kA rms)		75%	100%	50%	100%	50%	100%	75%	100%	75%	100%	75%	100%	75%	100%
Mechanical Durabilities	On-off Cycle	8500						8500				7000			
Electrical Durabilities	On-off Cycle	1500						1500				1000			
Tripping Unit															
Rated Current (A)	In	10/16/20/25/32/40/50/63						16/20//25/32/40/ 50/63/80/100		-		100/125/160/180/ 200/225/250		-	
Accessory															
Indication Accessories															
OF		■						■				■			
SD		■						■				■			
Control Accessories															
MX(AC400, 230V, DC220V)		■						■				■			
MN (AC400, 230V)		■				-		■				■			
Extended Rotary Handle (Round and Square)		■						■				■			
AC Motor Mechanism (AC400, 230V)		■						■				■			
Mechanical Interlock		■				-		■		-		■		-	
Mounting & Connection															
Fixed, Front Connection		■						■				■			
Fixed, Rear Connection		■						■				■			
Plug-in, Rear Connection		■				-		■				■			
Plug-in, Front Connection		-						■				■			
Drawer-out, Rear Connection		-						-				-			
Connection															
Spreader		■						■				■			
Protection															
Phase Barrier		■						■				■			
Installation Information		See Page 70						See Page 71				See Page 72			

‘■” shows it has this option;

“-” means it has no this option.

CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Technical Data



Fixed Thermal Magnetic																
Basic Information (IEC60947-2)																
Frame Size	AF	400				630				800						
Number of Poles		3P		4P		3P		4P		3P				4P			
Breaking Capacity Level		L	S	L	S	L	S	L	S	L	S	M	T	L	S	M	T
Rated Ultimate Short-circuit Breaking Capacity Icu (kA rms)		50	30	50	30	50	30	50	30	50	30	70	40	50	30	70	40
Rated Service Short-circuit Breaking Capacity Ics (kA rms)		50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
Mechanical Durabilities	On-off Cycle	4000				4000				2500						
Electrical Durabilities	On-off Cycle	1000				1000				500						
Tripping Unit																
Rated Current (A)	In	200/225/250/315/350/400				400/500/630				400/500/630/700/800						
Accessory																
Indication Accessories																
OF		■				■				■						
SD		■				■				■						
Control Accessories																
MX(AC400, 230V, DC220V)		■				■				■						
MN (AC400, 230V)		■				■				■						
Extended Rotary Handle (Round and Square)		■				■				■						
AC Motor Mechanism (AC400, 230V)		■				■				■						
Mechanical Interlock		■		-		■				■				-		
Mounting & Connection																
Fixed, Front Connection		■				■				■						
Fixed, Rear Connection		■				■				■						
Plug-in, Rear Connection		■				■				■						
Plug-in, Front Connection		-				-				-						
Drawer-out, Rear Connection		■				■				■						
Connection																
Spreader		■				■				■						
Protection																
Phase Barrier		■				■				■						
Installation Information		See Page 73				See Page 74				See Page 75						

"■" shows it has this option;

"-" means it has no this option.

CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Technical Data






Thermo-adjustable																
Basic Information (IEC60947-2)																
Frame Size	AF	100				250				400				630			
Number of Poles		3P		4P		3P		4P		3P		4P		3P		4P	
Breaking Capacity Level		M	T	M	T	M	T	M	T	M	T	M	T	M	T	M	T
Rated Ultimate Short-circuit Breaking Capacity Icu (kA rms)		50	30	50	30	50	30	50	30	70	40	70	40	70	40	70	40
Rated Service Short-circuit Breaking Capacity Ics (kA rms)		50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
Mechanical Endurance	On-off Cycle	8500				7000				4000				4000			
Electrical Endurance	On-off Cycle	1500				1000				1000				1000			
Tripping Unit																	
Rated Current (A)	In	16/25/40/63/100				125/160/200/250				250/400				500/630			
Thermo-adjustable Setting (Ir)	In	0.8/0.9/1.0In				0.8/0.9/1.0In				0.8/0.9/1.0In				0.8/0.9/1.0In			
Accessory																	
Indication Accessories																	
OF		■				■				■				■			
SD		■				■				■				■			
Control Accessories																	
MX(AC400, 230V, DC220V)		■				■				■				■			
MN (AC400, 230V)		■		-		■				■				■			
Extended Rotary Handle (Round and Square)		■				■				■				■			
AC Motor Mechanism (AC400, 230V)		■				■				■				■			
Mechanical Interlock		■		-		■		-		■		-		■			
Mounting & Connection																	
Fixed, Front Connection		■				■				■				■			
Fixed, Rear Connection		■				■				■				■			
Plug-in, Rear Connection		■		-		■				■				■			
Plug-in, Front Connection		-				■				-				-			
Drawer-out, Rear Connection		-				-				■				■			
Connection																	
Spreader		■				■				■				■			
Protection																	
Phase Barrier		■				■				■				■			
Installation Information		See Page 71				See Page 72				See Page 73				See Page 74			

"■" shows it has this option;

"-" means it has no this option.

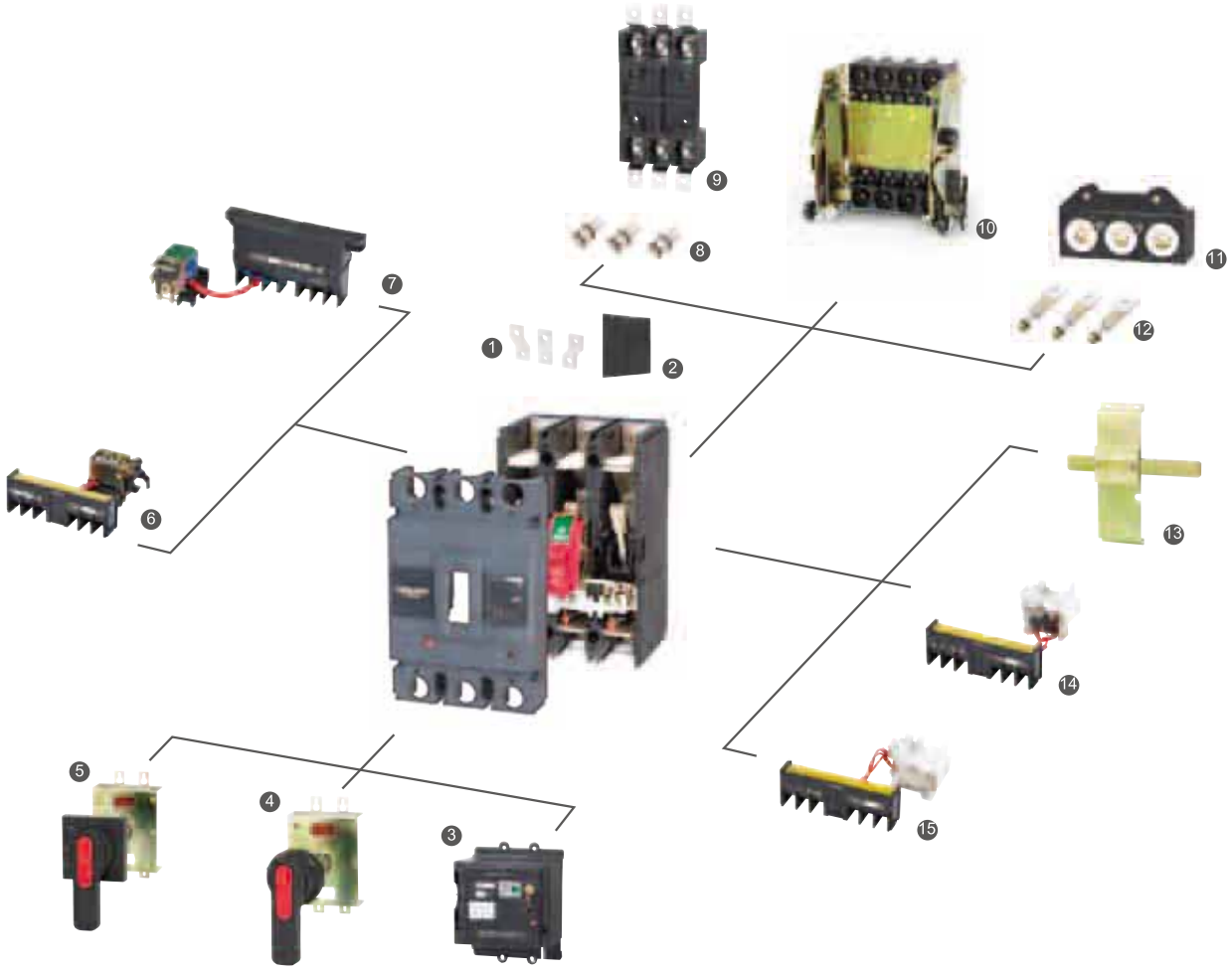
CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Basic Technical Data

- Rated Insulation Voltage Ui: AC 800V (Frame 63AF: AC 690V)
- Rated Impulse Withstand Voltage Uimp: 8KV (Frame 63AF: 6KV)
- Rated Working Voltage Ue: AC 415V (Frame 63AF: AC 400)
- Rated Working Frequency: 50Hz/60Hz
- Utilization Category: A
- Isolation Function: Applicable for all series

Complete Functions and Accessories



1	Spreader	6	MX	11	Plug-in Rear Connection
2	Phase Barrier	7	MN	12	Fixed Rear Connection
3	AC Motor Mechanism	8	Plug-in Connecting Terminal	13	Mechanical Interlock
4	Round Extended Rotary Handle	9	Plug-in Front Connection	14	SD
5	Square Extended Rotary Handle	10	Drawer-out Rear Connection	15	OF

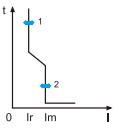
CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Complete Functions

Optional Tipping Unit Functions

The tripping unit is the intelligent part of the moulded case circuit breaker. And the tripping unit of our CDM6 moulded case circuit breaker is independently designed by Delixi Electric, which is a new generation of the tripping release by virtue of dedicated R&D.
CDM6s Thermal Magnetic Tripping Unit is divided into 2 types, that is, Fixed Rating and Thermal-adjustable Tripping Unit.





Fixed Thermal Magnetic Tripping Unit

- Be used for overload and short-circuit protection.

Thermal-adjustable, Fixed-magnetic Tripping Unit

- Be used for overload and short-circuit protection
- Adjustable overload current
- Change the relation between the overload current and the rated current by adjusting the grades of the knobs (0.8-0.9-1.0In, three grades are available to be adjusted). Even so the current of instantaneous protection movement shall still take the rated current as the base number

E.g.: The customers need 250AF, 200A current MCCB, and considering the product expansion in the future, it is required to select the circuit breaker with overload adjustable feature. So which kind of the product should the customers choose, how much is it for overload tripping release current (Ir1) and instantaneous tripping release current (Ii)?

Answer: CDM6s, 250AF, M-Type Breaking Capacity, Rated Current 250A, and switch the knob in the grade of 0.8.
So, Ir1=250A * 0.8=200A, Ii=250 * 10=2500A.

CDM6s All Series of Products Featuring Isolation Function

- The circuit breaker with isolation function shall meet the standard of IEC 60947-2.
- The operating handle hasn't indicated "OFF" position until the contact has been indeed opened.
- The Isolation Function Protection includes:
  - Mechanical reliability of the contact indication system
  - No leakage current
  - Over-voltage Withstand Capacity between outlet and inlet terminals

CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Complete Accessories of CDM6 Series

Indicating Accessories



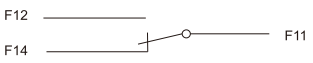
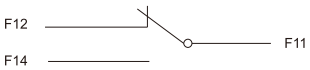
- Auxiliary Contact (OF):

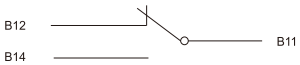
  be connected in the auxiliary circuit of switch device and used for the accessories to indicate the position of the circuit breaker contacts

- Alarm Switch (SD):

  be used for the accessories under the state of on and off or trip of the indication circuit breaker for the following 5 reasons:
  - Overload or short-circuit fault
  - Residual earth-leakage fault
  - Artificial Testing Release
  - Shunt Trip Release
  - Line Fault and Under-voltage Release Tripping



Accessory Name	Switch-on	Switch-off/Tripping
OF		

Accessory Name	Switch-on/off	Switch-off/Tripping
SD		

Electrical Parameter of OF & SD			
Rated Thermal Current (A)		3A	
Utilization Category		AC15	DC13
Working Current 50Hz/60Hz	AC400V	0.3A	–
	DC220V	–	0.15A

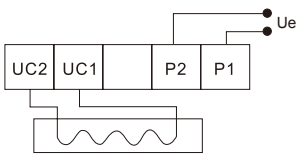
Control Accessories



- Under-voltage Release (MN)

Tripping threshold between 0.35 and 0.7 times the rated voltage; when it is at 85%-110% of rated working voltage, Under-voltage Release shall ensure the circuit breaker switch-on; when the rated working voltage is less than 35%, Undervoltage Release shall prevent switch-on of the circuit breaker.

Undervoltage Release Wiring



Applicable Type of Circuit Breaker	Power Consumption of Under-voltage Coil (W)	
	AC400V	AC230V
CDM6s63	4	3.1
CDM6s100	3.9	3.2
CDM6s250	4.3	3.3
CDM6s400	3.6	2.5
CDM6s630	3.4	2.5
CDM6s800	2	1.6

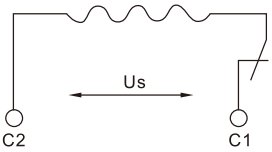
CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Complete Accessories of CDM6 Series



Shunt Release Wiring



- Shunt Release (MX)

When the working voltage is between 70%-110% Us, the shunt release shall reliably trip the circuit breaker.

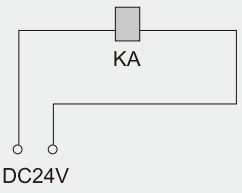
Applicable Type of Circuit Breaker	Power Consumption of Shunt Release Coil (W)			
	AC400V	AC230V	DC220V	DC24V
CDM6s63	91.6	76.1	90.7	91.2
CDM6s100	96.8	73	90.7	91.2
CDM6s250	112	68.6	90.7	85.3
CDM6s400	67	62.3	94.4	100
CDM6s630	68	58.2	94.4	100
CDM6s800	163	153	94.4	120

When the rated control supply voltage of the shunt release is DC24V, the maximum length of the copper conductor shall satisfy the following requirements:

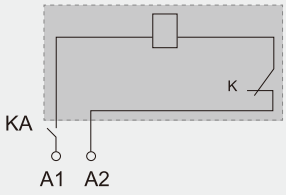
Conductor Area Rated / Control Supply Voltage Us (DC24V)	1.5mm^2	2.5mm^2
100%Us	150m	250m
85%Us	100m	160m

When the requirements above cannot be satisfied, it is recommended to adopt the following chart to design control loop of the shunt release.

Schematic Diagram of Shunt-trip Release in dotted –line box



KA: it is DC24V Intermediate Relay, and the current capacity of the electric shock is 1A.



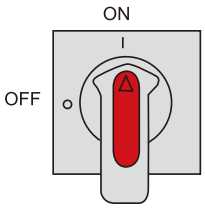
Power Input
The voltage specification of the power input
AC50Hz 230V、400V；DC110V、220V

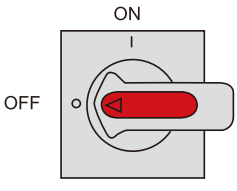




- Extended Rotary Handle

○ Function: indication of the three positions of switch-on, switch-off and trip
○ The circuit breaker cannot be switch-on when the switch board door is open
○ The door cannot be opened if the circuit breaker is ON
○ An extension shaft that can be adjusted to the distance between the back of circuit breaker and door, the specific distance refers to the dimensions at the Rear and the installation part.
○ The OFF-Position of the circuit breaker can hang 1-3 locks with the diameter of 5 mm.



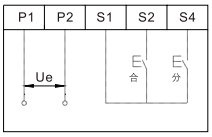


CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Complete Accessories of CDM6 Series





- AC Motor Mechanism

  Provide on-site and remote distance control circuit breaker to implement switch-on and switch-off.



- Mechanical Interlock

  Prevent simultaneous switch-on of two sets of the circuit breakers



- Phase Barriers

  The phase barriers are used to reinforce isolation of connection points in installation with bus-bars whether insulated or not. We can easily install the phase barrier through the phase slot of the this product

  Both the inlet and outlet line of CDM6s has phase barrier.

Connecting Accessories



- Fixed, Rear Connection

  It is easy to install and connect the products in the Rear Connection



- Plug-in

  The wiring type is divided into plug-in Rear Connection and plug-in Front Connection

  The plug-in connection for the products is easy for maintenance and replacement, but plug-in and plug-out cannot be done with the electricity.

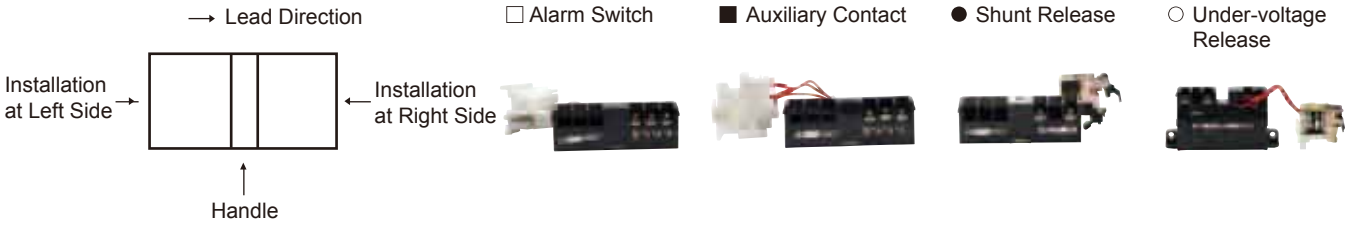


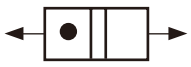
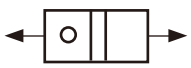
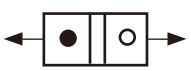
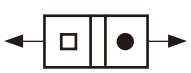
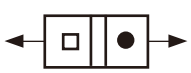
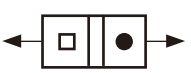
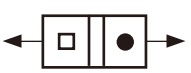
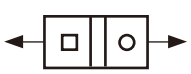
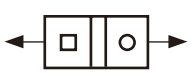
- Drawer-out Rear Connection

  The drawer-out products can be easily maintained and replaced Visual connection and break-up.

Installation Location of Accessories

Installation Method for Tripping Release and Accessories Code



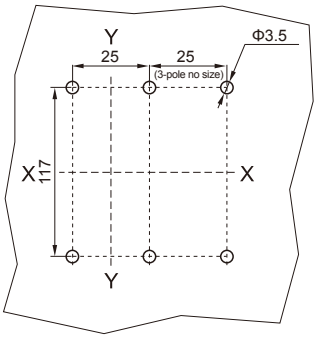
Name of Accessory	Product Type			
	CDM6s63/100/250	CDM6s400	CDM6s630	CDM6s800
Alarm Switch				
Shunt Release				
Auxiliary Contact				
Undervoltage Release				
Auxiliary Contact Shunt Release				
Shunt Release Undervoltage Release				
Auxiliary Contact Undervoltage Release				
Shunt-trip Release Alarm Switch				
Undervoltage Release Alarm Switch				
Shunt Release Auxiliary Contact Alarm Switch				
Auxiliary Contact Undervoltage Release Alarm Switch				

CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

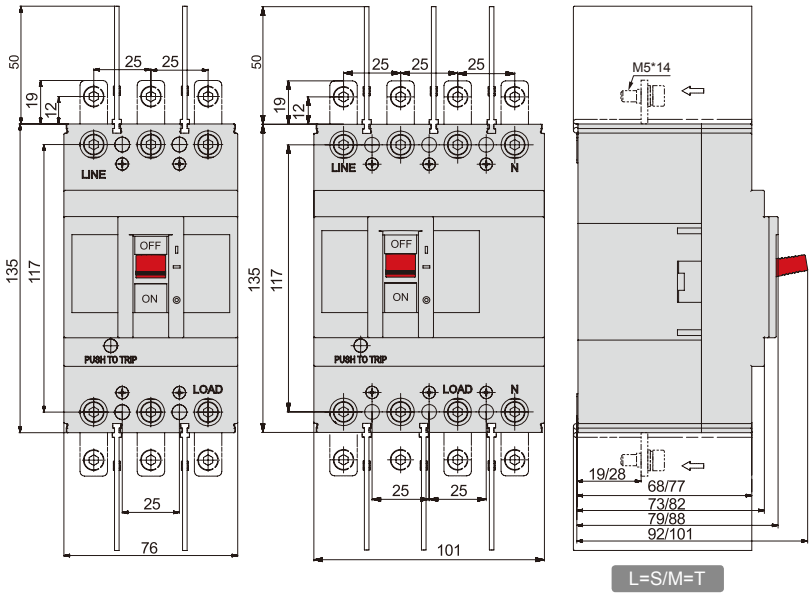
CDM6s63 Installation Dimension

- Chart of Fixed Front Connection Installation Hole

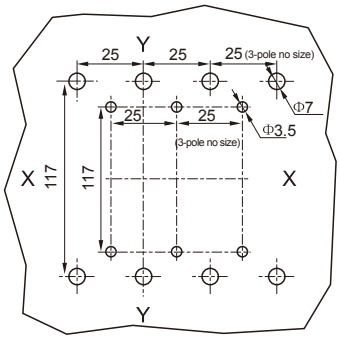


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

- Installation Dimension of Fixed Front Connection

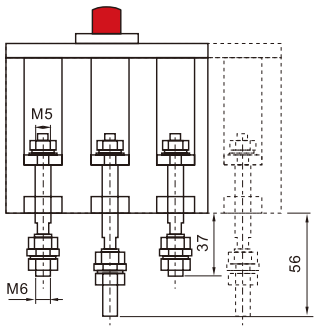


- Chart of Fixed Rear Connection Installation Hole

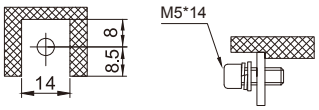


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

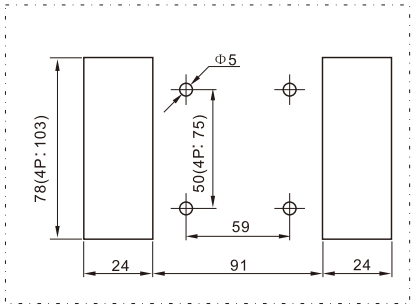
- Fixed Rear Connection Wiring



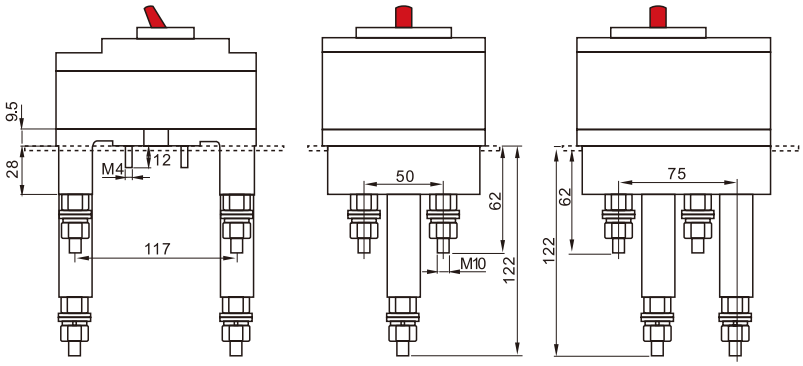
- Chart of Terminal Connection Installation Hole



- Chart of Plug-in Rear Connection Installation Hole



- Plug-in Rear Connection Wiring

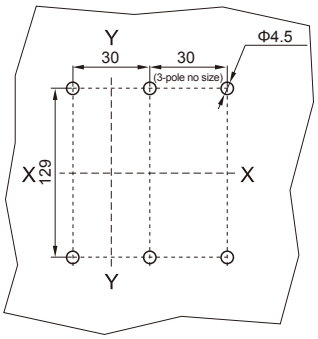


CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

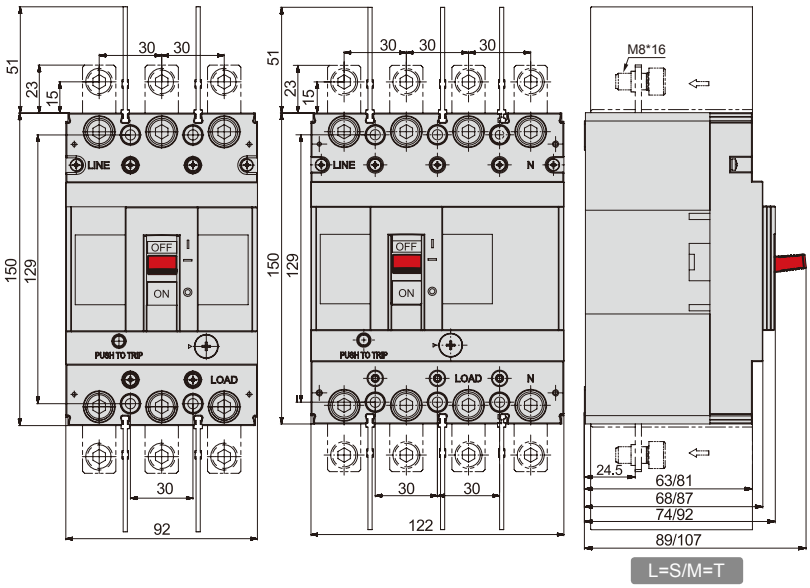
CDM6s100 Installation Dimension

- Chart of Fixed Front Connection Installation Hole

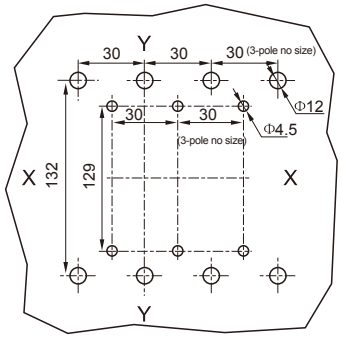


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

- Installation Dimension of Fixed Front Connection

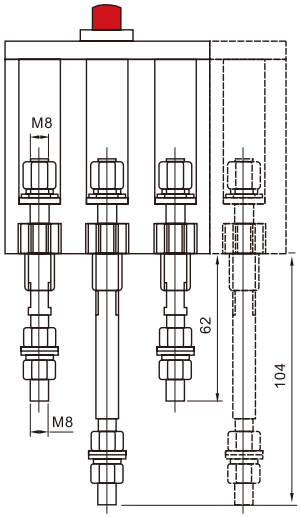


- Chart of Fixed Rear Connection Installation Hole

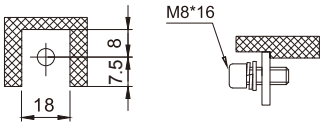


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

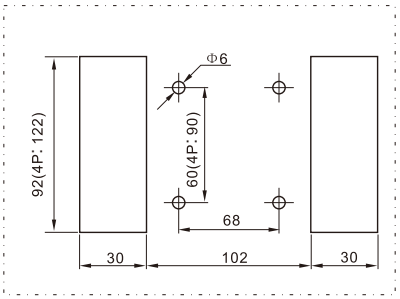
- Fixed Rear Connection Wiring



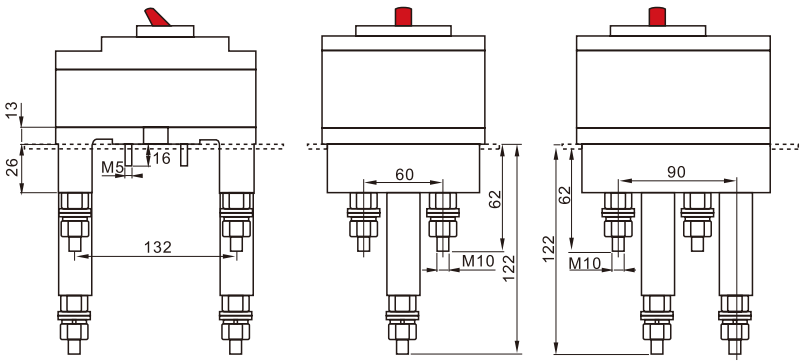
- Chart of Terminal Connection Installation Hole



- Chart of Plug-in Rear Connection Installation Hole



- Plug-in Rear Connection Wiring

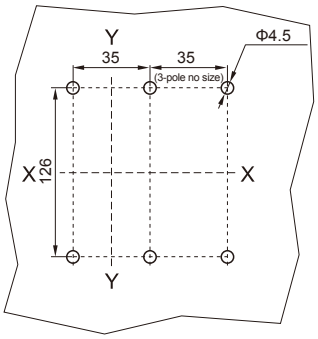


CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

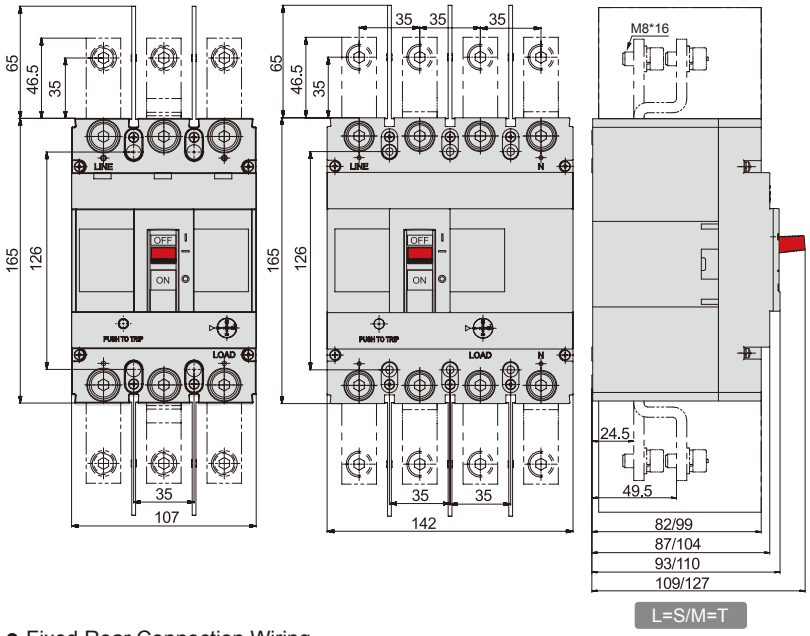
CDM6s250 Installation Dimension

- Chart of Fixed Front Connection Installation Hole

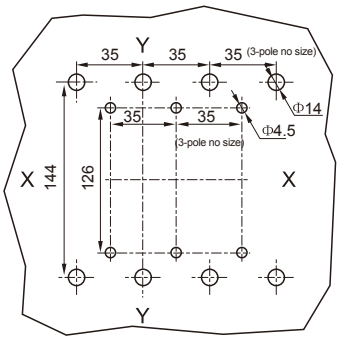


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

- Installation Dimension of Fixed Front Connection

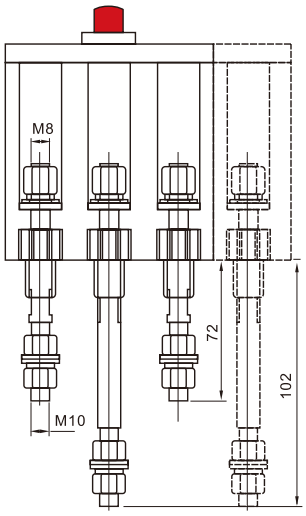


- Chart of Fixed Rear Connection Installation Hole

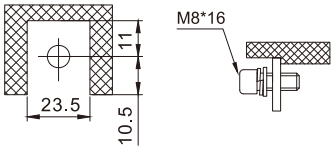


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

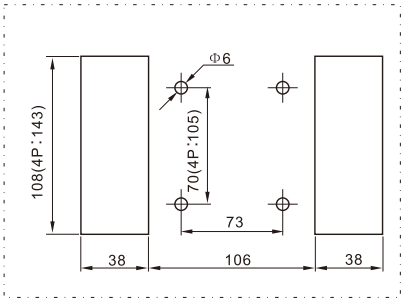
- Fixed Rear Connection Wiring



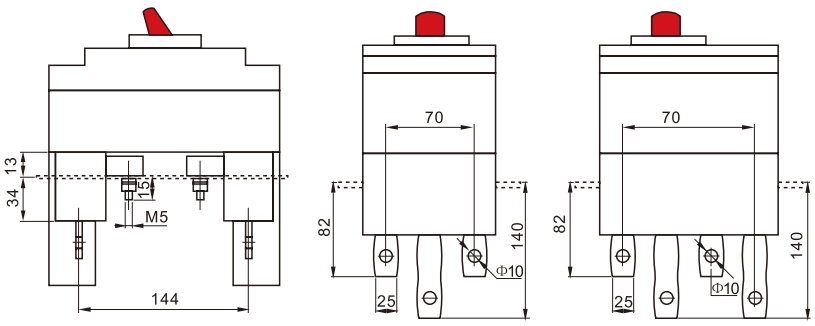
- Chart of Terminal Connection Installation Hole



- Chart of Plug-in Rear Connection Installation Hole

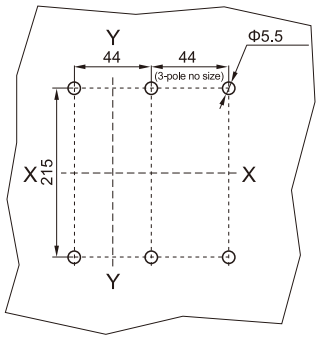


- Plug-in Rear Connection Wiring



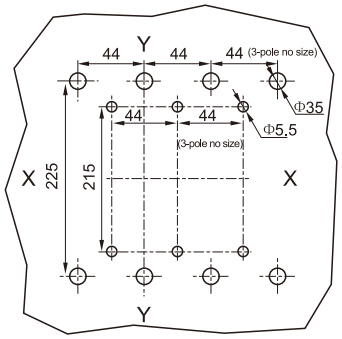
CDM6s400 Installation Dimension

● Chart of Fixed Front Connection Installation Hole



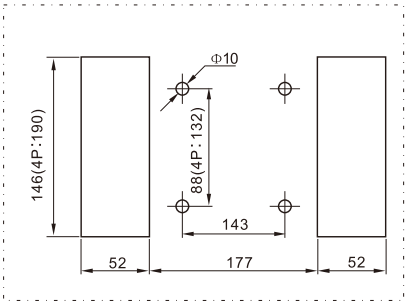
Remark: X-X, Y-Y is the center of 3-pole circuit breaker

● Chart of Fixed Rear Connection Installation Hole

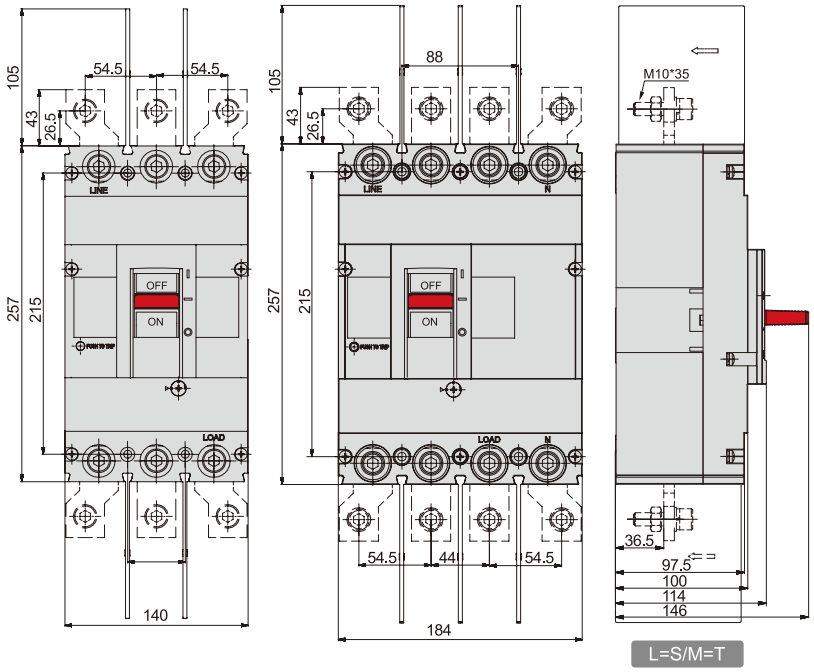


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

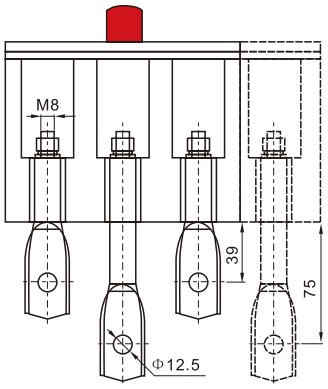
● Chart of Plug-in Rear Connection Installation Hole



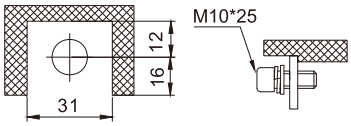
● Installation Dimension of Fixed Front Connection



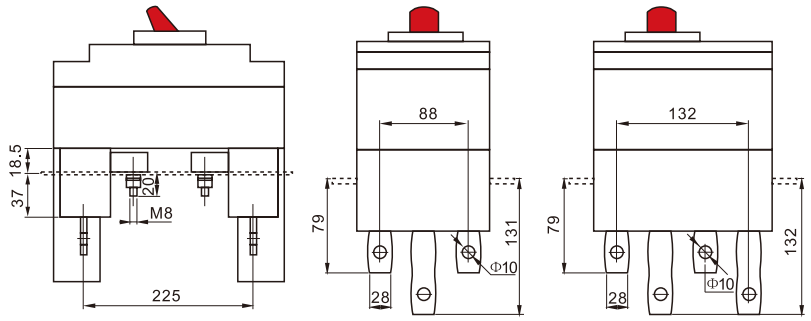
● Fixed Rear Connection Wiring



● Chart of Terminal Connection Installation Hole

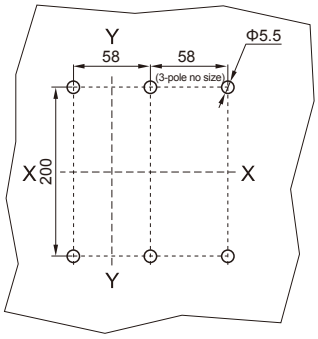


● Plug-in Rear Connection Wiring



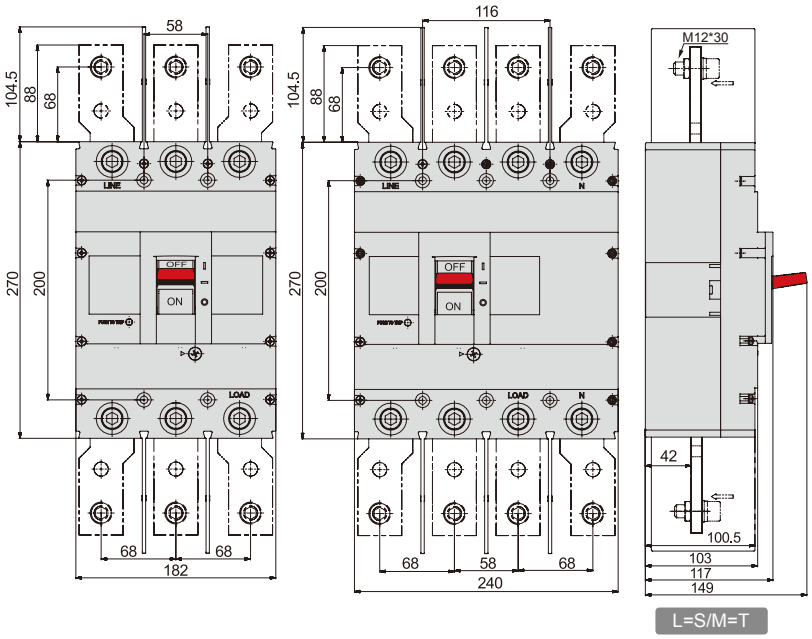
CDM6s630 Installation Dimension

● Chart of Fixed Front Connection Installation Hole

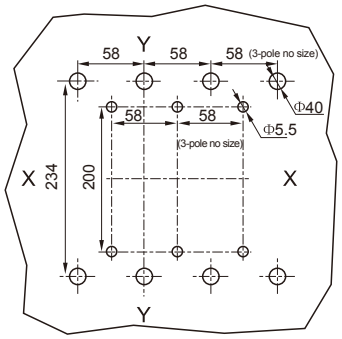


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

● Installation Dimension of Fixed Front Connection

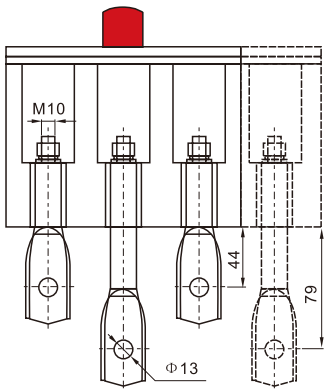


● Chart of Fixed Rear Connection Installation Hole

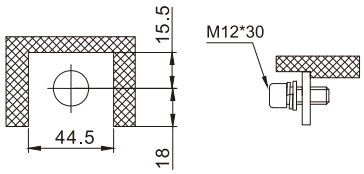


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

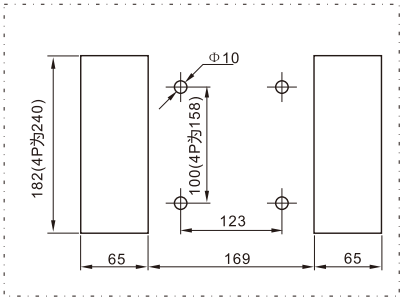
● Fixed Rear Connection Wiring



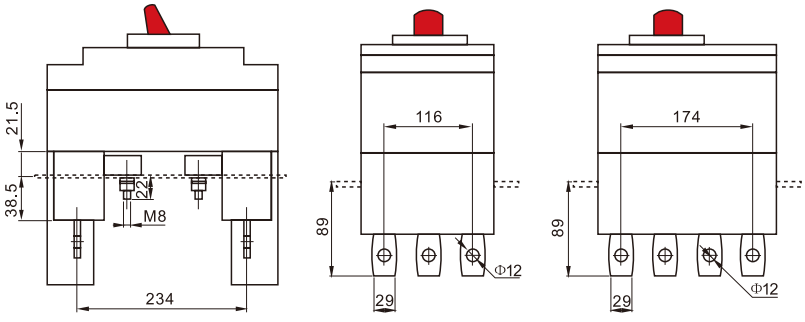
● Chart of Terminal Connection Installation Hole



● Chart of Plug-in Rear Connection Installation Hole

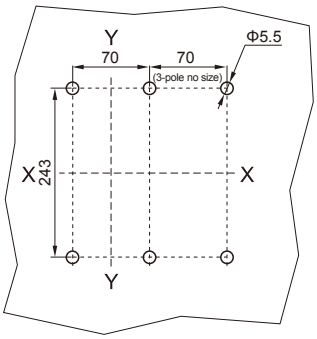


● Plug-in Rear Connection Wiring



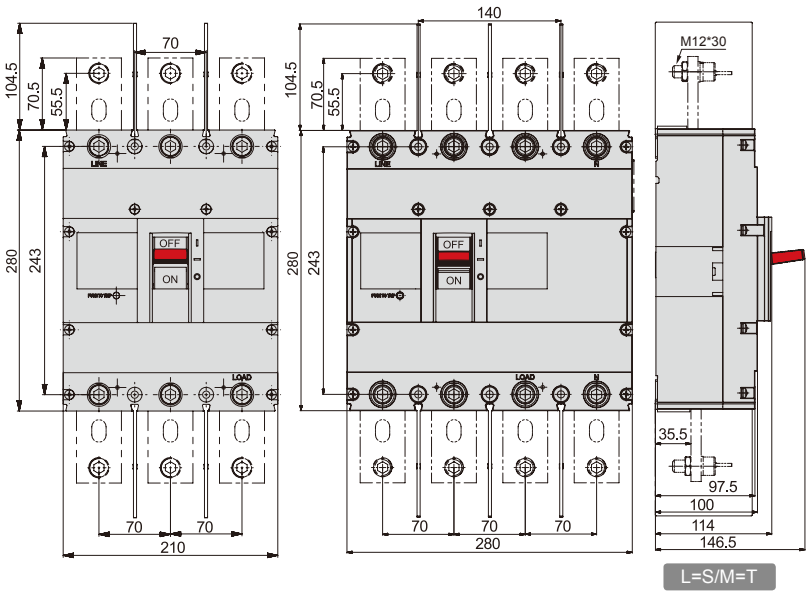
CDM6s800 Installation Dimension

● Chart of Fixed Front Connection Installation Hole

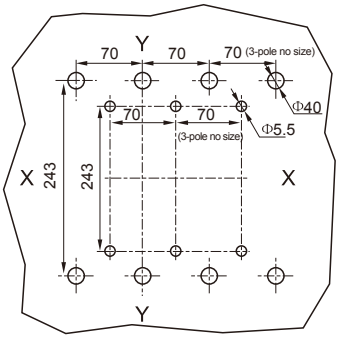


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

● Installation Dimension of Fixed Front Connection

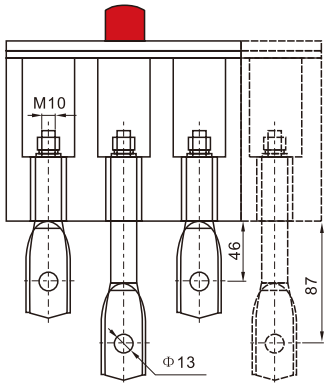


● Chart of Fixed Rear Connection Installation Hole

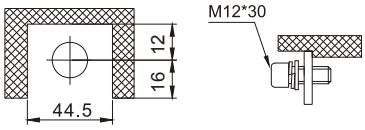


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

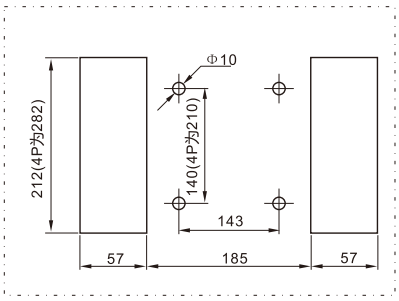
● Fixed Rear Connection Wiring



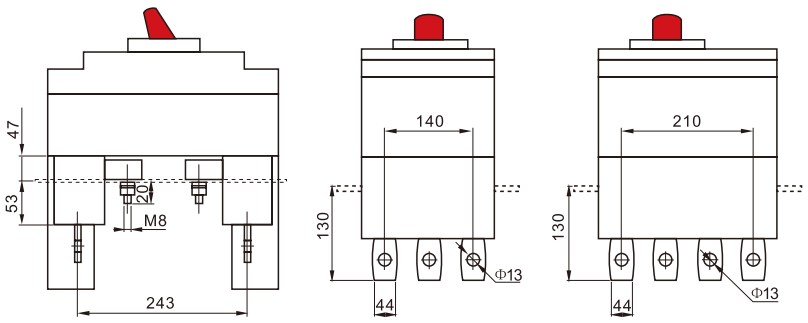
● Chart of Terminal Connection Installation Hole



● Chart of Plug-in Rear Connection Installation Hole

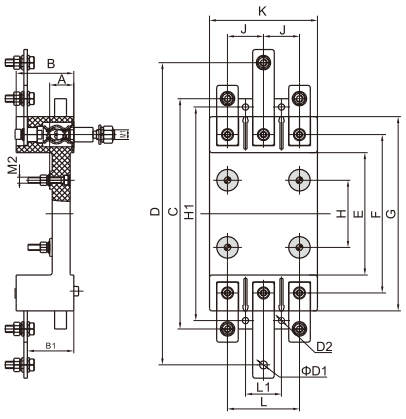


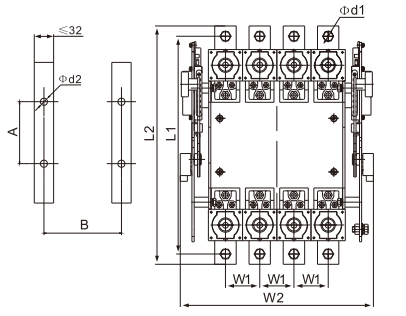
● Plug-in Rear Connection Wiring

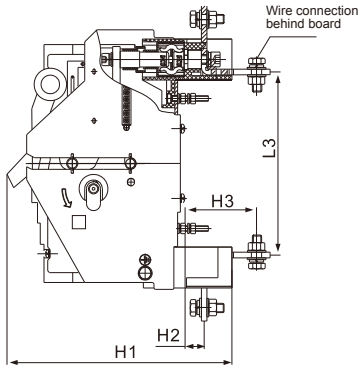


CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2







● Plug-in Front Connection Installation Dimension (CDM6s100 and CDM6s250)

Equipped with Circuit Breaker	Pole No.	Appearance and Installation Dimension (mm)								
		A	B	B1	C	D	E	F	G	H
CDM6s100	3P	20	48	39	195	252	102	132	162	56
	4P	20	48	39	195	252	102	132	162	56
CDM6s250	3P	23	53	42	204	304	108	144	180	54
	4P	23	53	42	204	304	108	144	180	54

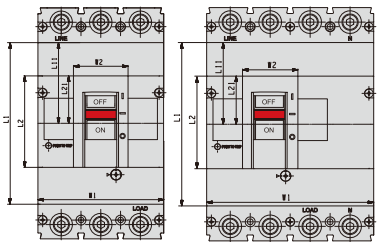
Equipped with Circuit Breaker	Pole No.	Appearance and Installation Dimension (mm)								
		H1	J	K	L	L1	M1	M2	ΦD1	D2
CDM6s100	3P	178	30	90	60	30	M8	M5	Φ6.5	M5
	4P	178	30	120	90	60	M8	M5	Φ6.5	M5
CDM6s250	3P	196	35	107	70	35	M8	M5	Φ8.5	M5
	4P	196	35	142	105	70	M8	M5	Φ8.5	M5

● Drawer-out Rear Connection Base (CDM6s400, CDM6s630 and CDM6s800)

Equipped with Circuit Breaker	Pole No.	Appearance Dimension (mm)								Installation Dimension		
		L1	L2	L3	H1	H2	H3	W1	W2	Φd1	A	B	Φd2
CDM6s400	3P	311	340	205	253	17.5	77	44	211	Φ11	88	141	Φ6.5
	4P	311	340	205	253	17.5	77	44	255	Φ11	132	141	Φ6.5
CDM6s630	3P	341	381	211	282	17.5	92	58	253	Φ13	116	140	Φ6.5
	4P	341	381	211	282	17.5	92	58	311	Φ13	174	140	Φ6.5
CDM6s800	3P	367	410	241	238	26	73	70	289	Φ13	140	131	Φ6.5
	4P	367	410	241	238	26	73	70	359	Φ13	210	131	Φ6.5

CDM6s Moulded Case Circuit Breaker

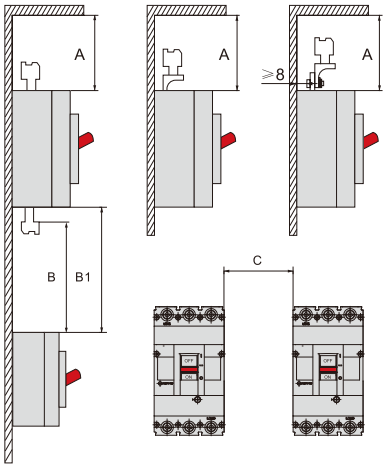
Standard: IEC 60947-2



CDM6s 63A-800A 3P CDM6s 63A-800A 4P

- CDM6s 63A-800A Fixed and Plug-in Circuit Breaker Connection Hole-opening Dimension

Type of Circuit Breaker	Pole No.	Exposure of Front Cover and Pull-out Handle			Exposure of Pull-out Handle Only		
		W1	L1	L11	W2	L2	L21
CDM6s63	3P	76	77	38.5	29	53	27
	4P	101	77	38.5	29	53	27
CDM6s100	3P	92	88	42	35	60	30
	4P	122	88	42	35	60	30
CDM6s250	3P	107	102	51	35	60	30
	4P	142	102	51	35	60	30
CDM6s400	3P	140	180	90	61	102	53
	4P	184	180	90	61	102	53
CDM6s630	3P	182	180	90	65	102	53
	4P	240	180	90	65	102	53
CDM6s800	3P	210	200	100	65	102	51
	4P	280	200	100	65	102	51

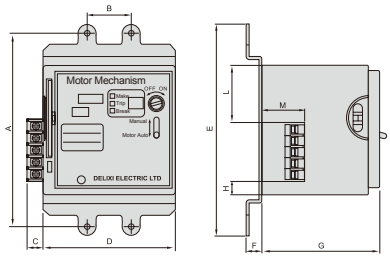


- Safety Distance

Type of Circuit Breaker	A(mm)	B(mm)	B1(mm)	C(mm)
CDM6s63	60	60	Length of Exposed Conductor +B	30
CDM6s100	60	60		30
CDM6s250	60	60		30
CDM6s400	110	110		70
CDM6s630	110	110		70
CDM6s800	110	110		70

Remark: no matter whether the products have the accessories, the distance between the products must meet the requirements of C distance.

Installation Dimension

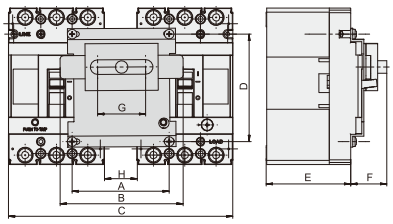


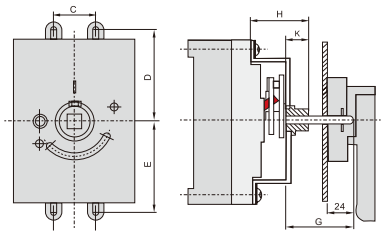
- AC Motor Mechanism

Type of Circuit Breaker	A	B	C	D	E	F	G	H	L	M
CDM6s63	117	25	11	76	128	2	80	8.5	38.5	28.5
CDM6s100	129	30	11	90	144	14	80	8.5	38.5	28.5
CDM6s250	126	35	11	104	138	13	80	8.5	38.5	28.5
CDM6s400	215	44	11	140	232	22	112	12	97.5	28.5
CDM6s630	200	58	11	140	216	17	112	12	97.5	28.5
CDM6s800	243	70	11	150	260	16	112	12	97.5	28.5

CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2





● CDM6s63-800 Frame (3P) Mechanical Interlock Dimension

Type of Circuit Breaker	Breaking Capacity Level	A	B	C	D	E	F	G	H
CDM6s63	L,S	80	116.5	181	100	67.5	38	35.5	29
	M,T	80	116.5	181	100	76.5	38	35.5	29
CDM6s100	L,S	90	117	212	103	62.5	38	47	28
	M,T	90	117	212	103	81	38	47	28
CDM6s250	L,S	99	136	241	143	91.5	38	46	27
	M,T	99	136	241	143	99	38	46	27
CDM6s400	L/S/M/T	40	190	309.5	215	97.5	43	57	29.5
CDM6s630	L/S/M/T	62	239	415.5	199.5	100	43	55	51.5
CDM6s800	L/S/M/T	51	241	459	243	97.5	45.5	55	39

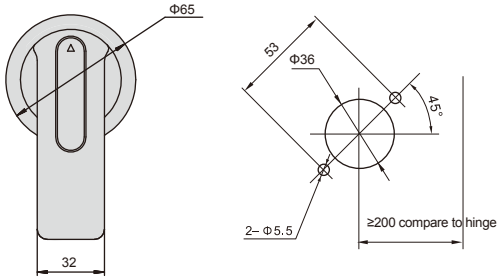
● CDM6s63-800 Frame Extension Rotary Handle Base Dimension

Type of Circuit Breaker	C	D	E	H	K
CDM6s63	25	50	50	52	20
CDM6s100	30	51.5	51.5	54	20
CDM6s250	35	71.5	71.5	56	20
CDM6s400	44	107.5	107.5	76	20
CDM6s630	58	100	100	74	20
CDM6s800	70	121.5	121.5	76	20

Remark: the shortest distance of G connecting rod is 50 mm, and ex-factory standard configuration is 150mm, please contact the factory, if the special customization is required.

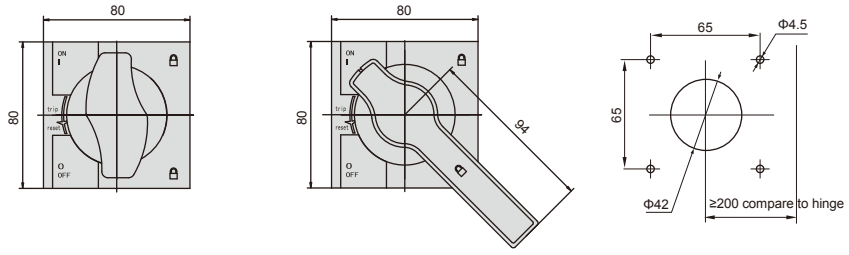
● CDM6s63-800 Frame Extension Rotary Handle

Round



CDM6s63, CDM6s100 and CDM6s250 is 65 or 95 for option, the default value is 65.
CDM6s400, CDM6s630 and CDM6s800 is 95 or 125 for option, the default value is 95.

Square



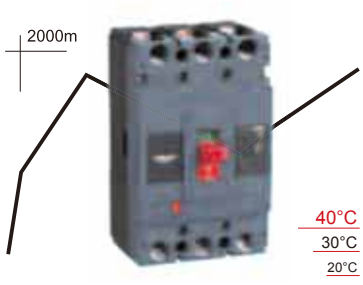
CDM6s63,CDM6s100,CDM6s250 CDM6s400,CDM6s630,CDM6s800

CDM6s Moulded Case Circuit Breaker

Standard: IEC 60947-2

Impact of High Temperature on Tipping Release Performance

When environmental temperature is over 40°C, small changes have taken place on overload protection properties. In tripping release time /current curve, the Ir setting value of the circuit breaker must be corrected as per the following factors.



Type of Circuit Breaker	Ambient Temperature °C				
	40	45	50	55	60
CDM6s 63	1	0.94	0.88	0.80	0.72
CDM6s 100	1	0.95	0.89	0.84	0.76
CDM6s 250	1	0.95	0.91	0.87	0.82
CDM6s 400	1	0.94	0.87	0.81	0.73
CDM6s 630	1	0.93	0.88	0.83	0.76
CDM6s 800	1	0.88	0.83	0.79	0.76

Impact of Altitude on Tipping Release Performance

There is no impact on the performance of the circuit breaker when the height is below 2000m. But when it is over 2000m, the falling factors as air insulation properties and cooling capability shall be considered; the correction factors given in the table below are applicable for the conditions of the height for the installation over 2000m, the breaking capacity of the circuit breaker remains unchanged.

Altitude (m)	2000	3000	4000	5000
Max.Working Voltage (V)	415	350	310	270
30°C Thermal Rated Value (A)	In	0.96In	0.93In	0.9In
Average Isolation Voltage (V)	800	700	600	500
Dielectric Strength (V)	3000	2500	2100	1800

3-Pole (W) Total Power Loss

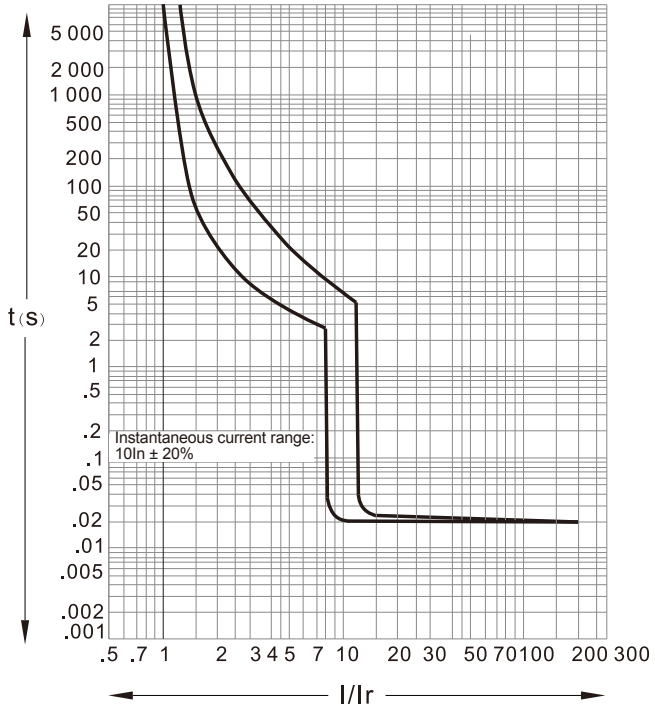
Type of Circuit Breaker	Power-up Current	Front Connection Wiring (Standard)	Rear Connection Wiring	Plug-in Wiring
CDM6s63	63A	26	29	29
CDM6s100	100A	40	50	50
CDM6s250	250A	63	90	90
CDM6s400	400A	103	110	130
CDM6s630	630A	160	190	220
CDM6s800	800A	200	230	290

CDM6s Moulded Case Circuit Breaker

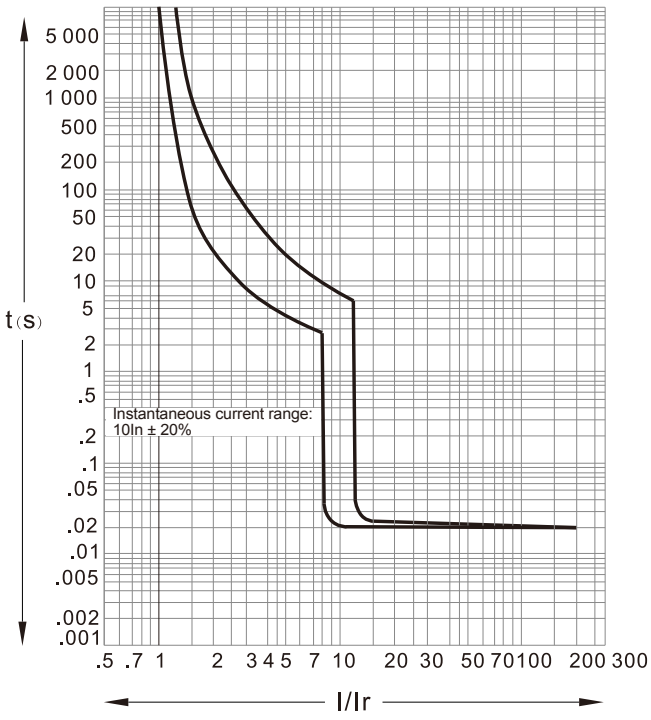
Standard: IEC 60947-2

Tripping Release Curve

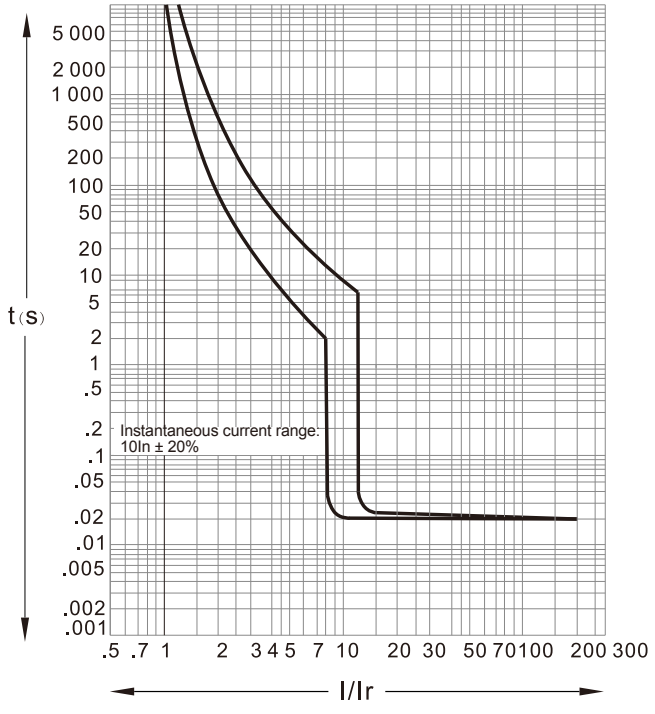
- CDM6s63 10A-63A, the black line is used for the distribution.



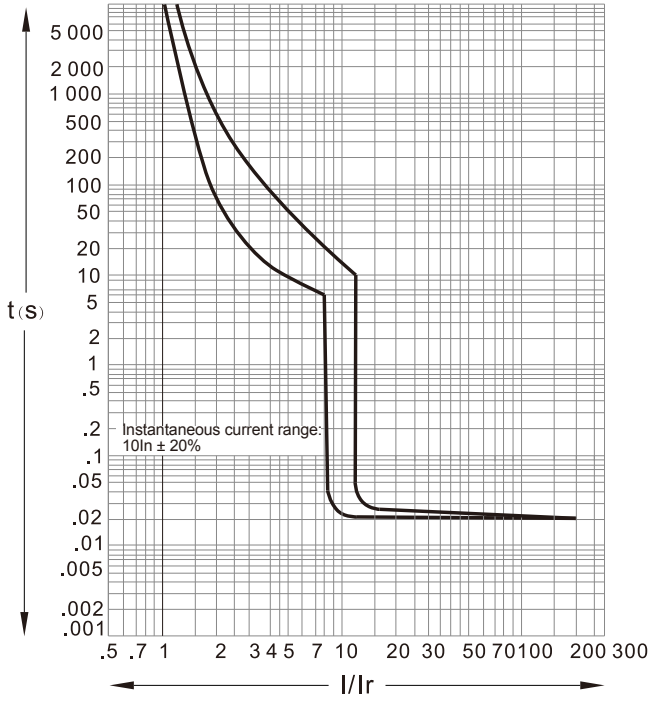
- CDM6s100 16A-50A, the black line is used for the distribution.



- CDM6s100 63A-100A, the black line is used for the distribution.



- CDM6s250 100A-250A, the black line is used for the distribution.

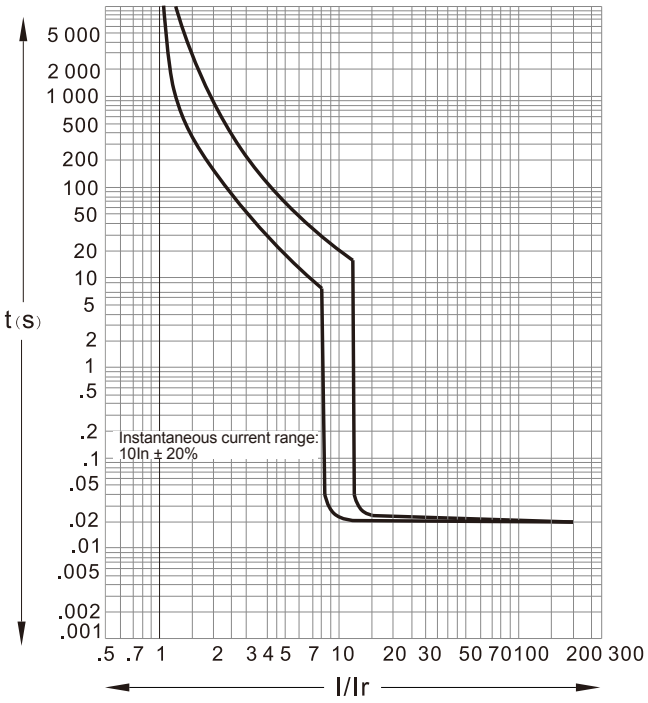


CDM6s Moulded Case Circuit Breaker

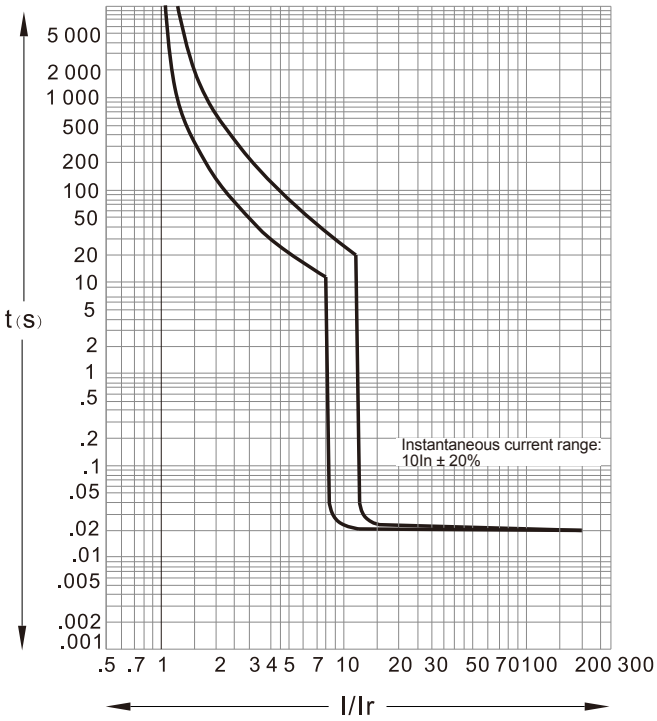
Standard: IEC 60947-2

Tripping Release Curve

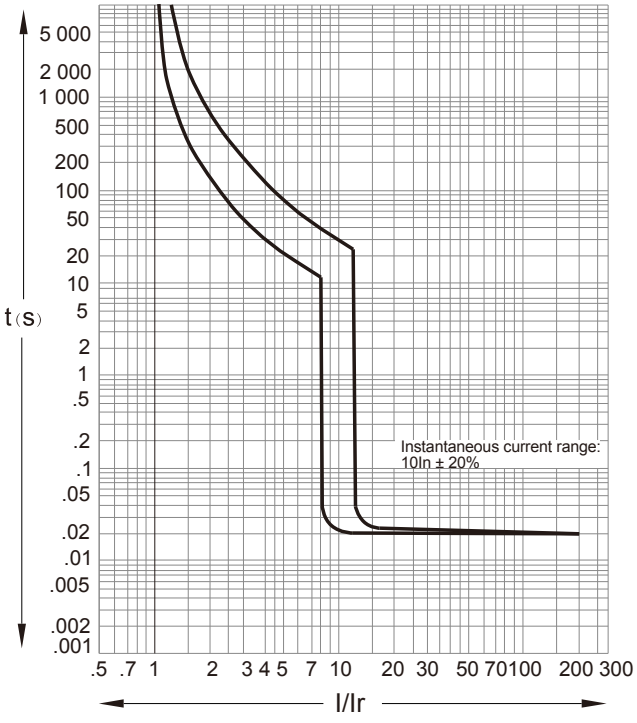
- CDM6s400 200A-400A, the black line is used for the power distribution.



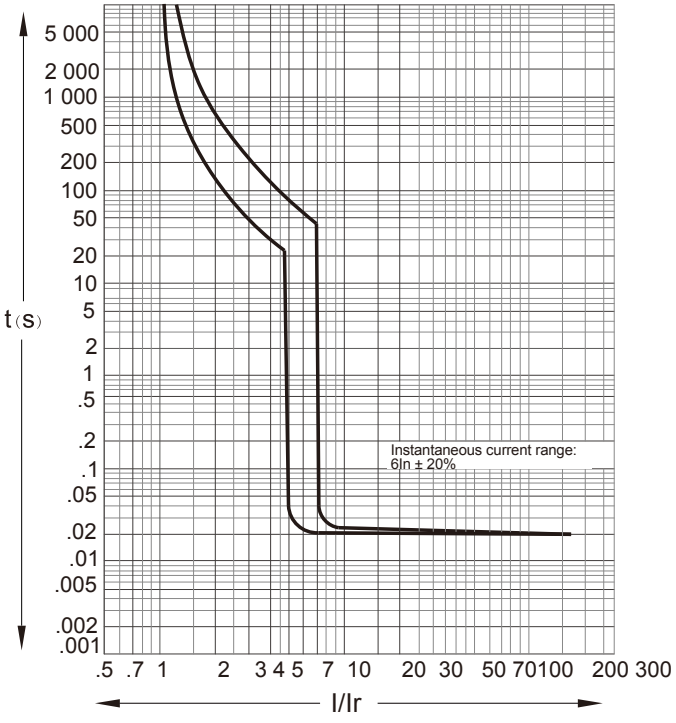
- CDM6s630 400A-630A is used for the power distribution.



- CDM6s800 400A-630A is used for the power distribution.



- CDM6s800 700A-800A is used for the power distribution.



CDM1 Moulded Case Circuit Breaker

Standard: IEC 60947-2

Function

CDM1 moulded case circuit breaker provide:

- Provide protection for indirect contact.
- To protect power line and equipments against overload, undervoltage and short-circuit faults (In≤400A)
- Under normal circumstances can be as infrequent line conversion and motor frequent start.





Order Information

Type		In A	Reference	
			Type M	Type L
CDM1-63	**3P**	10	CDM163M103	CDM163L103
		16	CDM163M163	CDM163L163
		20	CDM163M203	CDM163L203
		25	CDM163M253	CDM163L253
		32	CDM163M323	CDM163L323
		40	CDM163M403	CDM163L403
		50	CDM163M503	CDM163L503
		63	CDM163M633	CDM163L633
	4P	10	CDM163M104	--
		16	CDM163M164	--
		20	CDM163M204	--
		25	CDM163M254	--
		32	CDM163M324	--
		40	CDM163M404	--
		50	CDM163M504	--
		63	CDM163M634	--
CDM1-100	**2P**	16	CDM1100M162	--
		20	CDM1100M202	--
		25	CDM1100M252	--
		32	CDM1100M322	--
		40	CDM1100M402	--
		50	CDM1100M502	--
		63	CDM1100M632	--
		80	CDM1100M802	--
		100	CDM1100M1002	--
	3P	16	CDM1100M163	CDM1100L163
		20	CDM1100M203	CDM1100L203
		25	CDM1100M253	CDM1100L253
		32	CDM1100M323	CDM1100L323
		40	CDM1100M403	CDM1100L403
		50	CDM1100M503	CDM1100L503
		63	CDM1100M633	CDM1100L633
		80	CDM1100M803	CDM1100L803
		100	CDM1100M1003	CDM1100L1003
	4P	16	CDM1100M164	--
		20	CDM1100M204	--
		25	CDM1100M254	--
		32	CDM1100M324	--
		40	CDM1100M404	--
		50	CDM1100M504	--
		63	CDM1100M634	--
		80	CDM1100M804	--
		100	CDM1100M1004	--

CDM1 Moulded Case Circuit Breaker

Standard: IEC 60947-2







Order Information

Type		In A	Reference	
			Type M	Type L
CDM1-225	**2P**	100	CDM1225M1002	--
		125	CDM1225M1252	--
		160	CDM1225M1602	--
		180	CDM1225M1802	--
		200	CDM1225M2002	--
		225	CDM1225M2252	--
	3P	100	CDM1225M1003	CDM1225L1003
		125	CDM1225M1253	CDM1225L1253
		160	CDM1225M1603	CDM1225L1603
		180	CDM1225M1803	CDM1225L1803
		200	CDM1225M2003	CDM1225L2003
		225	CDM1225M2253	CDM1225L2253
	4P	100	CDM1225M1004	--
		125	CDM1225M1254	--
		160	CDM1225M1604	--
		180	CDM1225M1804	--
		200	CDM1225M2004	--
		225	CDM1225M2254	--
CDM1-400	**3P**	200	CDM1400M2003	CDM1400L2003
		225	CDM1400M2253	CDM1400L2253
		250	CDM1400M2503	CDM1400L2503
		315	CDM1400M3153	CDM1400L3153
		350	CDM1400M3503	CDM1400L3503
		400	CDM1400M4003	CDM1400L4003
	4P	200	CDM1400M2004	--
		215	CDM1400M2254	--
		250	CDM1400M2504	--
		315	CDM1400M3154	--
		350	CDM1400M3504	--
		400	CDM1400M4004	--
CDM1-630	**3P**	400	CDM1630M4003	CDM1630L4003
		500	CDM1630M5003	CDM1630L5003
		630	CDM1630M6303	CDM1630L6303
	4P	400	CDM1630M4004	--
		500	CDM1630M5004	--
		630	CDM1630M6304	--
CDM1-800	**3P**	400	CDM1800M4003	CDM1800L4003
		500	CDM1800M5003	CDM1800L5003
		630	CDM1800M6303	CDM1800L6303
		700	CDM1800M7003	CDM1800L7003
		800	CDM1800M8003	CDM1800L8003
	4P	400	CDM1800M4004	--
		500	CDM1800M5004	--
		630	CDM1800M6304	--
		700	CDM1800M7004	--
		800	CDM1800M8004	--
CDM1-1250	**3P**	700	CDM11250M7003	--
		800	CDM11250M8003	--
		1000	CDM11250M10003	--
		1250	CDM11250M12503	--

Note: The connection mode for CDM1 is the fixed type front connection.

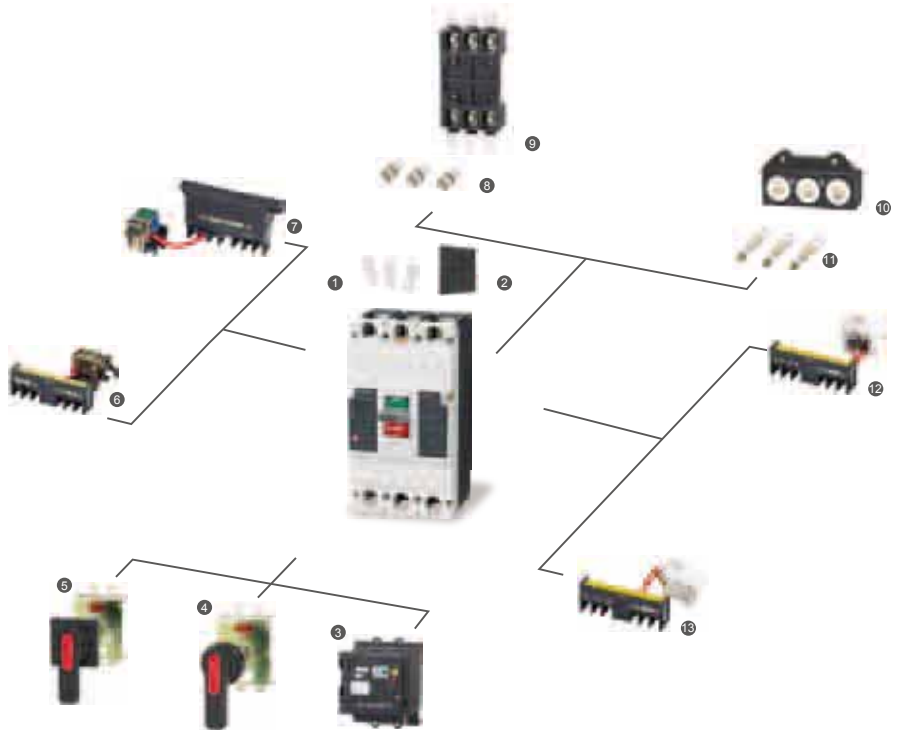
CDM1 Moulded Case Circuit Breaker

Standard: IEC 60947-2

Order Information for Assessories

Voltage (V)	Type	Reference					
		MN	MX	OF	SD	TR(Round Handle)	TS(Square Handle)
230V AC 400V AC	**CDM1-63**	CDM163MN230* CDM163MN400*	CDM163MX230* CDM163MX400*	CDM163OF*	CDM163SD*	CDM163TR	CDM163TS
	CDM1-100	CDM1100MN230* CDM1100MN400*	CDM1100MX230* CDM1100MX400*	CDM1100OF*	CDM1100SD*	CDM1100TR	CDM1100TS
	CDM1-225	CDM1225MN230* CDM1225MN400*	CDM1225MX230* CDM1225MX400*	CDM1225OF*	CDM1225SD*	CDM1225TR	CDM1225TS
	CDM1-400	CDM1400MN230* CDM1400MN400*	CDM1400MX230* CDM1400MX400*	CDM1400OF*	CDM1400SD*	CDM1400TR	CDM1400TS
	CDM1-630	CDM1630MN230* CDM1630MN400*	CDM1630MX230* CDM1630MX400*	CDM1630OF*	CDM1630SD*	CDM1630TR	CDM1630TS
	CDM1-800	CDM1800MN230* CDM1800MN400*	CDM1800MX230* CDM1800MX400*	CDM1800OF*	CDM1800SD*	CDM1800TR	CDM1800TS
	CDM1-1250	CDM11250MN230* CDM11250MN400*	CDM11250MX230* CDM11250MX400*	CDM11250OF*			

Note 1: MN and MX could be sold with CDM1 product and installed by manufactory
2: *means the connecting type;
Blank: terminal connection;
D5: 500mm wire connection



1	Connection	6	Shunt release	11	Stationary type rear connection
2	Phase partition	7	Undervoltage release	12	Alarm contactor
3	Motor mechanism	8	Plug-type connection terminal	13	Auxiliary contactor
4	Round handle mechanism	9	Plug-type front connection		
5	Quadrate handle mechanism	10	Plug-type rear connection		

CDM1 Moulded Case Circuit Breaker

Standard: IEC 60947-2

Technical Data

■ Main technical parameters are shown in the table below

MCCB	CDM1						
standard	IEC 60947-2						
MCCB	KEMA,SEMKO,CB,CE						
Type	CDM1-63	CDM1-100	CDM1-225	CDM1-400	CDM1-630	CDM1-800	CDM1-1250
Frame size rated current A	63	100	225	400	630	800	1250
Number of poles	3P,4P	2P,3P,4P		3P,4P			3P
Rated frequency Hz	50/60						
Rated current In A	10 16 20 25 32 40 50 63	16 20 25 30 32 40 50 63 80 100	100 125 160 180 200 225	200 350 250 315 400	400 500 630	400 500 630 700 800	700 800 1000 1250
Rated insulation voltage Ui V	690	800		690/750		690	
Rated impulse withstand voltage Uimp V	6000	8000		6000/8000		6000	
Rated operational voltage Ue V	400	400 / 690		400	400 690	400	
Icu kA Type M	50	50	50	70	65	70	85
(400V) Type L	25	35	35	50	45	50	-
Ics kA Type M	30	30	30	40	42	40	45
(400V) Type L	18	26	26	30	34	30	-
Arcing distance mm	50			100			
Durability Cycles/h	120	120	120	60	60	20	20
Electrical	4000	1500	1000	1000	1000	500	500
Mechanical	6000	8500	7000	4000	4000	2500	2500
Power consumption (W)							
Fixed	25	40	60	40	150	135	240
Plug-in	30	50	75	110	200	190	300

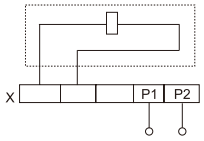
■ Working Conditions

- Protection Level: IP20
- Pollution Level: III
- Correct Range of Working Environment: average temperature less than+35°C within 24 hours for - 5°C ~ + 40°C (please contact the manufacturer when over the range)
- Altitude of installation shall be less than 2000 m, and the capacityreduction is adopted for being used at 2000+ m.
- The relative temperature of the atmosphere is not more than 50% when the highest temperature is + 40°C, and the relative temperature is higher under lower temperature (e.g. 90% at +20°C), and the condensation formed on the surface of the products for temperature change shall be considered.

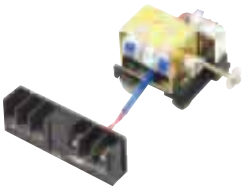
■ Constructional features

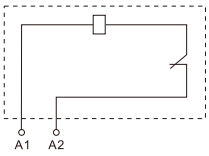
- Thermamagnetic release offers instantaneous trip against short-circuit and long time delay trip against overcurrent
- The circuit breaker can be fixed type or plug-in type
- For 4-pole circuit breakers:
  N-pole without overcurrent release, it switches on and off with other poles (N-pole lead-make, lag-break)
- Various accessories can be attached to the circuit breaker to extend its functions, such as undervoltage release, shunt release, ON/OFF position indication contact, and tripped position indication contact, for detail see the accessories part





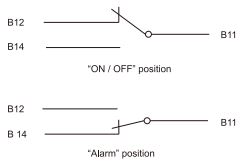
power source input



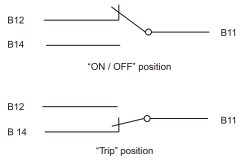


power source input





Auxiliary Contact wiring diagram



Arm Switch wiring diagram

Accessories

The accessories are fixed into the circuit breaker.

- ■ Remote tripping:
  MX or MN releases are used to trip the circuit breaker.
- ■ This release trips the circuit breaker when the control voltage drops below the tripping threshold:
- □ Tripping threshold between 35% to 70% of the rated voltage
- □ Circuit-breaker closing is possible only if the voltage exceeds 85% of the rated voltage.
- ■ Circuit-breaker tripping by an MN release meets the requirements of standard IEC 60947-2.

MN (Undervoltage Release)

Technical data	
Rated operating voltage Ue(V)	230V, 400V AC
Drop-out voltage(V)	(0.35~0.7) Ue
Pick-up voltage(V)	(0.85~1.1) Ue

- ■ MX shunt release:
- □ The MX release trips the circuit breaker when the control voltage rises above 0.7 x Un.
- □ Control signals can be of the impulse type (u 20 ms) or maintained.

MX (Shunt Release)

Technical data	
Rated control voltage U_S(V)	230V, 400V AC
Operating voltage(V)	(0.7~1.1) U_S

- ■ Indication contacts:
- □ These common-point changeover contacts can be used to remotely indicate circuit-breaker status information for indications, electrical locking, relays, etc.
- □ They comply with international standard IEC 60947-5.
- ■ Functions:
- □ OF (ON/OFF): indicates the position of the circuit-breaker contacts.
- □ SD (trip indication): indicates that the circuit-breaker has tripped due to: ● overload ● short-circuit ● operation of a voltage release ● operation of the“push-to-trip” button Returns to de-energised state when the circuit breaker is reset.

OF (Auxiliary Contactor)

Technical data	
Rated thermal current I_{th} 3A	
Rated operating current	0.4A (400V AC)
1NO+1NC (Change over)	
2NO+2NC (Change over)	

SD (Alarm Contactor)

Technical data	
Rated thermal current I_{th} 3A	
Rated operating current	0.26A (400V AC) 0.4A (400V AC)
1NO+1NC	

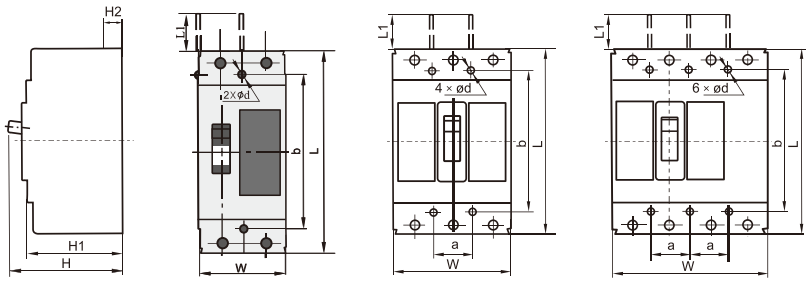
CDM1 Moulded Case Circuit Breaker

Standard: IEC 60947-2

Overall Dimensions

Type	Poles	Overall Dimensions						Install dimensions		
		L	L1	W	H	H1	H2	a	b	Φd
CDM1-63L	3	135	21	76	89	74	21	25	117	3.5
CDM1-63M	3	135	21	76	99	82	28	25	117	3.5
CDM1-63M	4	135	21	103	99	82	28	25	117	3.5
CDM1-100M	2	150	51	65	103	87	24	--	129	4.5
CDM1-100L	3	150	51	92	87	68	25	30	129	4.5
CDM1-100M	3	150	51	92	103	87	24	30	129	4.5
CDM1-100M	4	150	51	122	103	87	24	30	129	4.5
CDM1-225M	2	165	64	75	124	104	24	--	126	5.5
CDM1-225L	3	165	64	107	108	87	24	35	126	5.5
CDM1-225M	3	165	64	107	124	104	24	35	126	5.5
CDM1-225M	4	165	64	142	124	104	24	35	126	5.5
CDM1-400L,M	3	257	105	140	146	100	36	44	215	6.5
CDM1-400M	4	257	105	184	146	100	36	44	215	6.5
CDM1-630L,M	3	270	118	182	160	108	41	58	200	7
CDM1-630M	4	270	118	240	160	108	41	58	200	7
CDM1-800L,M	3	280	102	210	146	103	34	70	243	7
CDM1-800M	4	280	102	280	146	103	34	70	243	7
CDM1-1250M	3	406	104	210	190	140.5	58	70	375	10

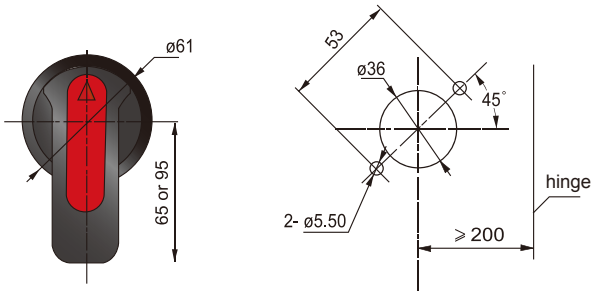
Unit:mm



2P 3P 4P



■ Overall and cut-out diagram of round handle

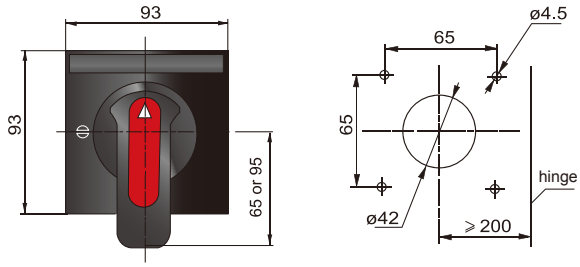


CDM1 Moulded Case Circuit Breaker

Standard: IEC 60947-2

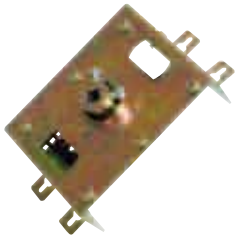
■ Overall and cut-out diagram of square handle

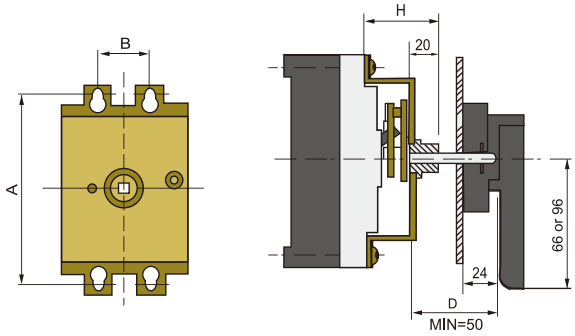




■ Centrally revolvable type

Unit:mm



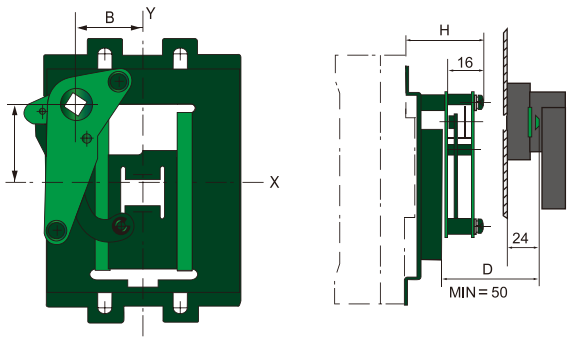


Dimension for handle mechanism(centrally revolvable type)			
Frame	A	B	H
CDM1-63	117	25	49
CDM1-100	129	30	54
CDM1-225	126	35	54
CDM1-400	215	44	76
CDM1-630	200	58	83
CDM1-800	243	70	76

■ Eccentrically rotating

Unit:mm

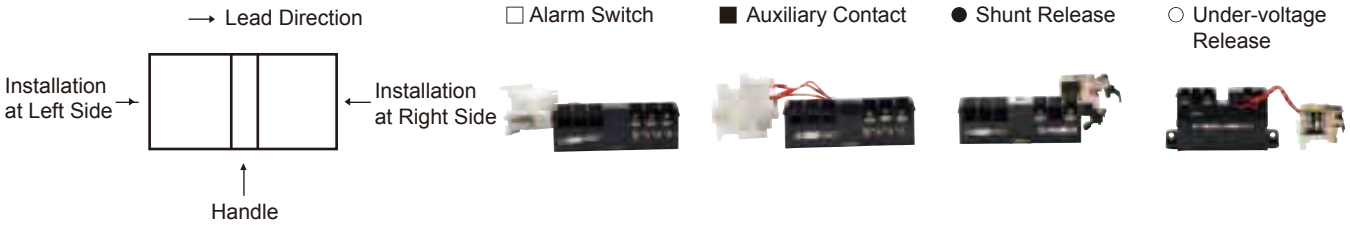


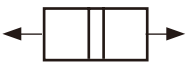


Dimension for handle mechanism(eccentrically revolvable type)			
Frame	A	B	H
CDM1-100	35	11.5	46
CDM1-225	35	31	48
CDM1-400	65	15	61
CDM1-630	60	15	61
CDM1-800	48	15	66

Installation Location of Accessories

Installation Method for Tripping Release and Accessories Code

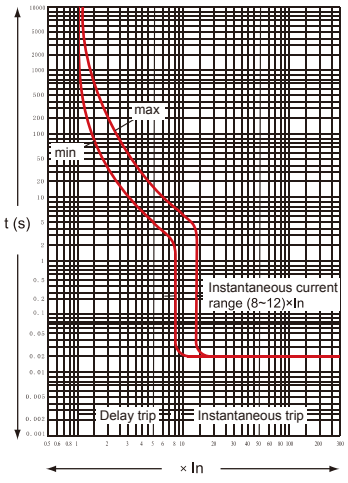


Name of Accessory	Product Type				
	CDM1-63 CDM1-100 CDM1-225	CDM1-400	CDM1-630	CDM1-800	CDM1-1250
Alarm Switch					
Shunt Release					
Auxiliary Contact					
Undervoltage Release					
Auxiliary Contact Shunt Release					
Shunt Release Undervoltage Release					
Two Group Auxiliary Contact					
Auxiliary Contact Undervoltage Release					
Shunt Release Alarm Switch					
Auxiliary Contact Alarm Switch					
Undervoltage Release Alarm Switch					
Shunt Release Auxiliary Contact Alarm Switch					
Two Group Auxiliary Contact Alarm Swtich					
Auxiliary Contact Undervoltage Release Alarm Switch					

CDM1 Moulded Case Circuit Breaker

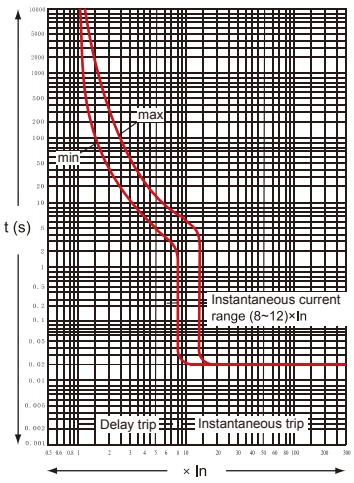
Standard: IEC 60947-2

Characteristic Curve of Circuit Breaker



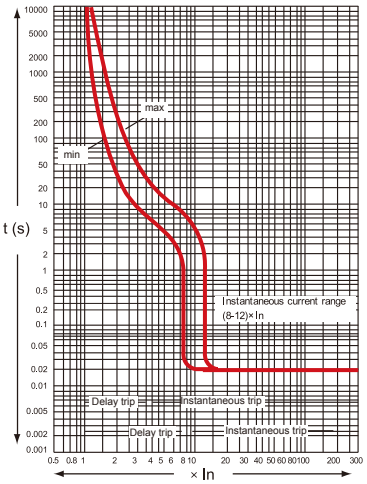
For power distribution

CDM1-63 Time / current characteristic curve



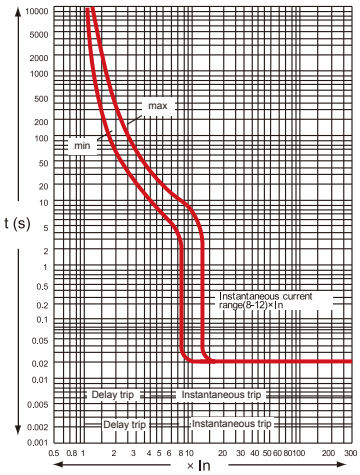
For power distribution

CDM1-100 Time / current characteristic curve



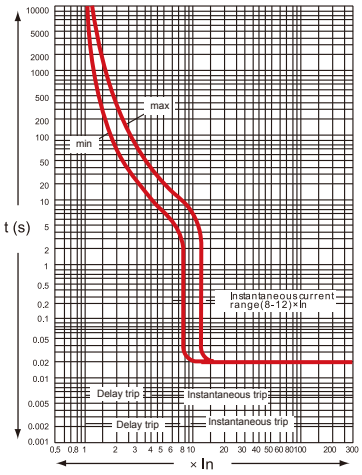
For power distribution

CDM1-225 Time / current characteristic curve



For power distribution

CDM1-400 Time / current characteristic curve



For power distribution

CDM1-630 Time / current characteristic curve

CDM1LE Earth-Leakage Circuit Breaker

Standard: IEC 60947-2

Function

- ■ Constructional features
- □ Thermamagnetic release offers instantaneous trip against short-circuit and long time delay trip against overcurrent
- □ The residual operating current value can be fixed or adjustable
- □ The residual operating current protection can be with time-delay or without time-delay
- □ Various accessories can be attached to the circuit breaker to extend its functions, such as undervoltage release, shunt release, ON/OFF position indication contact, and tripped position indication contact, for detail see the position indication contact, for detail see the accessories part

Coding System

Country code	Product name	Frame current	Breaking capacity	Current	Pole	Usage	Residual current	N Pole
CD	**M1LE**	**100**	**M**	**16**	**3**		**L**	**A**
		100:100A 225:225A 400:400A	L: L type M: M type	16: 16A … 400: 400A	3:3 pole 4:4 pole	Blank for distribution protection	S:30mA Y:100mA T:300mA F:500mA KY:30/100/500mA KT:100/300/500mA	For CDM1LE 4pole: A=A type (Direct connect) B=B type (Direct connect, lead-make, lag break)

CDM1LE Earth-Leakage Circuit Breaker

Standard: IEC 60947-2





Order Information

Type		Rated current In A	Reference Type M	Reference Type L
CDM1LE-100	**3P**	16	CDM1LE100M163＊	CDM1LE100L163＊
		20	CDM1LE100M203＊	CDM1LE100L203＊
		25	CDM1LE100M253＊	CDM1LE100L253＊
		32	CDM1LE100M323＊	CDM1LE100L323＊
		40	CDM1LE100M403＊	CDM1LE100L403＊
		50	CDM1LE100M503＊	CDM1LE100L503＊
		63	CDM1LE100M633＊	CDM1LE100L633＊
		80	CDM1LE100M803＊	CDM1LE100L803＊
		100	CDM1LE100M1003＊	CDM1LE100L1003＊
	4P A	16	CDM1LE100M164＊A	CDM1LE100L164＊A
		20	CDM1LE100M204＊A	CDM1LE100L204＊A
		25	CDM1LE100M254＊A	CDM1LE100L254＊A
		32	CDM1LE100M324＊A	CDM1LE100L324＊A
		40	CDM1LE100M404＊A	CDM1LE100L404＊A
		50	CDM1LE100M504＊A	CDM1LE100L504＊A
		63	CDM1LE100M634＊A	CDM1LE100L634＊A
		80	CDM1LE100M804＊A	CDM1LE100L804＊A
		100	CDM1LE100M1004＊A	CDM1LE100L1004＊A
	4P B	16	CDM1LE100M164＊B	CDM1LE100L164＊B
		20	CDM1LE100M204＊B	CDM1LE100L204＊B
		25	CDM1LE100M254＊B	CDM1LE100L254＊B
		32	CDM1LE100M324＊B	CDM1LE100L324＊B
		40	CDM1LE100M404＊B	CDM1LE100L404＊B
		50	CDM1LE100M504＊B	CDM1LE100L504＊B
		63	CDM1LE100M634＊B	CDM1LE100L634＊B
		80	CDM1LE100M804＊B	CDM1LE100L804＊B
		100	CDM1LE100M1004＊B	CDM1LE100L1004＊B
CDM1LE-225	**3P**	100	CDM1LE225M1003＊	CDM1LE225L1003＊
		125	CDM1LE225M1253＊	CDM1LE225L1253＊
		140	CDM1LE225M1403＊	CDM1LE225L1403＊
		160	CDM1LE225M1603＊	CDM1LE225L1603＊
		180	CDM1LE225M1803＊	CDM1LE225L1803＊
		200	CDM1LE225M2003＊	CDM1LE225L2003＊
		225	CDM1LE225M2253＊	CDM1LE225L2253＊
	4P A	100	CDM1LE225M1004＊A	CDM1LE225L1004＊A
		125	CDM1LE225M1254＊A	CDM1LE225L1254＊A
		140	CDM1LE225M1404＊A	CDM1LE225L1404＊A
		160	CDM1LE225M1604＊A	CDM1LE225L1604＊A
		180	CDM1LE225M1804＊A	CDM1LE225L1804＊A
		200	CDM1LE225M2004＊A	CDM1LE225L2004＊A
		225	CDM1LE225M2254＊A	CDM1LE225L2254＊A
	4P B	100	CDM1LE225M1004＊B	CDM1LE225L1004＊B
		125	CDM1LE225M1254＊B	CDM1LE225L1254＊B
		140	CDM1LE225M1404＊B	CDM1LE225L1404＊B
		160	CDM1LE225M1604＊B	CDM1LE225L1604＊B
		180	CDM1LE225M1804＊B	CDM1LE225L1804＊B
		200	CDM1LE225M2004＊B	CDM1LE225L2004＊B
		225	CDM1LE225M2254＊B	CDM1LE225L2254＊B

Note:* express residual current.

CDM1LE Earth-Leakage Circuit Breaker

Standard: IEC 60947-2



Order Information

Type		Rated current In A	Reference	
			Type M	Type L
CDM1LE-400	**3P**	200	CDM1LE400M2003＊	CDM1LE400L2003＊
		250	CDM1LE400M2503＊	CDM1LE400L2503＊
		315	CDM1LE400M3153＊	CDM1LE400L3153＊
		350	CDM1LE400M3503＊	CDM1LE400L3503＊
		400	CDM1LE400M4003＊	CDM1LE400L4003＊
	4P A	200	CDM1LE400M2004＊A	CDM1LE400L2004＊A
		225	CDM1LE400M2254＊A	CDM1LE400L2254＊A
		250	CDM1LE400M2504＊A	CDM1LE400L2504＊A
		315	CDM1LE400M3154＊A	CDM1LE400L3154＊A
		350	CDM1LE400M3504＊A	CDM1LE400L3504＊A
		400	CDM1LE400M4004＊A	CDM1LE400L4004＊A
	4P B	200	CDM1LE400M2004＊B	CDM1LE400L2004＊B
		225	CDM1LE400M2254＊B	CDM1LE400L2254＊B
		250	CDM1LE400M2504＊B	CDM1LE400L2504＊B
		315	CDM1LE400M3154＊B	CDM1LE400L3154＊B
		350	CDM1LE400M3504＊B	CDM1LE400L3504＊B
		400	CDM1LE400M4004＊B	CDM1LE400L4004＊B

Note:* express residual current.

Order Information for Accessories

Voltage (V)	Type	Reference					
		MN	MX	OF	SD	TS(Square Handle)	TR(Round Handle)
230V AC 400V AC	**CDM1LE-100**	CDM1LE100MN230* CDM1LE100MN400*	CDM1LE100MX230* CDM1LE100MX400*	CDM1LE100OF*	CDM1LE100SD*	CDM1LE100TS	CDM1LE100TR
	CDM1LE-225	CDM1LE225MN230* CDM1LE225MN400*	CDM1LE225MX230* CDM1LE225MX400*	CDM1LE225OF*	CDM1LE225SD*	CDM1LE225TS	CDM1LE225TR
	CDM1LE-400	CDM1LE400MN230* CDM1LE400MN400*	CDM1LE400MX230* CDM1LE400MX400*	CDM1LE400OF*	CDM1LE400SD*	CDM1LE400TS	CDM1LE400TR

Note 1: MN and MX could be sold with CDM1LE product and installed by manufactory
2: *means the connecting type;
Blank: terminal connection;
D5: 500mm wire connection

CDM1LE Earth-Leakage Circuit Breaker

Standard: IEC 60947-2

Technical Data

Type		CDM1LE-100	CDM1LE-225	CDM1LE-400
Frame size rated current A		100	225	400
Rated current In A		16 20 25 32 40	100 125 140 160	200 250 315
		50 63 80 100	180 200 225	350 400
Rated frequency Hz		50/60		
Rated insulation voltage Ui V		800		
Rated operational voltage Ue V		400		
Rated impulse withstand voltage Uimp V		8000		
Number of poles		3P, 4P		
Icu kA	Type M	50	50	_
(400V)	Type L	35	35	50
Ics kA	Type M	35	35	_
(400V)	Type L	22	22	30
Rated residual operating current	Without delay	30/100/500	30/100/500	100/300/500
		100/300/500	100/300/500	
I△n (mA)	With delay	100/300/500	100/300/500	100/300/500
Rated residual non-operating current I△n(mA)		1/2 I△n	1/2 I△n	1/2 I△n
Durability	Electrical	1500	1000	1000
	Mechanical	8500	7000	4000
	Total	10000	8000	5000

■ Maximum break time for residual operating current protection

Number of poles		I△n	2 I△n	5 I△n	10 I△n
Max. break	Without delay	0.2	0.1	0.04	0.04
time S	With delay	0.5/1.15/2.15	0.35/1/2	0.25/0.9/1.9	0.25/0.9/1.9

■ Table for 4 pole CDM1LE (Neutral line)

Code	Note
A	N(direct connect)
B	N(direct connect N pole lead-make, lag-break)

■ Constructional features

- Thermamagnetic release offers instantaneous trip against short-circuit and long time delay trip against overcurrent
- The residual operating current value can be fixed or adjusted
- The residual operating current protection can be with time-delay or without time-delay
- Various accessories can be attached to the circuit breaker to extend its functions, such as undervoltage release, shunt release, ON/OFF position indication contact, and tripped position indication contact, for detail see the accessories part

CDM1LE Earth-Leakage Circuit Breaker

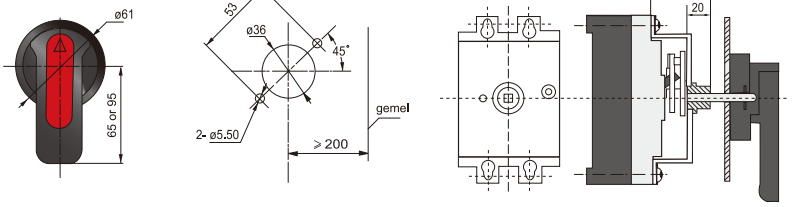
Standard: IEC 60947-2

Handle mechanism

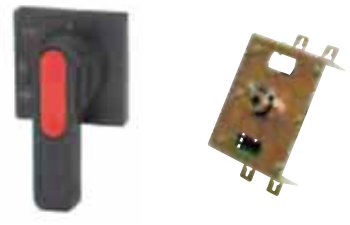
- Centrally revolvable type

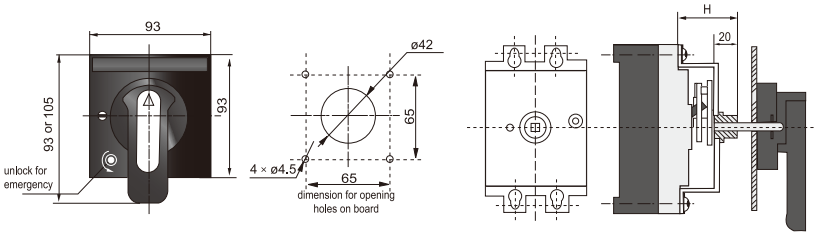
Unit:mm





- Square Handle





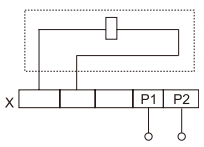
Dimension for handle mechanism			
Frame	**CDM1LE-100**	**CDM1LE-225**	**CDM1LE-400**
Dimension	49	55	74

Accessories

The accessories are fixed into the circuit breaker.

- Remote tripping:
  MX or MN releases are used to trip the circuit breaker.
- This release trips the circuit breaker when the control voltage drops below the trip ping threshold:
  - tripping threshold between 0.35 and 0.7 times the rated voltage
  - circuit-breaker closing is possible only if the voltage exceeds 0.85 times the rated voltage.
- Circuit-breaker tripping by an MN release meets the requirements of standard IEC 60947-2.





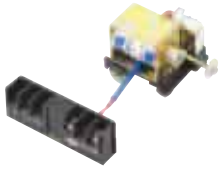
Power source input

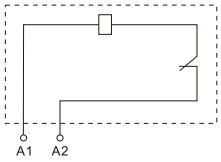
MN (Undervoltage Release)

Technical data	
Rated operating voltage Ue(V)	230V, 400V AC
Drop-out voltage(V)	(0.35~0.7) Ue
Pick-up voltage(V)	(0.85~1.1) Ue

CDM1LE Earth-Leakage Circuit Breaker

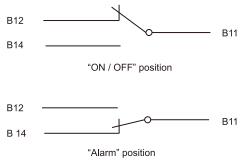
Standard: IEC 60947-2



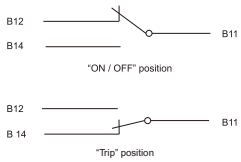


Power source input





Auxiliary Contact wiring diagram



Arm Switch wiring diagram

- MX shunt release:
- The MX release trips the circuit breaker when the control voltage rises above 0.7 x Un.
- Control signals can be of the impulse type (u 20 ms) or maintained.

MX (Shunt Release)

Technical data	
Rated control voltage Us(V)	230V, 400V AC
Operating voltage(V)	(0.7~1.1) Us

- Indication contacts:
- These common-point changeover contacts can be used to remotely indicate circuit-breaker status information for indications, electrical locking, relays, etc.
- They comply with international standard IEC 60947-5.
- Functions:
- OF (ON/OFF): indicates the position of the circuit-breaker contacts.
- SD (trip indication): indicates that the circuit-breaker has tripped due to: ● overload ● short-circuit ● operation of a voltage release ● operation of the“push-to-trip” button Returns to deenergised state when the circuit breaker is reset.

OF (Auxiliary Contactor)

Technical data	
Rated thermal current I^{th} 3A	
Rated operating current	0.4A (400V AC)
1NO+1NC (Change over)	
2NO+2NC (Change over)	

SD (Alarm Contactor)

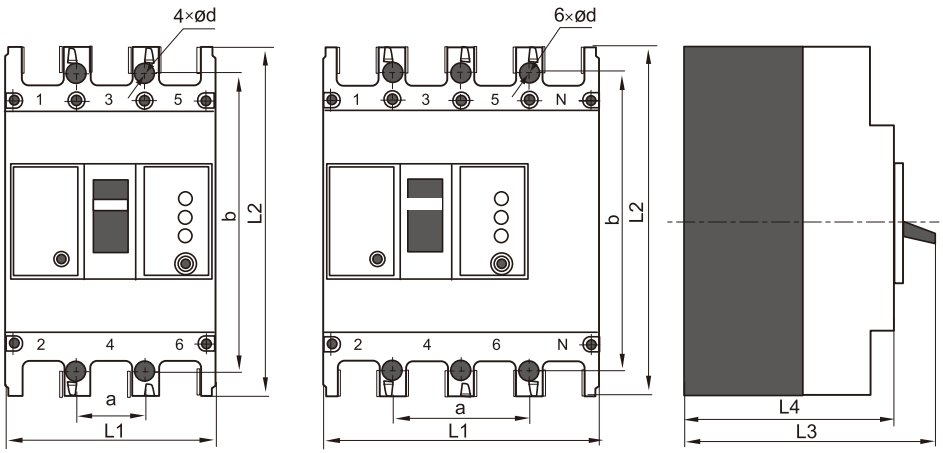
Technical data	
Rated thermal current I^{th} 3A	
Rated operating current	0.26A (400V AC)
	0.4A (400V AC)
1NO+1NC	

CDM1LE Earth-Leakage Circuit Breaker

Standard: IEC 60947-2

Overall Dimensions

Unit:mm



Key to Overall Dimensions

Type	Poles	Overall size				Installation size		
		L1	L2	L3	L4	a	b	Φd
CDM1LE-100L	3	92max	150max	94max	75max	30	129	4×Φ4.5
	4	122max	150max	94max	75max	60	129	6×Φ4.5
CDM1LE-100M	3	92max	150max	110max	92max	30	129	4×Φ4.5
	4	122max	150max	110max	92max	60	129	6×Φ4.5
CDM1LE-225L	3	107max	165max	94max	72max	35	126	4×Φ4.5
	4	142max	165max	94max	72max	70	126	6×Φ4.5
CDM1LE-225M	3	107max	165max	110max	90max	35	126	4×Φ4.5
	4	142max	165max	110max	90max	70	126	6×Φ4.5
CDM1LE-400L,M	3	150max	257max	150max	107max	48	194	4×Φ4.5
	4	198max	257max	150max	107max	95	194	6×Φ6.5

CDW6 Air Circuit Breaker

Standard: IEC 60947-2



Major Parameter

- Frame
  1000A、2000A、3200A、6300A
- Rated current In (A)
  200 ~ 6300
- Rated voltage Ue (A)
  400
- Number of poles
  3，4
- Installation way
  Fixed, Drawout



Intelligent controller

- ECW-L
  Basic function Protection(L,S,I & G)
- ECW-M
  Basic protection,Basic measurement,Miscellaneous function
- ECW-H
  Basic and Higher protection,Various measurement,Miscellaneous & Communication

Accessory

- Long-distance operation
  Shunt release,Undervoltage release,Closing release,Motor mechanism & Auxiliary contact



- Circumscribed Transformer
  N-phase circumscribed transformer
- Lock
  Divide release lock
- Connection
  Cable mechanical interlock,connecting-rod type mechanical interlock,Phase barrier
- Control module accessory
  Alternating current power supply module,Direct-current power supply module,Relay module
- Operation
  Doorframe

CDW6 Air Circuit Breaker

Standard: IEC 60947-2

CE KEMA KEUR

Order Information

1 Select current



1000A Frame 2000A Frame 3200A Frame



6300A Frame

①Select frame		②Select current
10:1000A Frame		
Icu	42	02: 200A
Ics	30	04: 400A
Icw(0.5s)	30	06: 630A
		08: 800A
		10: 1000A
20:2000A Frame		
Icu	80	06: 630A
Ics	50	08: 800A
Icw(1s)	50	10: 1000A
		12: 1250A
		16: 1600A
		20: 2000A
32:3200A Frame		
Icu	80	20: 2000A
Ics	80	25: 2500A
Icw(1s)	65	32: 3200A
63:6300A Frame		
Icu	120	40: 4000A
Ics	100	50: 5000A
Icw(1s)	85	63: 6300A (Exclude 4P)

Doorframe and phase barrierare acquiescent

Product name		Frame	Rated current		
W6		10: 1000	02: 200A	12: 1250A	40: 4000A
		20: 2000	04: 400A	16: 1600A	50: 5000A
		32: 3200	06: 630A	20: 2000A	63: 6300A (Exclude 4P)
		63: 6300	08: 800A	25: 2500A	
			10: 1000A	32: 3200A	
		↓	↓		
W6	+	20	16		+

↓

For example W620163DHDD54L

CDW6 Air Circuit Breaker

Standard: IEC 60947-2

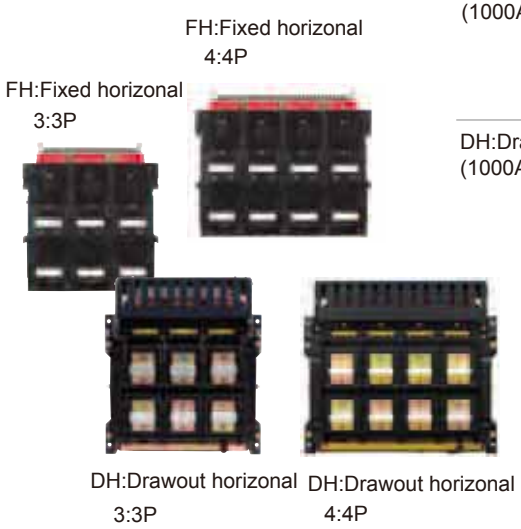
Select of breaker

2 Select form

① Select installation way

FH:Fixed horizonal 3:3P
(1000AF-3200AF) 4:4P

DH:Drawout horizonal 3:3P
(1000AF-6300AF) 4:4P



FH:Fixed horizonal 4:4P

FH:Fixed horizonal 3:3P

DH:Drawout horizonal 3:3P

DH:Drawout horizonal 4:4P

3 Select control loop



Motor mechanism (MCH)



Closing voltage release (XF)



Shunt release (MX)



Undervoltage release (MN)



Undervoltage delayed release (MNR)



Auxiliary contact

Pole	Installation method		Motor mechanism(MCH)+Closing release(XF)	
3: 3P	DH:Drawout horizonal (1000AF-6300AF)		D : DC220V	
4: 4P	FH:Fixed horizonal (1000AF-3200AF)		N : AC230V	
			V : AC400V	
↓	↓		↓	
3	DH	+	D	+

CDW6 Air Circuit Breaker

Standard: IEC 60947-2

①Select
Motor mechanism (MCH)
Closing release (XF)

②Select
Shunt release (MX)
Undervoltage release

③Select
Auxilary contact

4 Select intelligent controller

①Select intelligent controller

Motor mechanism (MCH) + Closing release (XF) (Must Option)

D : DC220V
N : AC230V
V : AC400V

Shunt release(MX) (At least choose one of the Acc.from MX/MN/MNR)

D : DC220V
N : AC230V
V : AC400V
5 : Without shunt release

Undervoltage release (MN/MNR)

N : AC230V
V : AC400V
P : With undervoltage delayed AC230V
T : With undervoltage delayed AC400V
5 : Without undervoltage release

Auxilary contact (Must Option)
4 : four open and four close (1000AF)
6 : five open and five close (2000-6300AF)



ECW-L



ECW-M



ECW-H

Select intelligent controller

ECW-L: basic protection

ECW-M: standard protection

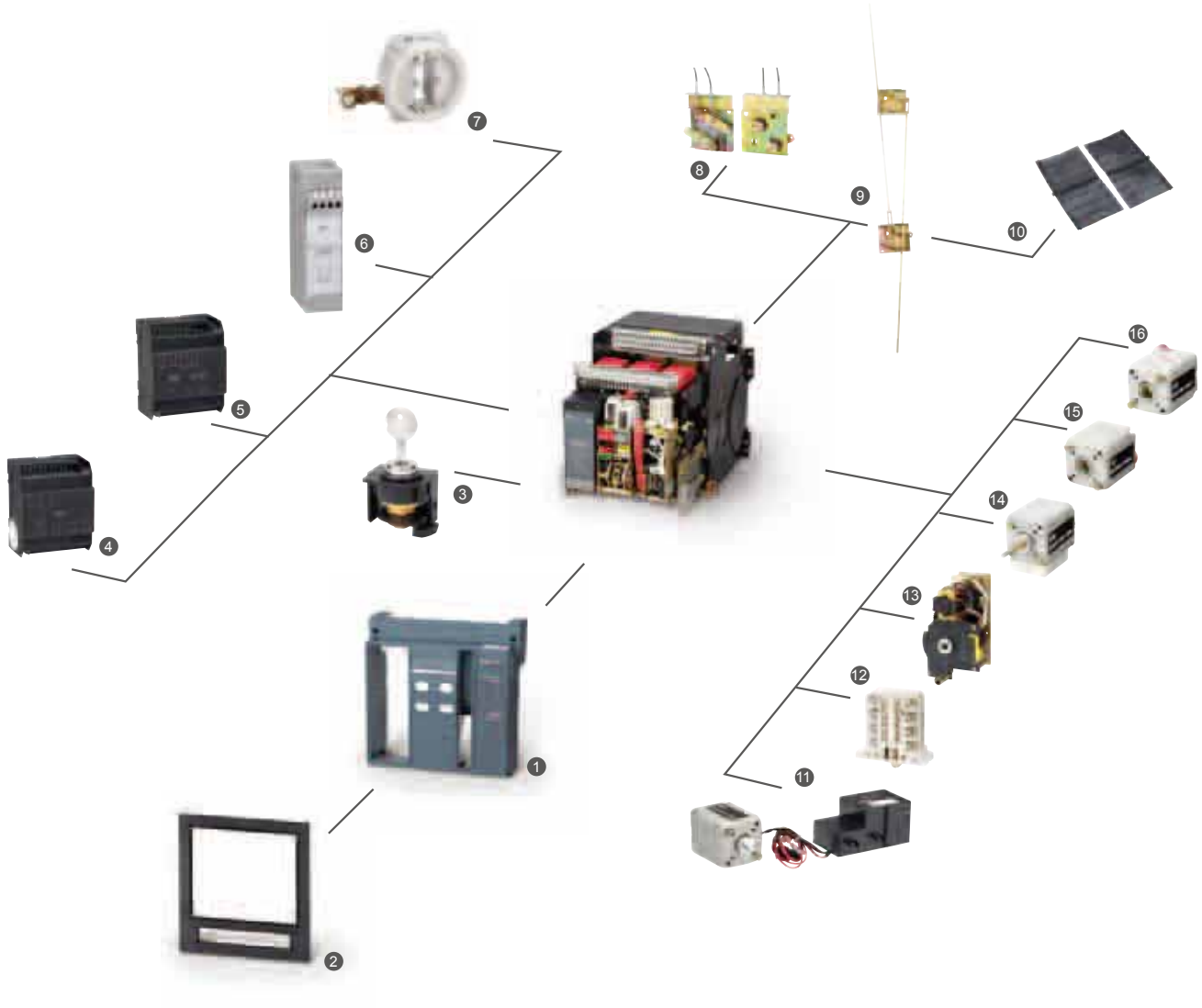
ECW-H:advanced protection

Shunt release(MX)	Undervoltage release	Auxilary contact		ESW series intelligent controller
D : DC220V	N : AC230V	4 : four open and four close		M : ECW-M
N : AC230V	V : AC400V	6 : five open and five close		L : ECW-L
V : AC400V	P : With undervoltage delayed AC230V			H : ECW-H
5 : Without shunt	T : With undervoltage delayed AC400V			
release	5 : Without undervoltage release			
↓	↓	↓		↓
D	5	4	+	L

CDW6 Air Circuit Breaker

Standard: IEC 60947-2

The Indicator Diagram of CDW6 Air Circuit Breaker



1	Veil	5	Relay module	9	Connecting-rod type mechanical interlock	13	Motor mechanism
2	Doorframe	6	DC power supply module	10	Phase barrier	14	Undervoltage release
3	Key lock	7	N-phase circumscribed transformer	11	Undervoltage delayed release	15	Closing release
4	Power supply module	8	Cable mechanical interlock	12	Auxiliary contact	16	Shunt release

Radio Accessory Guide

If you need more extended function,choose accessory by yourself.(Please see the appendix, order goods on the basis of accessory code.)

Accessory code

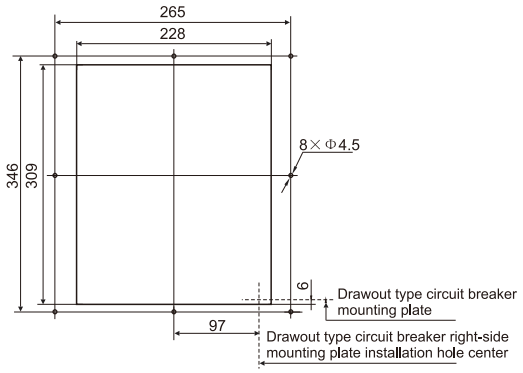
	Code	Accessory name	
• Control module accessory			
	CDW6AP	Power module	input AC230V/DC220V output DC24V 1000-6300AF
	CDW6DCP	DC power module	input DC220V output DC24V 1000-6300AF
	CDW6R	Relay module	Capacity AC230V/DC24V input DC24V 1000-6300AF
• The accessory is for protection and m easure			
N-phase circumscribed transformer	CDW6N1002	N-phase circumscribed transformer	(200A 1000AF)
	CDW6N1008	N-phase circumscribed transformer	(400A-800A 1000AF)
	CDW6N1010	N-phase circumscribed transformer	(1000A 1000AF)
	CDW6N2008	N-phase circumscribed transformer	(630A-800A 2000AF)
	CDW6N2020	N-phase circumscribed transformer	(1000-2000A 2000AF)
	CDW6N3232	N-phase circumscribed transformer	(2000A-3200A 3200AF)
	CDW6N6363	N-phase circumscribed transformer	(4000A-6300A 6300AF)
• For lock function			
Button lock	CDW6L3	Three locks and two keys	(2000-6300AF)
	CDW6L2	Two locks and one key	(2000-6300AF)
	CDW6L1	One lock and one key	(2000-6300AF)
• For power supply changeover			
Cable mechanical interlock	CDW6FL2	Fixed cable mechanical interlock(two)	
	CDW6FL3	Fixed Cable mechanical interlock(three)	
	CDW6DL2	Drawout Cable mechanical interlock(two)	
	CDW6DL3	Drawout Cable mechanical interlock(three)	
Connecting-rod type mechanical interlock	CDW6FG2	Fixed connecting-rod type mechanical interlock(two)	
	CDW6FG3	Drawout connecting-rod type mechanical interlock(two)	
	CDW6DG2	Fixed connecting-rod type mechanical interlock(three)	
	CDW6DG3	Drawout connecting-rod type mechanical interlock(three)	

CDW6 Air Circuit Breaker

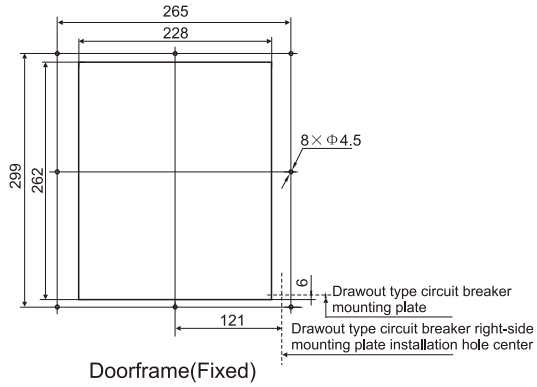
Standard: IEC 60947-2

Overall Dimensions

CDW6-1000



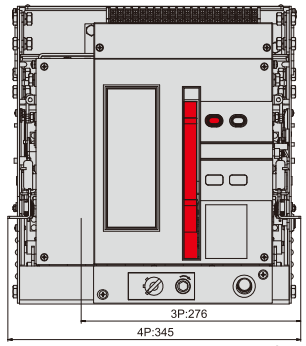
Doorframe(Drawout)

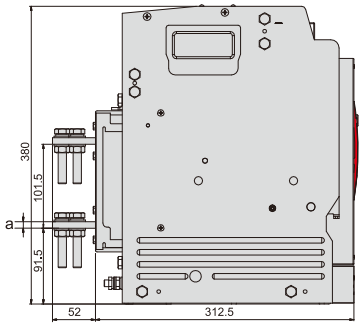


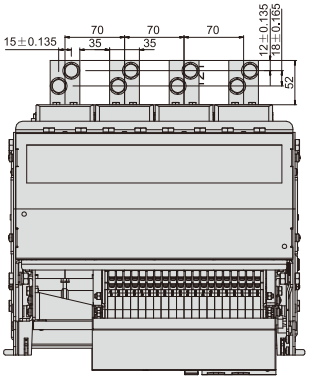
Doorframe(Fixed)

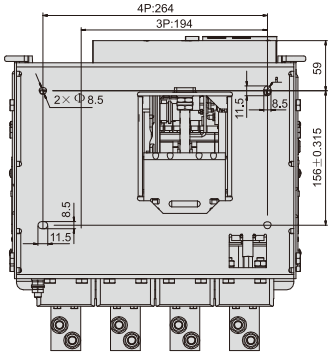
Volume

○ Drawout

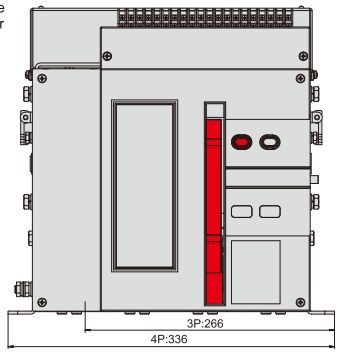


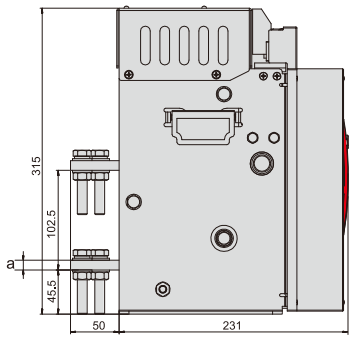


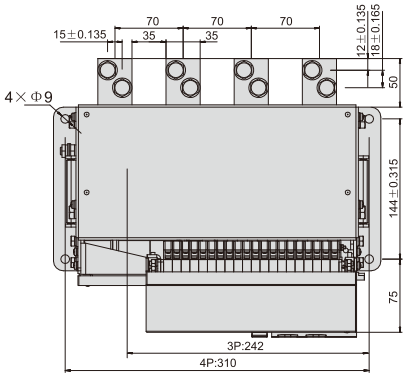




○ Fixed



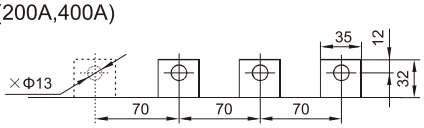




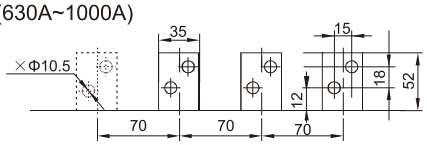
Busbar Dimension

○ Drawer-Out

(200A,400A)

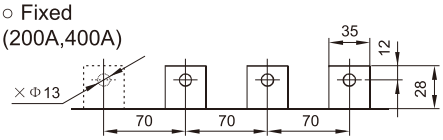


(630A~1000A)

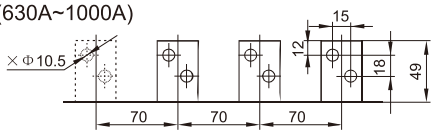


○ Fixed

(200A,400A)



(630A~1000A)



CDW6 Air Circuit Breaker

Standard: IEC 60947-2

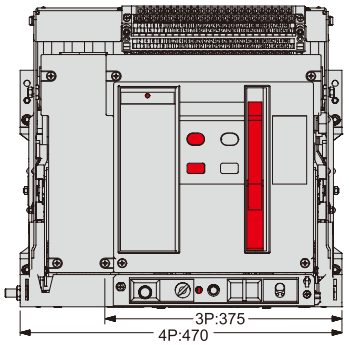
Overall Dimensions

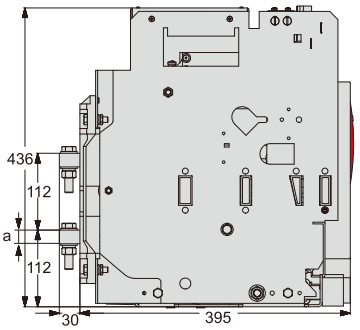
CDW6-2000

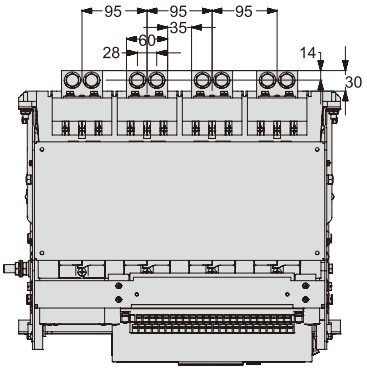


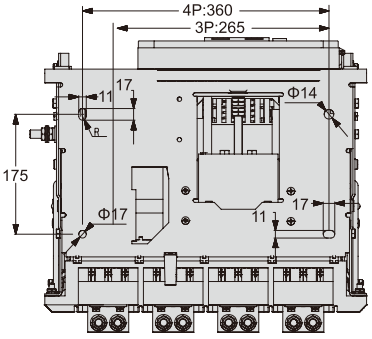
Volume

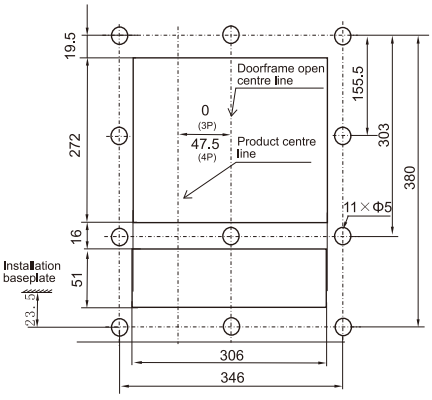
○ Drawout



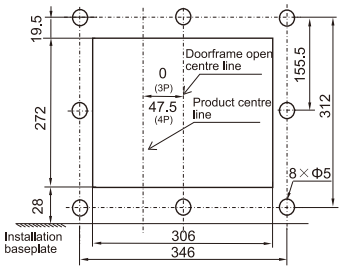






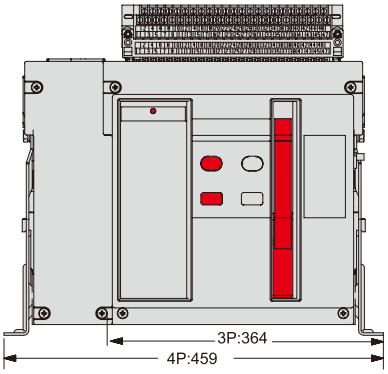


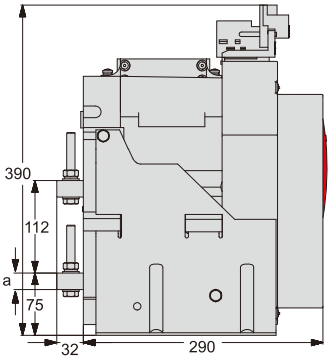
Doorframe(Drawout)

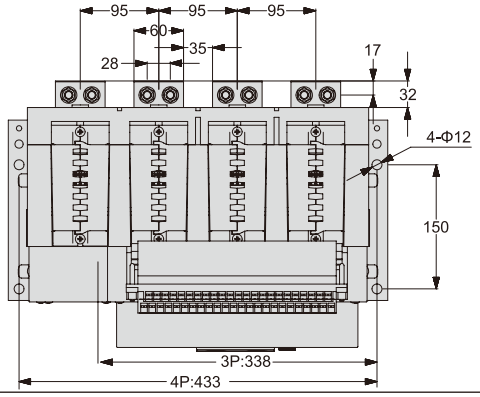


Doorframe(Fixed)

○ Fixed







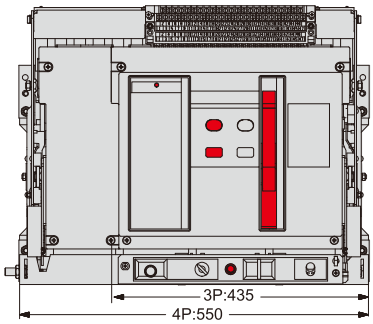
Overall Dimensions

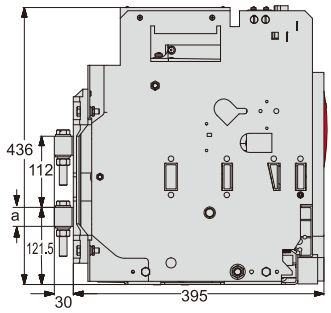
CDW6-3200

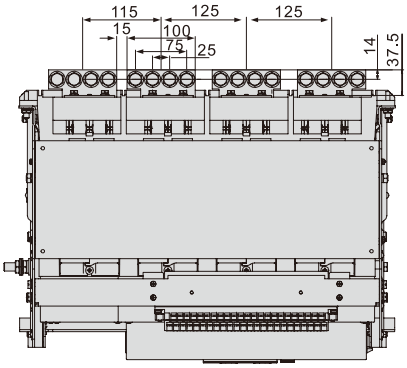


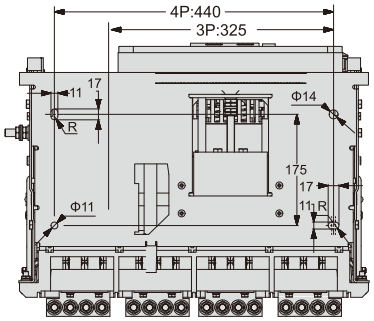
Volume

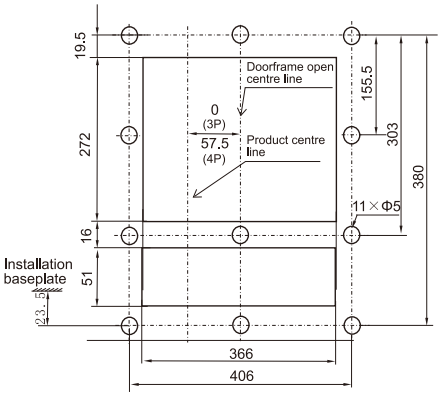
○ Drawout





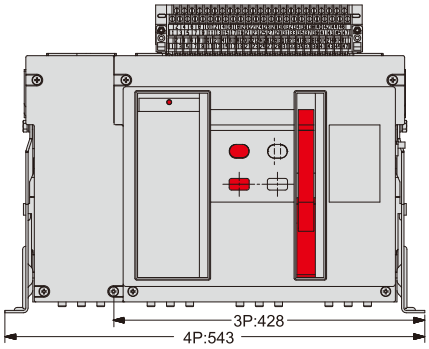


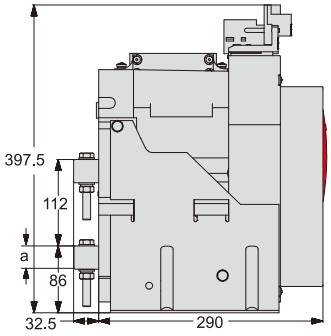


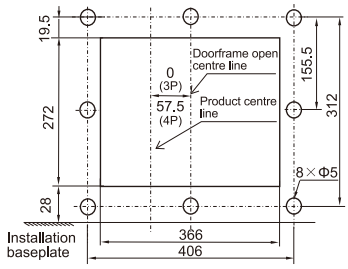


Doorframe(Drawout)

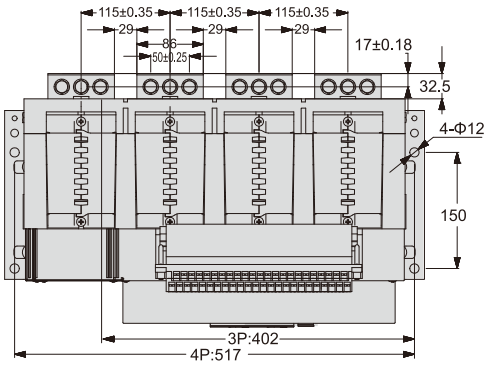
○ Fixed







Doorframe(Fixed)



CDW6 Air Circuit Breaker

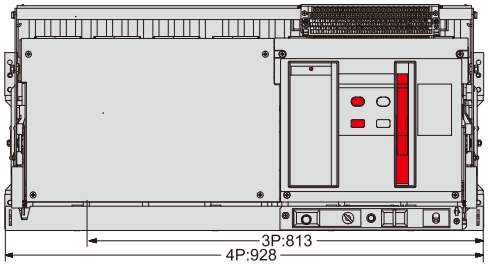
Standard: IEC 60947-2

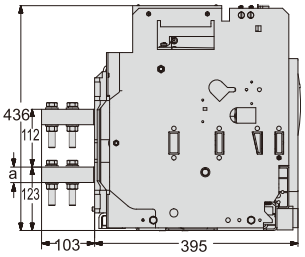
Overall Dimensions

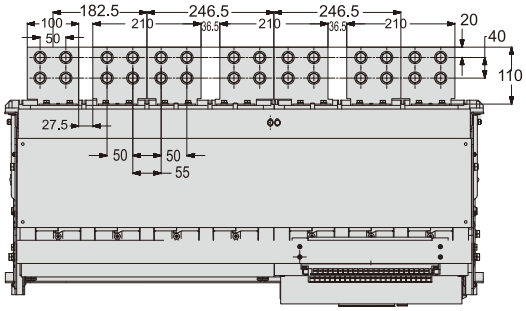
CDW6-6300

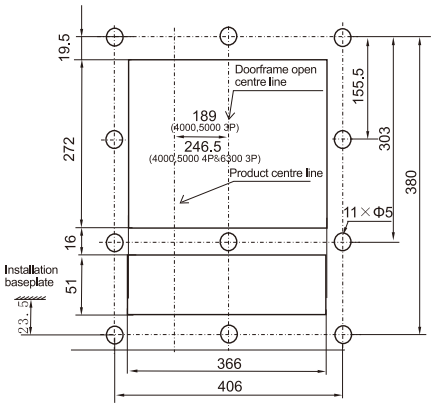
Volume



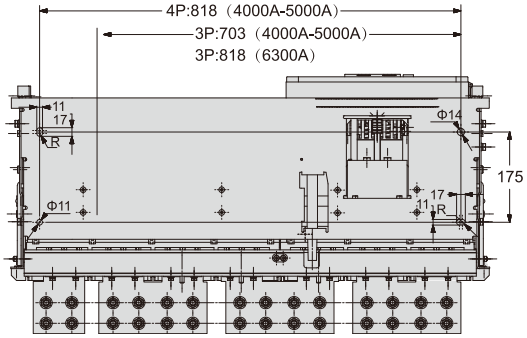


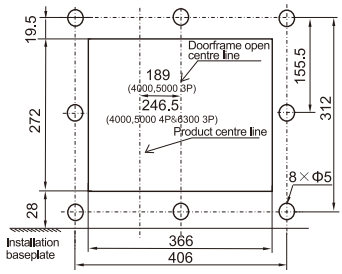






Doorframe(Drawout)





Doorframe(Fixed)

CDW6 Air Circuit Breaker

Standard: IEC 60947-2

Technical Parameter

Common characteristics		
Number of poles		3P、4P
Rated insulation voltage Ui	V	800
Rated impulse withstand voltage Uimp	kV	8
Rated operational voltage Ue	V	400

Rated current				
In(A) \ In Frame(A)	1000	2000	3200	6300
200	•			
400	•			
630	•	•		
800	•	•		
1000	•	•		
1250		•		
1600		•		
2000		•	•	
2500			•	
3200			•	
4000				•
5000				•
6300				•

Breaking capacity				
Rated ultimate short circuit breaking capacity Icu (kA)	42	80	80	120
Rated service short circuit breaking capacity Ics (kA)	30	50	80	100
Rated Short-Time Withstand Current Icw (0.5s)	30			
Rated short circuit withstand current Icw (kA/1s)		50	65	85

Service life				
Mechanical Life with Maintenance	10000	10000	8000	5000
Mechanical Life without Maintenance	2500	2500	2500	2500
Electric Life with Maintenance	1000	1000	1000	800
Electric Life without Maintenance	500	500	500	500

CDW6 Air Circuit Breaker

Standard: IEC 60947-2



Intelligent Controller

ECW-L

Function information		
Protection		Use
Long time delay	L	Protect cable,prevent ageing
Short time delay	S	Protect equipment,prevent impedance short circuit
Instantaneous	I	Protect equipment,prevent metallicity short circuit
Earthing	G	Prevent fire

ECW-L protection characteristics	Setting range	
Protection Characteristics for Overload Delay		
Action current I_R	0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0In+OFF	
Delay time t_L	30s, 60s, 120s, 240s	
Protection Characteristics for Short-Delay Short Circuit		
Action current Isd	3, 4, 5, 6, 7, 8, 10In+OFF	
Action time t_S	0.2s, 0.4s	
Protection Characteristics for Instantaneous Short Circuit		
Action current Ii	Setting range	Remark
	(10、11、12、14、16、18、20) In+OFF	1000AF 2000AF
	(7、8、9、10、11、12、14) In+OFF	3200AF 6300AF
Earthing protection		
Action current Ig	0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8In+OFF	
Actuation time t_G	0.2s, 0.4s, 0.6s, 0.8s	

CDW6 Air Circuit Breaker

Standard: IEC 60947-2



Intelligent Controller

ECW-M

Function information		
Protection		**Use**
Long time delay	L	Protect cable,prevent ageing
Short time delay	S	Protect equipment,prevent impedance short circuit
Instantaneous	I	Protect equipment,prevent metallicity short circuit
Earthing	G	Prevent fire
Measure		
Current measurement		
Voltage measurement		
Miscellaneous function		
Pre-alarm		
Self-diagnosis function		
Fault log		
Test function		

ECW-M protection characteristics	Setting range						
Protection Characteristics for Overload Delay							
Action current I_R	0.4~1.0In+OFF (>>100A)						
Delay time t_L	Fault current	Delay time					
	t_R	15	30	60	120	240	480
	$1.5xI_R$	15	30	60	120	240	480
	$2xI_R$	8.4	16.9	33.8	67.5	135	270
	$7.2xI_R$	0.65	1.3	2.6	5.2	10.4	20.8
	$t=(1.5/N)^2xt_R$						
	N=Fault current divided by the setting current I/I_R						
	t=Delay Time of Failure Action						
	t_R=Setting Value of Long-Delay Time						
Protection Characteristics for Short-Delay Short Circuit							
Action current Isd	0.4~15In+OFF Step setting 10kA below : ≤ 2A, 10kA above ≤ 10A						
Action time t_S	Inverse time Limit I^2T						
	Fault current	Delay time					
		ts(s)	0.1	0.2	0.3	0.4	
	I^2T: OFF	Min.delay(ms)	60	160	255	340	
		Max.delay	140	240	345	460	
	I^2T:ON	Min.delay	60	160	255	340	
	$I>8I_R$	Max.delay	140	240	345	460	
	I^2T: ON	Inverse time limit delay	$t=(8I_R)^2/I^2\times ts$				
	$I\leq 8I_R$						

Protection Characteristics for Instantaneous Short Circuit				
	CDW6-1000	CDW6-2000	CDW6-3200	CDW6-6300
Action current Ii	2.0In~20kA+OFF	2.0In~50kA+OFF	2.0In~75kA+OFF	2.0In~100kA+OFF

Earthing protection	
Action current I_g	0.2~1.0In+OFF
Actuation time t_G	0.1s, 0.2s, 0.3s, 0.4s, OFF

CDW6 Air Circuit Breaker

Standard: IEC 60947-2



Intelligent Controller

ECW-H

Function information					
Protection		Use			
Long time delay	L	Protect cable,prevent ageing			
Short time delay	S	Protect equipment,prevent impedance short circuit			
Instantaneous	I	Protect equipment,prevent metallicity short circuit			
Earthing	G	Prevent fire			
Measure					
Current measurement					
Voltage measurement					
Power measurement					
Harmonic wave measurement					
Miscellaneous function					
Pre-alarm					
Self-diagnosis function					
Fault log					
Test function					
Communication function					
ECW-H protection characteristics					
Parameter name		Setting range			
Overload long time delay					
Action current I_R		OFF+0.4~1.0In			
Protection curve Type selection		SI: Standard inverse time limit VI: Rapid inverse time limit EI(G): Express inverse time limit(distribution) EI(M): Express inverse time limit(electromotor) HV: High-Pressure Welding Fuse Compatibility I2t: Universal inverse time limit protection			
Setting delay time		C01~C16			
Protection Characteristics for Short Delay					
Action Current of Inverse Time Limit Is		OFF+(0.4~15)In			
Action Current of Fixed Time Limit Isd		OFF+(0.4~15)In			
Delay Time of Fixed Time Limit tsd		0.1~0.4s			
Instantaneous protection Characteristics					
Action current Ii	CDW6-1000	CDW6-2000	CDW6-3200	CDW6-6300	
	2.0In~20kA+OFF	2.0In~50kA+OFF	2.0In~75kA+OFF	2.0In~100kA+OFF	
Earthing protction Characteristics					
Action current Ig		OFF+0,2~1.0xIn			
Inverse time limit shearing coefficient Cr		1.5~6, +OFF			
Delay time tg		(0.1~0.4)s			

CDW6 Air Circuit Breaker

Standard: IEC 60947-2

Accessories

Long-distance operation



Shunt release

- Function introduce
- When the breaker is stored,under prescriptive voltage,through long-distance remote control operation,let the breaker break

Accessory parameter	
Rated operational voltage V	AC230V AC400V DC220
Operation voltage	(0.7-1.1)Us
Consumption	40VA(AC) 40W(DC)
Breaking time	<30ms



Undervoltage release and undervoltage delay release

- Function introduce
- The undervoltage release automatically opens a circuit breaker when voltage drops to a value ranging between 35% to 70% of the line voltage. after tripping,the circuit breaker cannot be re-closed again when the voltage lowers than 35% or until returns to 85% of line voltage. Undervoltage relay release lets the breaker break in 1s-5s(adjustable)



Accessory parameter	
Rated operational voltage V	AC400V AC230V
Operational voltage	(0.35-0.7)Ue
Dependable closing voltage	(0.85-1.1)Ue
Unable closing voltage	≤0.35Ue
Consumption	12VA
Delay time	1s-5s



Closing release

- Function introduce
- When the breaker is stored,under prescriptive voltage,through long-distance remote control operation,let the breaker close

Accessory parameter	
Rated operational voltage V	AC230V AC400V DC220
Operational voltage	(0.85-1.1)Us
Consumption	40VA(AC) 40W(DC)
Breaking time	<70ms

CDW6 Air Circuit Breaker

Standard: IEC 60947-2

Accessories

Motor mechanism



- Function introduce
- When the breaker is under breaking and power supply,motor mechanismis is automatic stored. So under shunt release,undervoltage and closing release, let the breaker break and close

Accessory parameter	
Rated control power voltage V	AC230V AC400V DC220
Action voltage	(0.85-1.1)Us
Consumption	192VA(AC) 192W(DC)
Energy storage time	<5s

Auxiliary contact



- Function introduce
- It is used for keeping watch on the breaker's status,connecting position signal light and breaking indicator light

Accessory parameter				
Utilization category			AC-15	DC13
Auxiliary contact default type			Four normal open four normal close	
Conventional thermal current Ith			6A	
Auxiliary contact's energized operational performance			Equal to circuit breaker operation performance	
Making& breaking capacity	Under normal conditions	I/Ie making	10	1
		I/Ie breaking	1	1
		U/Ue	1	1
		COSφor T0.95	0.3	6Pe*
	Under abnormal conditions	U/Ue	10	1.1
		I/Ie	1.1	1.1
		COSφor T0.95	0.3	6Pe*
		Operation cycles	10	10

Accessories



Transformer

N-phase Circumscribed Transformer

- Function introduce

○ In the 3P+N earth connection,it is used for measure the current of the neutral phase

Note: 1. Only for 3P Breaker, and the Intelligent Controller should be 4P;
2. Max connect distance is 2M;
3. Customize according to the Intelligent Controller.



Lock

Divide Release Lock

- Function introduce

○ When the breaker is breaking,it could be lock in.

○ It is divided into three types: one lock and one key
two locks and one key
three locks and two keys

Accessories

Connection



Cable Mechanical Interlock

- Function introduce
- It could connect two or three breakers to be linkage.

Note:The Max Horizonal installation distance is 2M;



Connecting-rod Type Mechanical Interlock

- Function introduce
- It could connect two breakers to be linkage,one of the breakers is closing, the other is breaking

Note: Only for Vertical intallation, and the Max installation distance is 0.9M;



Phase Barrier

- Function introduce
- Install in the middle of the breaker busbar,increase creepage distance, prevent to engender electric arc



Intelligent controller accessory

DC Power Module

- Function introduce
- In the alternating current,supply auxiliary power supply for intelligent controllor
- It is used for ST201 relay module or DC controllor power supply

CDW6 Air Circuit Breaker

Standard: IEC 60947-2

Accessories



Power Module

- Function introduce
  - In the direct current,supply auxiliary power supply for intelligent controller



Relay Module

- Function introduce
  - Exporting signal element is used for failure warning or indication

Note:CDW6AP & CDW6R only for H Intelligent Controller, and they use together as a set.



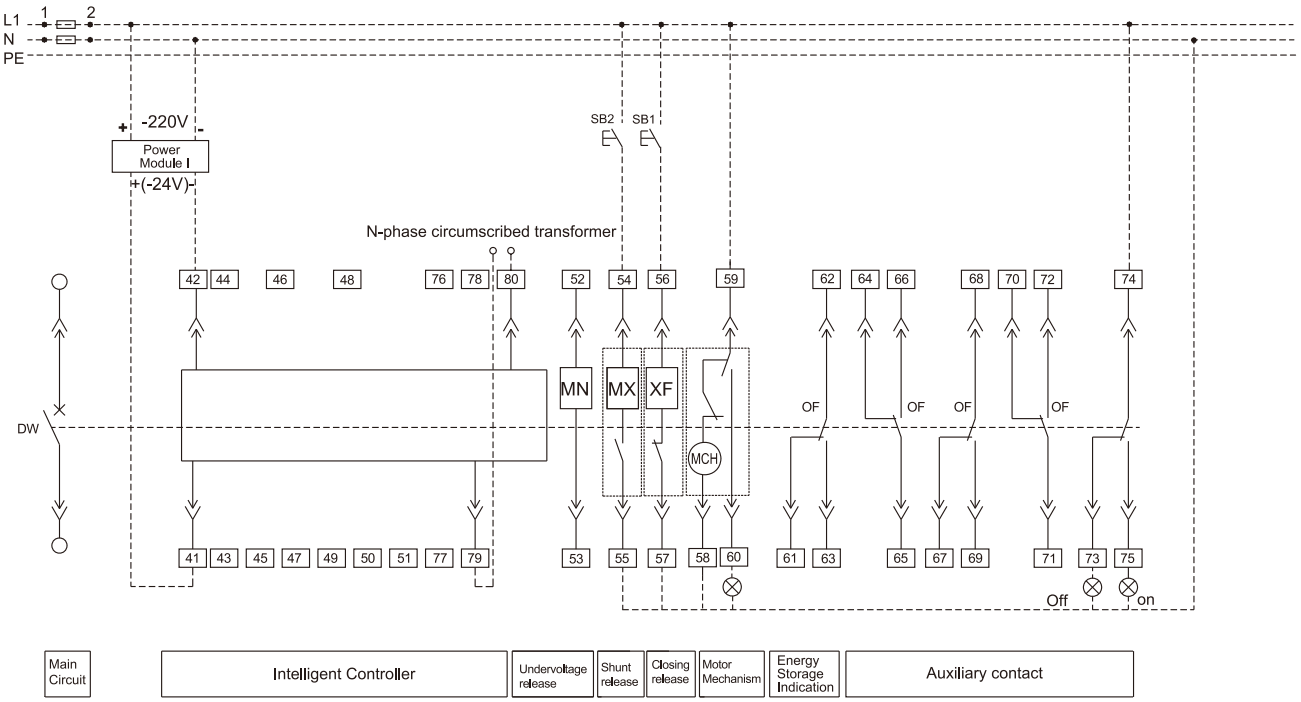
Other accessories

Doorframe

- Function introduce
  - Install on the power distribution cabinet door,increase IP protection grade to IP 4.0

Auxiliary connection diagramn

- L –Type and M –Type Intelligent Controller (1000AF)



Pin Function:
41# and 42#: auxiliary supply input terminal,
79#,80#: Input terminal of circumscribed transformer

Remarks 1: terminal 52# ~ 53# of MN undervoltage release connect to main circuit

Remarks 2:MN, MX, XF and MCH shall be connected with different power because of different control supply. When auxilary contact OF is 4a4b, MX Shunt-trip Release and MN Closing Release shall be tandem connected with NO and NO auxiliary contacts in the factory.

Remarks 3: Power Module1 is DC Power Module, and there is no such module when the power is AC power supply.The input & output terminals cannot be connected reversely (the drawer-out type output terminal has been connected in the factory)

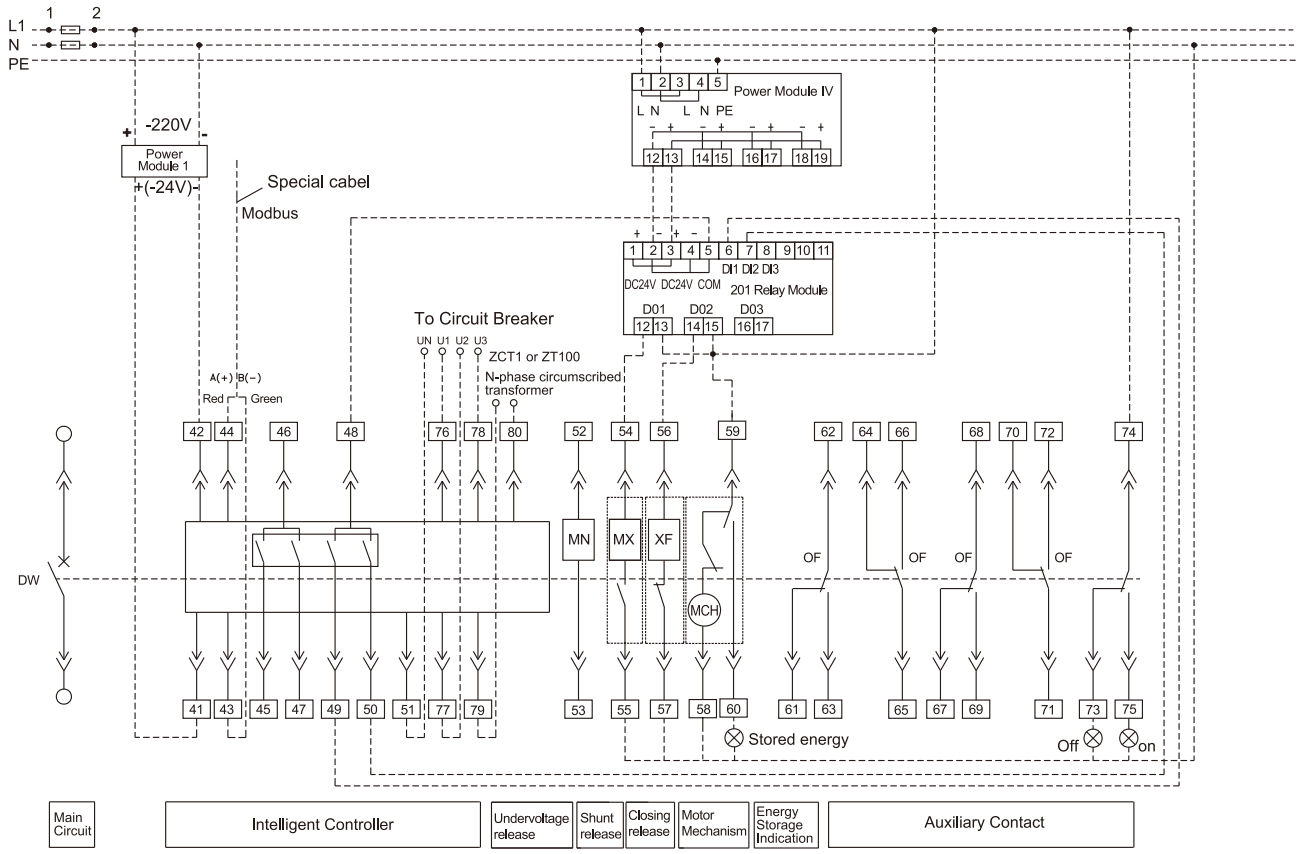
Remarks 4: the auxiliary contact is four-open and four-close; 79# and 80# are input terminal for circumscribed transformer, applied for (3P+N) T type earthing failure protection.

Components:

MN— Undervoltage Release
MX— Shunt Release
XF— Closing Release
OF— Auxiliary Contact
MCH— Motor Mechanism
SB1— Make Button
SB2— Shunt Button

Auxiliary connection diagramn

- H –Type Intelligent Controller (1000AF)



Pin Function:
41# and 42#: auxiliary supply input terminal,
43# and 44#: respective output communication wire of RS485B and RS485A
45#: alarm signal output
46#: signal contact output shared terminal 1
47#: error tripping output
48#: signal contact output shared terminal 1
49#: communication remote control shunt trip release output
50#: communication remote control make output
51#: Neuter line voltage signal (N phase)
76#: voltage signal A phase
77#: voltage signal B phase
78#: voltage signal C phase
79#,80#: input of circumscribed transformer

Components:

MN— Undervoltage Release
MX— Shunt Release
XF— Closing release
OF— Auxiliary Contact
MCH — Motor Mechanism
Z0T1 — Leakage transformer
ZT100 — Earthing transformer

Remarks 1: terminal 52# ~ 53# of MN undervoltage release connect to main circuit

Remarks 2: Remarks 2: MN, MX, XF and MCH shall be connected with different power because of different control supply. When auxilary contact OF is 4a4b, MX Shunt-trip Release and XF Closing Release shall be tandem connected with NO and NO auxiliary contacts in the factory.

Remarks 3: Power Module 1 is DC Power Module , and there is no such Module when the power is AC power supply.The input & output terminals cannot be connected reversely (the drawer-out type output terminal has been connected in the factory)

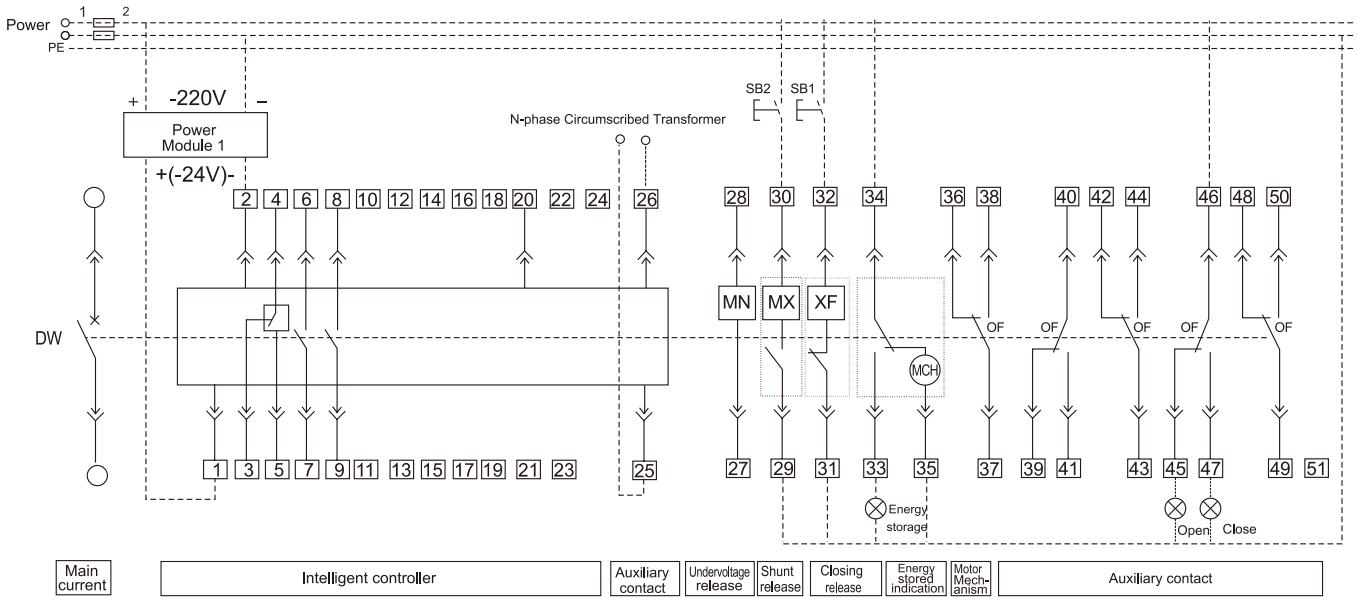
Remarks 4: the auxiliary contact is four-open and four-close; 79# and 80# are input terminal for circumscribed transformer, applied for (3P+N) T type earthing failure protection.or connect ZCT1 or ZT100(should order extra)

Remarks 5: long-range control should add 201 relay module and power module IV the capacity of relay module is: AC230V,10A; DC24V,10A

Remarks 6: communication agreement is Modbus. If use Profibus or other agreement, it needs extra order.
Power module IV and 201 relay module needs extra order.

Auxiliary connection diagramn

- L –Type and M –Type Intelligent Controller (2000-6300AF)



Pin Function:
1# and 2#: auxiliary supply input terminal,
1# for positive terminal when being DC
3#, 4# and 5#: contact output of tripping fault (4# refers to shared terminal);
contact capacity: AC 380V, 16A
6#, 7#, 8# and 9#: two groups of auxiliary terminals with circuit breaker status;
contact capacity: AC 380V, 16A

20#: PE wire, protection earthing wire
25# ~26#: output for circumscribed transformer

Components:

MN— Undervoltage Release
MX— Shunt Release
XF— Closing Release
OF— Auxiliary Contact
MCH— Motor Mechanism
SB1— Make Button
SB2— Shunt Button

Remarks 1: terminal 27# ~ 28# of MN undervoltage release connect to main circuit.

Remarks 2: MN, MX, XF and MCH shall be connected with different powers beacuse of control supply voltage. Auxilary contact OF is 5a5b, MX Shunt-trip Release and XF Closing release have been tandem connected with normal open and normal close auxiliary contacts in the factory.

Remarks 3: Terminal 35# can not only be connected to the power supply directly (automatic pre-storing energy), but also to the power supply after adopting tandem connection with normal open button (manual pre-storing energy)

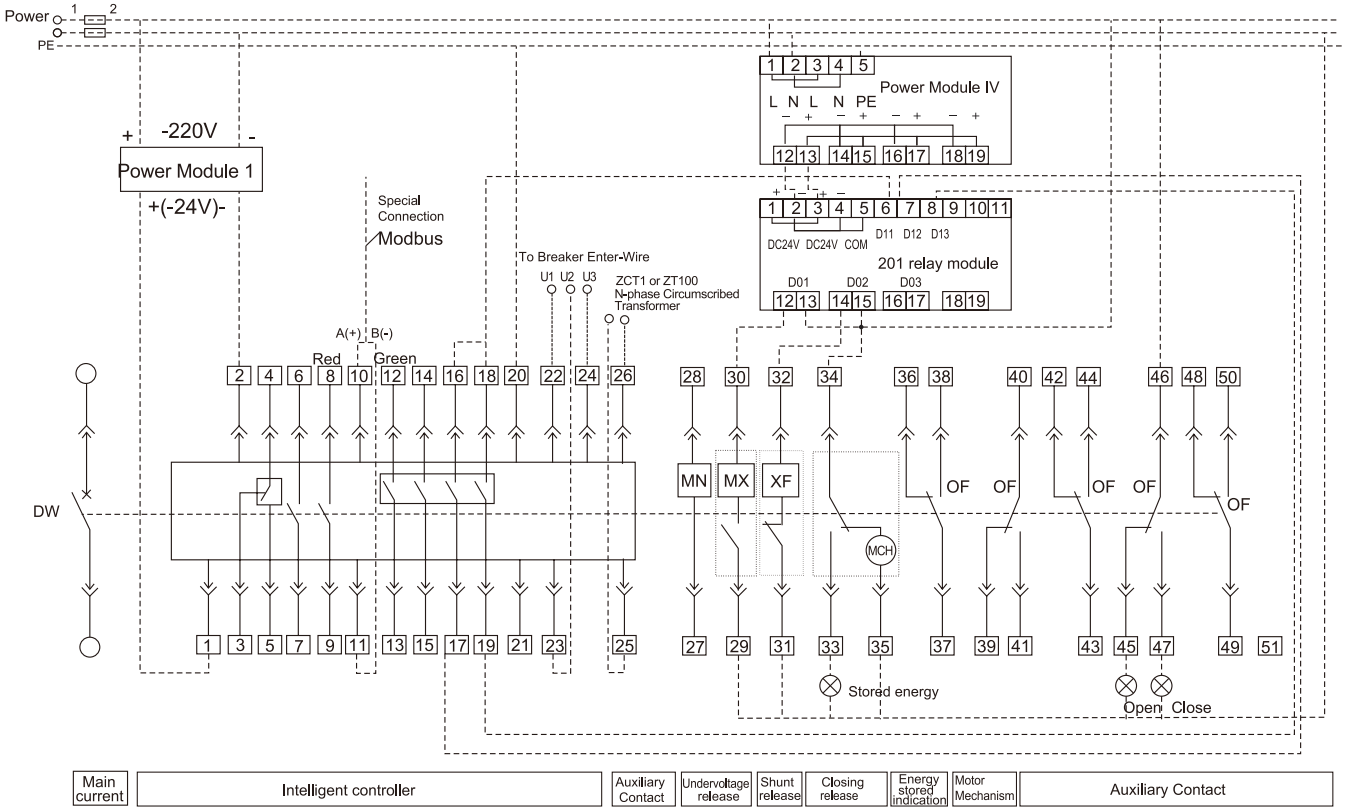
Remarks 4: Terminal 6# ~ 7# can output normal close contacts,if the users put forward.

Remarks 5: Power Module 1 is DC Power Module , and there is no such Module when the power is AC power supply.The input & output terminals cannot be connected reversely (the drawer-out type output terminal has been connected in the factory)

Remarks 6: The auxiliary contact is five-open and five-close, 25# and 26# are circumscribed transformer, applied for (3P+N) T type earthing failure protection.

Auxiliary connection diagramn

- H –Type Intelligent Controller (2000-6300AF)



Pin Function:
1# and 2#: auxiliary supply input terminal,
1# for positive terminal when being DC
3#, 4# and 5#: contact output of tripping fault (4# refers to shared terminal);
contact capacity: AC 380V, 16A
6#, 7#, 8# and 9#: two groups of auxiliary terminals with circuit breaker status;
contact capacity: AC 380V, 16A
10# and 11#: respective output wire of RS485A and RS485B communication
12#,13#: alarm signal output
14#,15#: error tripping signal output
16#,17#: communication remote control shunt release output
18#,19#: communication remote control make output
20#: PE Line, shielding earthing line.
21#: Neuter line voltage signal (N phase)
22#: voltage signal A phase
23#: voltage signal B phase
24#: voltage signal C phase
25#,26#: input of circumscribed transformer

Components:
MN — Undervoltage Release
MX — Shunt Release
XF — Closing Release
OF— Auxiliary Contact
MCH — Motor Mechanism
Z0T1 — Leakage Transformer
ZT100 — Earthing Transformer

Remarks 1: terminal 27# ~ 28# of MN undervoltage release connect to main circuit

Remarks 2: MN, MX, XF and MCH shall be connected with different powers beacuse of control supply voltage. Auxilary contact OF is 5a5b, MX Shunt-trip Release and XF Closing release have been tandem connected with normal open and normal close auxiliary contacts in the factory.

Remarks 3: Terminal 35# can not only be connected to the power supply directly (automatic pre-storing energy), but also to the power supply after adopting tandem connection with normal open button (manual pre-storing energy)

Remarks 4: Terminal 6# ~ 7# can output normal close contacts,if the users put forward.

Remarks 5: Power Module 1 is DC Power Module, and there is no such Module when the power is AC power supply.The input & output terminals cannot be connected reversely (the drawer-out type output terminal has been connected in the factory)

Remarks 6:The auxiliary contact is five-open and five-close, 25# and 26# are circumscribed transformer, applied for (3P+N) T type earthing failure protection, or connect Z CT1 or ZT100(should order extra)

Remarks 7: long-range control should add 201 relay module and power module IV the capacity of relay module is: AC230V,10A; DC24V,10A

Remarks 8: communication agreement is Modbus. If use Profibus or other agreement, it needs extra order. Power module IV and 201 relay module needs extra order.

Motor Control and Protection Product Overview

Contactor



CDC6 123
Current:9-95A
Pole:3P
Coil Voltage:AC24-440V



CDC17-K 146
Current:6-12A
Pole:3P,4P
Coil Voltage:AC24-400V



CDC6 125
Current:115-630A
Pole:3P
Coil Voltage:AC110-440V



CJX2 154
Current:9-95A
Pole:3P
Coil Voltage:AC36-400V

Thermal Overload Relay



CDR6 139
Setting Current:0.1-95A
Trip class:10A ,10



CDR17-18 149
Setting Current:0.1-18A
Trip class:10A



JRS2 165
Setting Current:55-630A
Trip class:10A,10



JRS1D 160
Setting Current:0.1-93A
Trip class:10A,10

Motor Control and Protection Product Overview

Definite Purpose Contactor



CDC9 173

Current: 25-65A
Poles: 3P

Application: Power factor correction



CDCK8 176

Current: 25-45A
Poles: 1P,2P

Application: Air Conditioner

Control Relay



CDZ6 180

Contact:
41,32

Coil Voltage:
AC24-440V



CDZ8 183

Contact:
2Z,3Z,4Z

Coil Voltage:
AC6-220V
DC6-220V

Motor Protector



CDP17z 192

Frame Current: 32, 80A
Setting Current: 0.1-80A

Magnetic Starter



CDS2 199

Frame Current: 13, 25, 95A
Setting Current: 1-93A

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1



Order Information

Product Name	Rated Current	Auxiliary Contact	Coil Voltage	Coil Frequency
CDC6	09	11	M	
	09:9A … 630:630A	11:1NO+1NC 00:0NO+0NC	B:24V … X:440V	Default:50HZ 7:50/60HZ

AC-3,380/400V		Instant Auxiliary Contact		Reference
Rated Current (A)	Rated Power (KW)			
9	4	1	1	CDC6 09 11 □□
12	5.5	1	1	CDC6 12 11 □□
18	7.5	1	1	CDC6 18 11 □□
25	11	1	1	CDC6 25 11 □□
32	15	1	1	CDC6 32 11 □□
40	18.5	1	1	CDC6 40 11 □□
50	22	1	1	CDC6 50 11 □□
65	30	1	1	CDC6 65 11 □□
80	37	1	1	CDC6 80 11 □□
95	45	1	1	CDC6 95 11 □□
115	55	-	-	CDC6 115 00 □□
150	75	-	-	CDC6 150 00 □□
185	90	-	-	CDC6 185 00 □□
225	110	-	-	CDC6 225 00 □□
265	132	-	-	CDC6 265 00 □□
330	160	-	-	CDC6 330 00 □□
400	200	-	-	CDC6 400 00 □□
500	250	-	-	CDC6 500 00 □□
630	335	-	-	CDC6 630 00 □□

Note: "□□" means coil voltage code.

Code Table of Coil Voltage

Coil Voltage (V)	24	36	48	110	127	220	230	240	380	400	415	440
50HZ	B	C	E	F	S	M	N	U	Q	V	L	X
50/60HZ	B7	-	E7	F7	-	M7	N7	U7	Q7	V7	-	-

Note: 115-630AF refer to the actual situation.

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1



Order Information

Product Name	Rated Current	Directional Conatctor	Coil Voltage	Coil Frequency
CDC6	09	N	M	
	09:9A … 630:630A	N	B:24V … X:440V	Default: 50HZ 7:50/60HZ

AC-3,380/400V		Instant Auxiliary Contact		Reference
Rated Current (A)	Rated Power (KW)			
9	4	1	1	CDC6 09N □□
12	5.5	1	1	CDC6 12N □□
18	7.5	1	1	CDC6 18N □□
25	11	1	1	CDC6 25N □□
32	15	1	1	CDC6 32N □□
40	18.5	1	1	CDC6 40N □□
50	22	1	1	CDC6 50N □□
65	30	1	1	CDC6 65N □□
80	37	1	1	CDC6 80N □□
95	45	1	1	CDC6 95N □□
115	55	-	-	CDC6 115N □□
150	75	-	-	CDC6 150N □□
185	90	-	-	CDC6 185N □□
225	110	-	-	CDC6 225N □□
265	132	-	-	CDC6 265N □□
330	160	-	-	CDC6 330N □□
400	200	-	-	CDC6 400N □□
500	250	-	-	CDC6 500N □□
630	335	-	-	CDC6 630N □□

Note: "□□" means coil voltage code.

Code Table of Coil Voltage

Coil Voltage (V)	24	36	48	110	127	220	230	240	380	400	415	440
50HZ	B	C	E	F	S	M	N	U	Q	V	L	X
50/60HZ	B7	-	E7	F7	-	M7	N7	U7	Q7	V7	-	-

Note: 115-630AF refer to the actual situation.

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

Main Technical Parameter






Model		CDC6-09	CDC6-12	CDC6-18	CDC6-25	CDC6-32	CDC6-40	CDC6-50	CDC6-65	CDC6-80	CDC6-95
Main circuit Characteristics											
Rated Operational Current	Ie, AC-3	9 A	12 A	18 A	25 A	32 A	40 A	50 A	65 A	80 A	95 A
	Ie, AC-1	20 A	20 A	32 A	40 A	50 A	60 A	80 A	80 A	125 A	125 A
Rated Isolation Voltage (Ui)		690V									
Rated Operational Voltage (Ue)		690V									
Number of Pole		3									
Rated Operational Power ClassAC-3	220/240V	2.2kW	3 kW	4 kW	5.5kW	7.5kW	11 kW	15 kW	18.5kW	22 kW	25 kW
	380/400V	4 kW	5.5kW	7.5kW	11 kW	15 kW	18.5kW	22 kW	30 kW	37 kW	45 kW
	415/440V	4 kW	5.5kW	9 kW	11 kW	15 kW	22 kW	25 kW	37 kW	45 kW	45 kW
	660/690V	5.5kW	7.5kW	10 kW	15 kW	18.5kW	30 kW	33 kW	37 kW	45 kW	45 kW
AC-3	Electric durabilities (10 thousand times)	100	100	100	100	80	80	80	80	60	60
	Operating Rate (time/h)	1200	1200	1200	1200	600	600	600	600	600	600
Mechanical Durabilities	(10 thousand times)	1000	1000	1000	1000	800	800	800	800	800	800
Coil											
Rated Control Circuit Voltage (Us)	50Hz	24V,36V,48V,110V,127V,220V,380V,400V,415V,440V									
	50/60Hz	24V,36V,48V,110V,220V,230V,240V,380V,400V									
Allowable Control Circuit Voltage (Us)	Operation	85%~110% Us									
	Drop-out	20%~75% Us									
Coil Power	Inrush VA	70			110		200				
	Sealed VA	8			11		20				
	Heat dissipation W	1.8~2.7			3~4		6~10				
Terminal Wiring Ability											
Flexible Wire Without Terminal Block	1 pc (Section of Connecting Conduction mm²)	1~4	1~4	1.5~6	1.5~10	2.5~10	2.5~25	2.5~25	2.5~25	4~50	4~50
	2 pcs (Section of Connecting Conduction mm²)	1~4	1~4	1.5~6	1.5~6	2.5~10	2.5~16	2.5~16	2.5~16	4~25	4~25
Flexible Wire With Terminal Block	1 pc (Section of Connecting Conduction mm²)	1~4	1~4	1~6	1~6	1~10	2.5~25	2.5~25	2.5~25	4~50	4~50
	2 pcs (Section of Connecting Conduction mm²)	1~2.5	1~2.5	1~4	1~4	1.5~6	2.5~10	2.5~10	2.5~10	4~16	4~16
Fixed Wire Without Terminal Block	1 pc (Section of Connecting Conduction mm²)	1~4	1~4	1.5~6	1.5~6	1.5~10	2.5~25	2.5~25	2.5~25	4~50	4~50
	2 pcs (Section of Connecting Conduction mm²)	1~4	1~4	1.5~6	1.5~6	2.5~10	2.5~16	2.5~16	2.5~16	4~25	4~25
Auxiliary Contact											
Rated Thermal Current (Ith)	A	10									
Rated Operational Voltage (Ue)	AC V	400									
	DC V	230									
Rated Control Capacity	AC-15 VA	360									
	DC-13 W	33									

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1






Contactor Type		CDC6-115	CDC6-150	CDC6-185	CDC6-225	CDC6-265	CDC6-330	CDC6-400	CDC6-500	CDC6-630
Main circuit Characteristics										
Rated Operational Current	Ie, AC-3	115 A	150 A	185 A	225 A	265 A	330 A	400 A	500 A	630 A
	Ie, AC-1	200 A	200 A	275 A	275 A	315 A	380 A	450 A	630 A	800 A
Rated Isolation Voltage (Ui)		1000V								
Rated Operational Voltage (Ue)										
Number of Pole										
Rated Operational Power ClassAC-3	220/240V	30 kW	40 kW	55 kW	63 kW	75 kW	100kW	110kW	147kW	200kW
	380/400V	55 kW	75 kW	90kW	110kW	132kW	160kW	200kW	250kW	335kW
	415/440V	59 kW	80 kW	100kW	110kW	140kW	180kW	220kW	280kW	375kW
	660/690V	80 kW	100kW	110kW	129kW	160kW	220kW	280kW	335kW	450kW
AC-3	Electric durabilities (10 thousand times)	120	120	100	100	80	80	80	80	80
	Operating Rate (time/h)	600	600	600	600	600	600	300	300	300
Mechanical Durabilities	(10 thousand times)	1000	1000	600	600	600	600	600	600	600
Coil										
Rated Control Circuit Voltage (Us)	50Hz	110V,127V,220V,230V,240V,380V,400V,440V								
	50/60Hz	110V,220V,380V (115-225AF)								
Allowable Control Circuit Voltage (Us)	Operation	85%~110% Us								
	Drop-out	20%~75% Us								
Coil Power	Inrush VA	550		800		1200		1200	1250	1650
	Sealed VA	45		55		13		20	24	22
	Heat dissipation W	16		24		12		14	18	20
Terminal Wiring Ability										
Fixed Wire Without Terminal Block	1 pc (Section of Connecting Conduction mm^2)	95	120	150	185	240	240	-	-	-
	2 pcs (Section of Connecting Conduction mm^2)	-	-	-	-	-	-	150	240	-
Copper Bar	2 pcs (Size mm^2)	20*3	25*3	25*3	32*4	32*4	30*5	30*5	40*5	60*5
Auxiliary Contact										
Rated Thermal Current (Ith)	A	10								
Rated Operational Voltage (Ue)	AC V	400								
	DC V	230								
Rated Control Capacity	AC-15 VA	360								
	DC-13 W	33								

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

Directional Contactor



Directional Contactor (Horizontal Installation)	Rated Capacity (kW) AC-3		Rated Current (A) AC-3		Rated Thermal Current (A) AC-1
	400V	690V	400V	690V	
CDC6-09N	4	5.5	9	6.6	20
CDC6-12N	5.5	7.5	12	8.9	20
CDC6-18N	7.5	10	18	12	32
CDC6-25N	11	15	25	18	40
CDC6-32N	15	18.5	32	21	50
CDC6-40N	18.5	30	40	34	60
CDC6-50N	22	33	50	39	80
CDC6-65N	30	37	65	42	80
CDC6-80N	37	45	80	49	125
CDC6-95N	45	45	95	55	125
CDC6-115N	55	80	115	86	200
CDC6-150N	75	100	150	108	200
CDC6-185N	90	110	185	118	275
CDC6-225N	110	129	225	137	275
CDC6-265N	132	160	265	170	315
CDC6-330N	160	220	330	235	380
CDC6-400N	200	280	400	303	450
CDC6-500N	250	335	500	353	630
CDC6-630N	335	450	630	462	800

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

Option for Star Delta Starter



Contactor (CDC6-09～95)

Max. Starting Frequency, 30 time/h; Max. Starting Time,30s							
Motor			Contactor	Contactor	Contactor	Thermal Overload Relay	
Class AC-3 50Hz 3-Phase Electromotor Delta Connection			Straight Connection	Delta Connection	Star Connection		
			KM2	KM3	KM1(3)		
P (KW)	In (A)	IrD (A)	Type	Type	Type	Type	Setting Range (A)
1.5	3.5	2	CDC6-09	CDC6-09	CDC6-09	CDR6-18	1.8~2.5
2.2	5	3	CDC6-09	CDC6-09	CDC6-09	CDR6-18	2.5~3.6
3	6.6	4	CDC6-09	CDC6-09	CDC6-09	CDR6-18	3.5~4.8
4	8.5	5	CDC6-09	CDC6-09	CDC6-09	CDR6-18	4.5~6.3
5.5	11.5	6	CDC6-09	CDC6-09	CDC6-09	CDR6-18	5~7
7.5	15.5	9	CDC6-12	CDC6-12	CDC6-09	CDR6-18	9~12
9	18.5	11	CDC6-18	CDC6-18	CDC6-12	CDR6-18	11~15
11	22	13	CDC6-18	CDC6-18	CDC6-12	CDR6-18	11~15
15	30	16	CDC6-25	CDC6-25	CDC6-18	CDR6-32	14~18
18.5	37	22	CDC6-25	CDC6-25	CDC6-18	CDR6-32	18~25
22	44	26	CDC6-32	CDC6-32	CDC6-25	CDR6-32	23~32
30	60	35	CDC6-40	CDC6-40	CDC6-32	CDR6-95	30~40
37	72	40	CDC6-50	CDC6-50	CDC6-40	CDR6-95	37~50
45	85	47	CDC6-65	CDC6-65	CDC6-50	CDR6-95	37~50
55	105	58	CDC6-80	CDC6-80	CDC6-65	CDR6-95	55~70
75	138	78	CDC6-95	CDC6-95	CDC6-80	CDR6-95	63~80

CDC6 AC Contactor

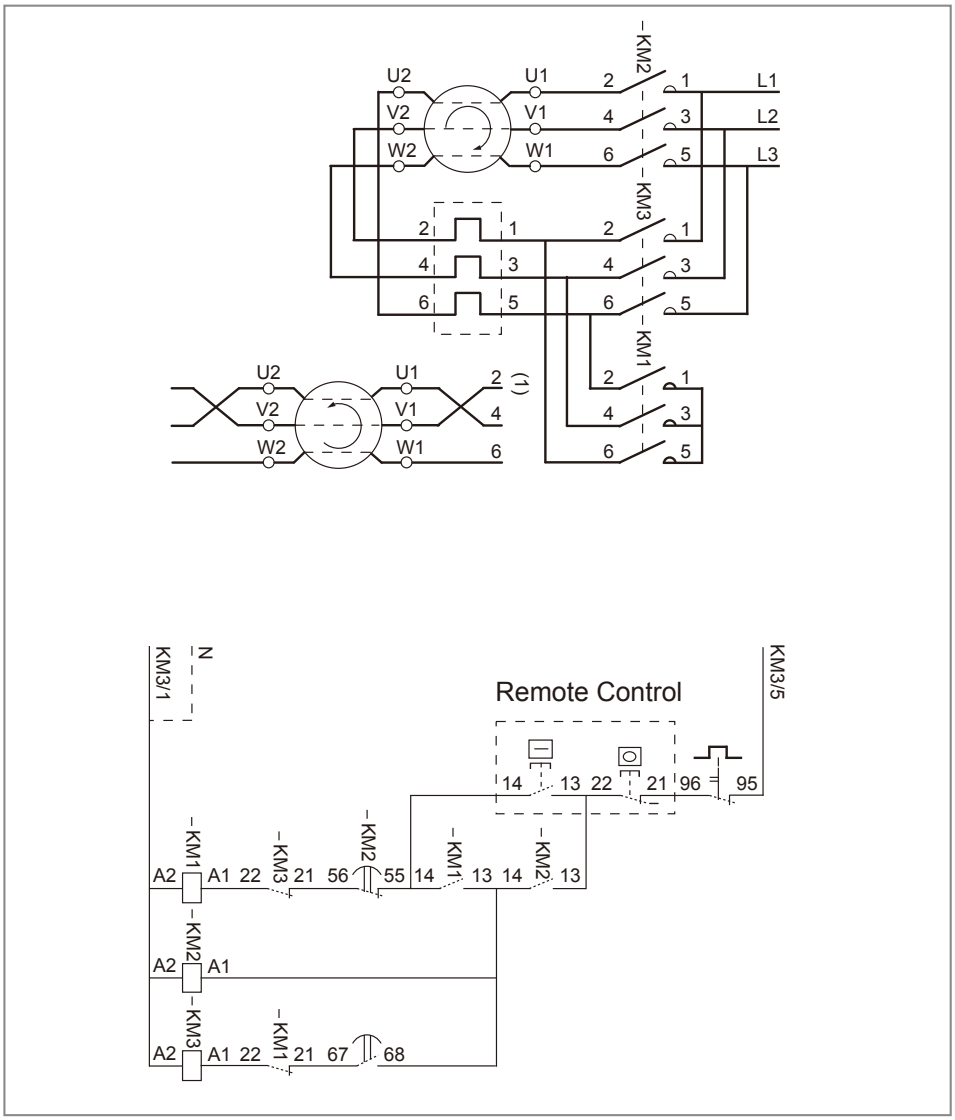
Standard: IEC60947-1,IEC 60947-4-1

Option for Star-Delta Starter

Environmental Requirements

- Ambient Temperature:
  -5°C~+40°C
- Altitude: ≤2000m
- Pollution Level: III
- No obvious shaking and shock
  vibration

Wiring Diagram for Star-Delta Starter

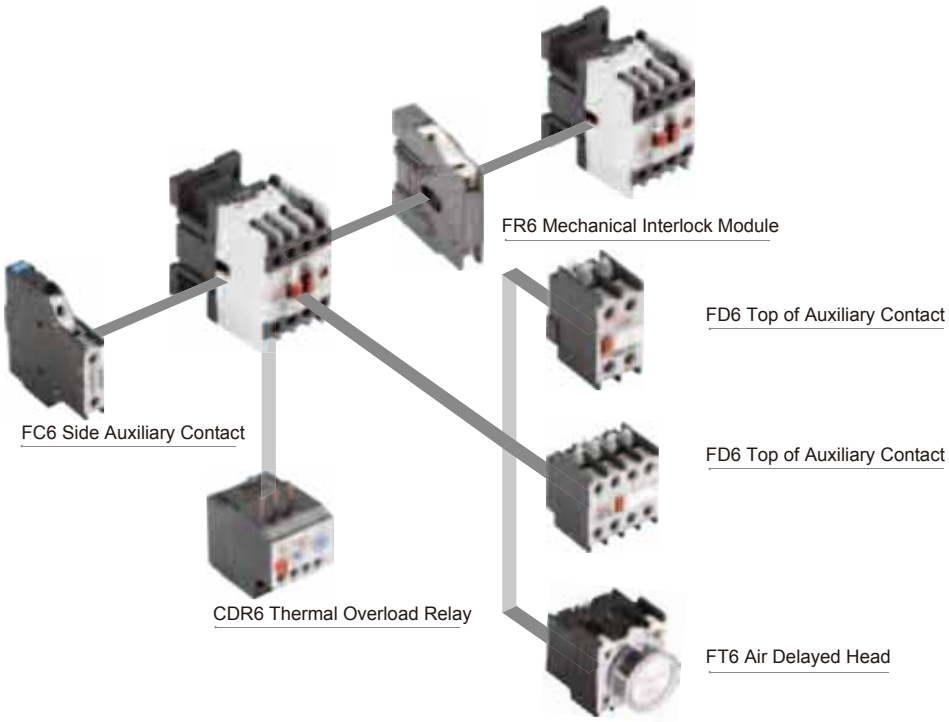


CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

Accessories

CDC6-9～95A Contactor Accessory

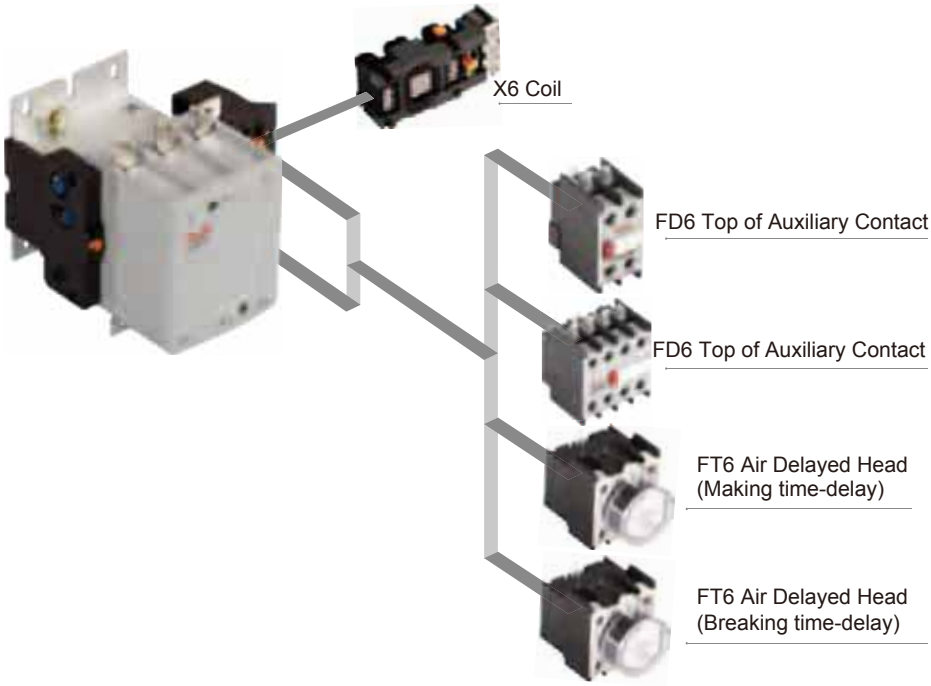


Top of Auxiliary Contact		2 poles: FD6-11, FD6-20, FD6-02 4 poles: FD6-22, FD6-13, FD6-31, FD6-40, FD6-04
Side Auxiliary Contact		2 poles: FC6-11, FC6-20, FC6-02
Air Delayed Head		Making time-delay: FT6-20, FT6-22, FT6-24 Breaking time-delay: FT6-30, FT6-32, FT6-34
Mechanical Interlocking module		FR6-32 Adaptive to Product of 9-32A, Horizontal Installation FR6-95 Adaptive to Product of 40-95A, Horizontal Installation
X6 Coil		Not applicable
Main Contact		Not applicable
Thermal Overload Relay		CDR6-18 / 0.10-0.15A / 0.12-0.18A / … / 14-18A CDR6-32 / 6.3-9A / 9-12A / … / 23-32A CDR6-95 / 30-40A / 37-50A / … / 80-95A

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

CDC6-115～630A Contactor Accessory



Top of Auxiliary Contact		2 poles: FD6-11, FD6-20, FD6-02 4 poles: FD6-22, FD6-13, FD6-31, FD6-40, FD6-04
Side Auxiliary Contact		No Side Auxiliary Contact
Air Delayed Head		Making time-delay: FT6-20, FT6-22, FT6-24 Breaking time-delay: FT6-30, FT6-32, FT6-34
Mechanical Interlocking module		Horizontal Installation and Vertical Installation
X6 Coil		Spare parts, X6-115-630 (Voltage AC:230V, 400V for Option)
Main Contact		Spare parts, MC6-115~630
Thermal Overload Relay		Available to adopt JRS2 Series of Thermal Overload Relay

CDC6 AC Contactor

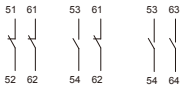
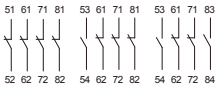
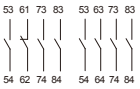
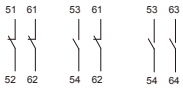
Standard: IEC60947-1,IEC 60947-4-1



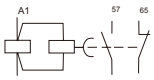
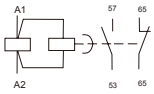




Auxiliary Contact

Installation Position	Pole	Composition NO	Composition NC	Contact Point Layout	Reference
Top	2	0	2	 2NC 1NO1NC 2NO	FD6 02
		1	1		FD6 11
		2	0		FD6 20
	4	0	4	 4NC 1NO3NC 2NO2NC	FD6 04
		1	3		FD6 13
		2	2		FD6 22
		3	1	 3NO1NC 4NO	FD6 31
		4	0		FD6 40
Side	2	0	2	 2NC 1NO1NC 2NO	FC6 02
		1	1		FC6 11
		2	0		FC6 20

FT6 Air Delayed Contact

Installation Position	Delay Type	Wiring Diagram	Delay Range	Reference
Top	Making time-delay		0.1-3s	FT6 20
			0.1-30s	FT6 22
			10-180s	FT6 24
	Breaking time-delay		0.1-3s	FT6 30
			0.1-30s	FT6 32
			10-180s	FT6 34

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

Mechanical Interlock Module



Horizontal Installation		
Interlock Method	Contact Type	Reference
Mechanical Interlock	CDC6-9~32	FR6 32 H
Electricity Interlock	CDC6-40~95	FR6 95 H
Interlock without Electricity	CDC6-115~150	FR6 FF H
	CDC6-185~225	FR6 GG H
	CDC6-265~330	FR6 HH H
	CDC6-400~500	FR6 KK H
	CDC6-630	FR6 LL H



Vertical Installation (Mechanical without Electricity)		
Contact Type		Interlock Device Reference
Bottom	Top	
CDC6-115 or CDC6-150	CDC6-115	FR6 FF V
	CDC6-150	FR6 FF V
	CDC6-185	FR6 FG V
	CDC6-225	FR6 FG V
	CDC6-265	FR6 FH V
	CDC6-330	FR6 FH V
	CDC6-400	FR6 FH V
	CDC6-500	FR6 FH V
	CDC6-630	FR6 FL V
CDC6-185 or CDC6-225	CDC6-185	FR6 GG V
	CDC6-225	FR6 GG V
	CDC6-265	FR6 GK V
	CDC6-330	FR6 GK V
	CDC6-400	FR6 GK V
	CDC6-500	FR6 GK V
	CDC6-630	FR6 GL V
CDC6-265 or CDC6-330	CDC6-265	FR6 HK V
	CDC6-330	FR6 HK V
	CDC6-400	FR6 HK V
	CDC6-500	FR6 HK V
	CDC6-630	FR6 HL V
CDC6-400	CDC6-400	FR6 HK V
	CDC6-500	FR6 HK V
	CDC6-630	FR6 HL V
CDC6-500	CDC6-500	FR6 HK V
	CDC6-630	FR6 HL V
CDC6-630	CDC6-630	FR6 LL V



Note: Vertical installation adopts mechanical Interlock Device equipped with the interlock without electricity

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

X6 Coil



Adaptive Contactor	Coil Voltage	Reference
115A-150A	220V	X6 150 M
	380V	X6 150 Q
185A-225A	220V	X6 225 M
	380V	X6 225 Q
265A-330A	220V	X6 330 M
	380V	X6 330 Q
400A	220V	X6 400 M
	380V	X6 400 Q
500A	220V	X6 500 M
	380V	X6 500 Q
630A	220V	X6 630 M
	380V	X6 630 Q

MC6 Main Contact



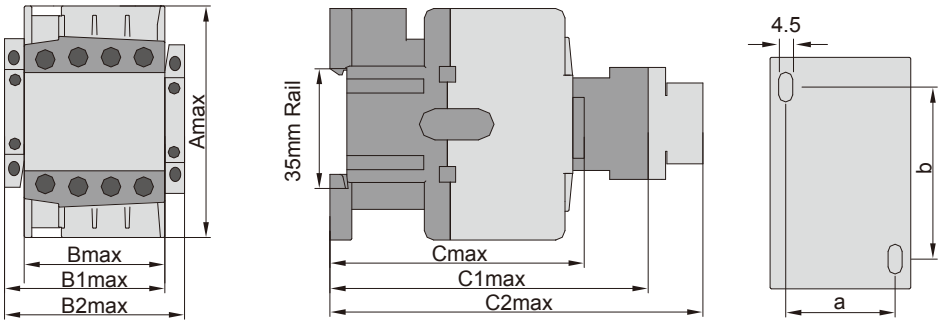
Number of Pole	Contactor Current Specification	Reference
3	115A	MC6 115
	150A	MC6 150
	185A	MC6 185
	225A	MC6 225
	265A	MC6 265
	330A	MC6 330
	400A	MC6 400
	500A	MC6 500
	630A	MC6 630

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

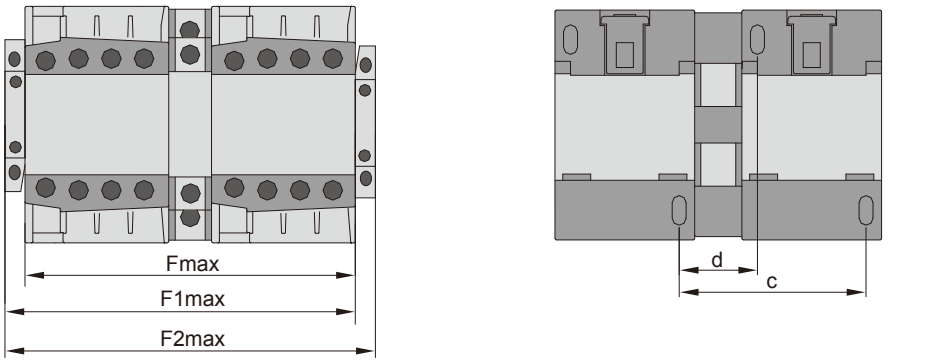
Overall Dimension of Installation

CDC6-9~32



CDC6	9/12	18	25/32
A	74.5	74.5	80
B (without accessory)	45.5	45.5	56.5
B1 (with a FC6)	58	58	69
B2 (with two FC6)	71	71	82
C (without accessory)	84	89	99.5
C1 (with FD6)	116	122	132
C2 (with FT6)	141	145	156
a	35	35	40
b	50/60	50/60	50/70

CDC6-9~32N



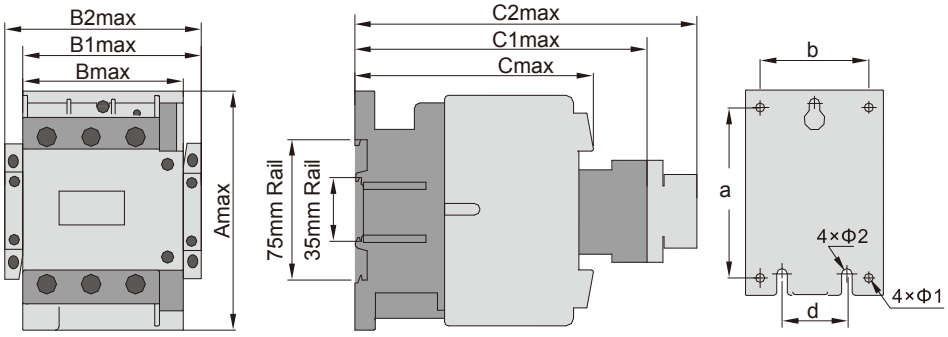
CDC6-	9N/12N	18N	25N/32N
F (without accessory)	108	108	132
F1 (with a FC6)	119	119	143
F2 (with two FC6)	131	131	155
c	60	60	71.5
d	25	25	31.5

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

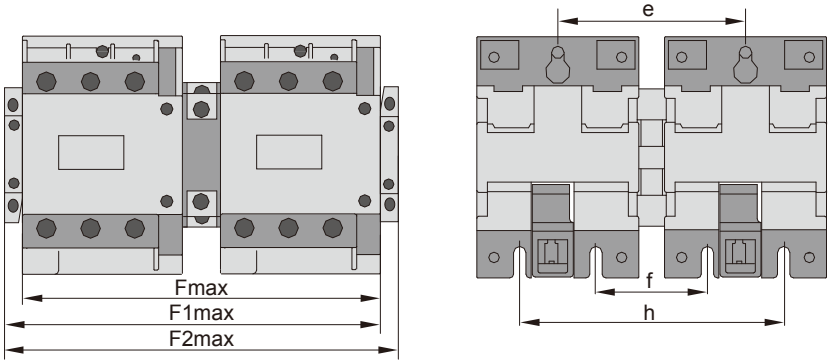
Overall Dimension of Installation

CDC6-40~95



CDC6	40/50/65	80/95
A	127	127
B (without accessory)	75	85
B1 (with a FC6)	89	99
B2 (with two FC6)	102	112
C (without accessory)	118.5	127.5
C1 (with FD6)	150	160
C2 (with FT6)	175	185
a	105	105
b	59	67
c	105	105
d	40	40
Φ1	5.5	5.5
Φ2	6.5	6.5

CDC6-40~95N



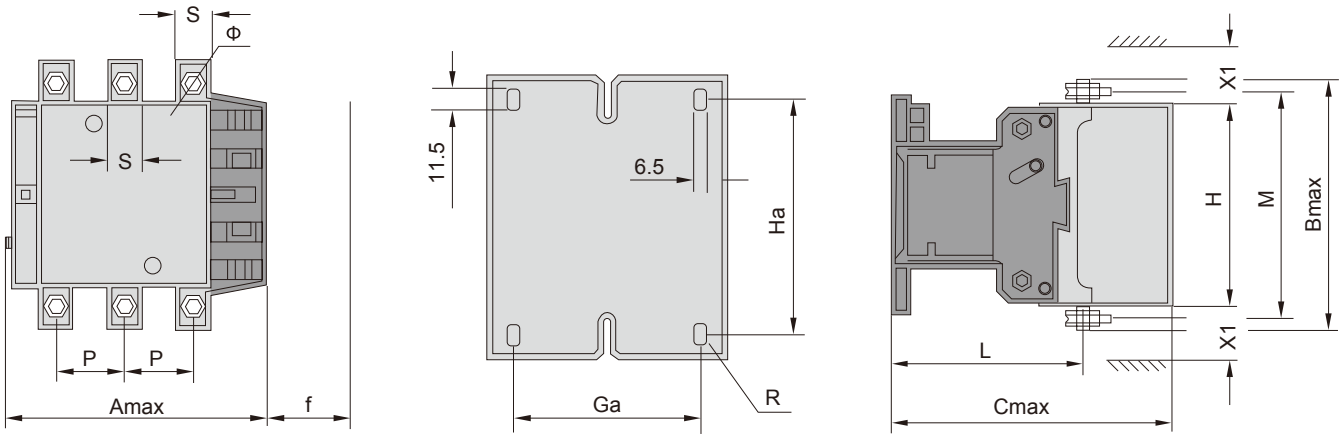
CDC6	40N/50N/65N	80N/95N
F (without accessory)	169	190
F1 (with a FC6)	182	203
F2 (with two FC6)	195	216
e	90	100.5
f	50	60.5
h	130	140

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

Overall Dimension of Installation

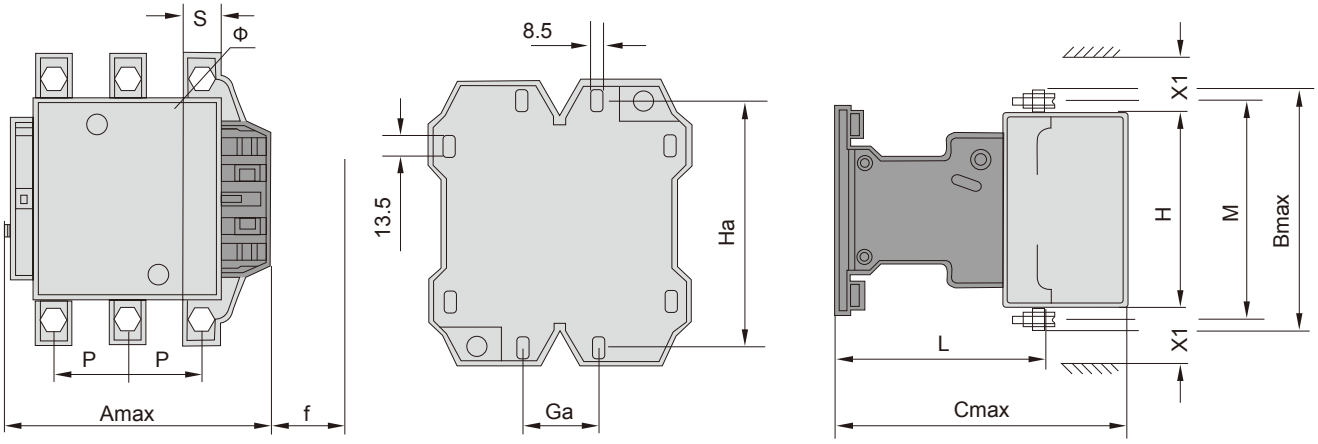
CDC6-115-330



Type	Amax	Bmax	Cmax	P	S	φ	f	M	H	L	X1 (200-550V)	X1 (600-1000V)	Ga	Ha
CDC6-115	167	163	172	37	20	M6	131	147	124	107	10	15	80	110~120
CDC6-150	167	171	172	40	20	M8	131	150	124	107	10	15	80	110~120
CDC6-185	171	174	183	40	20	M8	131	154	127	113.5	10	15	80	110~120
CDC6-225	171	197	183	48	25	M10	131	172	127	113.5	10	15	80	110~120
CDC6-265	202	203	215	48	25	M10	147	178	147	141	10	15	96	110~120
CDC6-330	213	206	220	48	25	M10	147	181	158	145	10	15	96	110~120

Note:" f " reserved space to ensure draw-out coil can take out easily.

CDC6-400~500



Type	Amax	Bmax	Cmax	P	S	Φ	f	M	H	L	X1 (200-550V)	X1 (600-1000V)	Ga	Ha
CDC6-400	213	206	220	48	25	M10	146	181	158	145	15	20	80	170~180
CDC6-500	223	233	233	55	30	M10	150	208	172	146	15	20	80	170~180

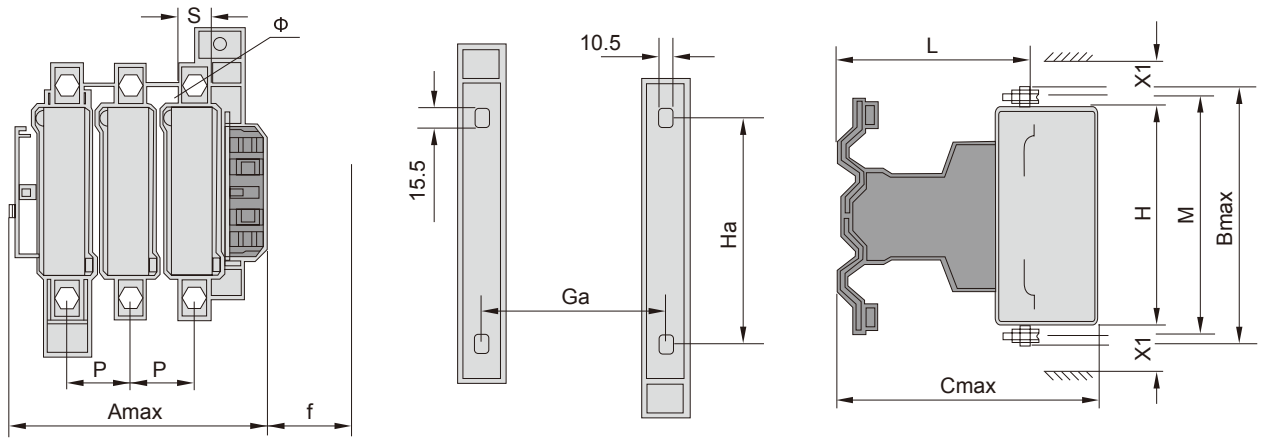
Note:" f " reserved space to ensure draw-out coil can take out easily.

CDC6 AC Contactor

Standard: IEC60947-1,IEC 60947-4-1

Overall Dimension of Installation

CDC6-630

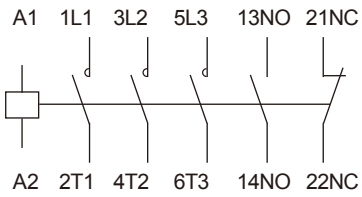


Type	Amax	Bmax	Cmax	P	S	Φ	f	M	H	L	X1 (200-550V)	X1 (600-1000V)	Ga	Ha
CDC6-630	309	304	256	80	40	M12	181	264	202	155	20	30	180	180~190

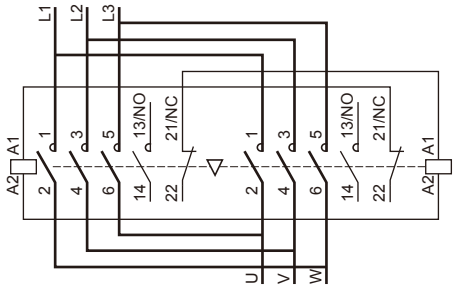
Note:" f " reserved space to ensure draw-out coil can take out easily.

Wiring Diagram

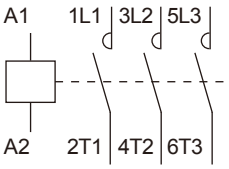
CDC6-09~95



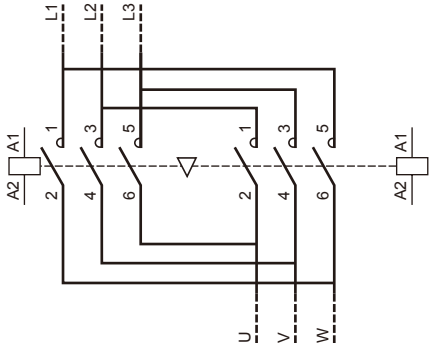
CDC6-09N~95N
(Horizontal Installation, Mechanical +Electrical Interlock)



CDC6-115~630



CDC6-115N~630N
(Horizontal Installation, Mechanical Interlock)



CDR6 Thermal Overload Relay

Standard: IEC60947-4-1,IEC 60947-5-1

Order Information

Product Type	Frame Current	Setting Current
CDR6	18	P15
	18:18A 32:32A 95:95A	P15：0.1-0.15 … 95：80-95 P means decimal point









Range for Setting Current	Fuse used for Matching with Rely		Matched Contactor	Reference
	am	Gg		
0.10-0.15A	0.25	2	CDC6-09~18	CDR6 18 P15
0.12-0.18A	0.25	2	CDC6-09~18	CDR6 18 P18
0.18-0.25A	0.5	2	CDC6-09~18	CDR6 18 P25
0.25-0.36A	1	2	CDC6-09~18	CDR6 18 P36
0.35-0.50A	1	2	CDC6-09~18	CDR6 18 P5
0.50-0.70A	1	2	CDC6-09~18	CDR6 18 P7
0.63-0.90A	2	4	CDC6-09~18	CDR6 18 P9
0.90-1.20A	2	4	CDC6-09~18	CDR6 18 1P2
1.20-1.80A	4	6	CDC6-09~18	CDR6 18 1P8
1.80-2.50A	4	6	CDC6-09~18	CDR6 18 2P5
2.50-3.60A	6	10	CDC6-09~18	CDR6 18 3P6
3.50-4.80A	8	16	CDC6-09~18	CDR6 18 4P8
4.50-6.30A	8	16	CDC6-09~18	CDR6 18 6P3
5-7A	12	20	CDC6-09~18	CDR6 18 7
6.3-9A	12	20	CDC6-09~18	CDR6 18 9
9-12A	16	25	CDC6-09~18	CDR6 18 12
11-15A	20	35	CDC6-09~18	CDR6 18 15
14-18A	20	35	CDC6-09~18	CDR6 18 18
6.3-9A	12	20	CDC6-25~32	CDR6 32 9
9-12A	16	25	CDC6-25~32	CDR6 32 12
12-18A	20	35	CDC6-25~32	CDR6 32 18
18-25A	25	50	CDC6-25~32	CDR6 32 25
23-32A	40	63	CDC6-25~32	CDR6 32 32
18-25A	25	50	CDC6-40~95	CDR6 95 25
23-32A	40	63	CDC6-40~95	CDR6 95 32
30-40A	40	100	CDC6-40~95	CDR6 95 40
37-50A	63	100	CDC6-40~95	CDR6 95 50
48-65A	63	100	CDC6-40~95	CDR6 95 65
55-70A	80	125	CDC6-40~95	CDR6 95 70
63-80A	80	125	CDC6-40~95	CDR6 95 80
80-95A	100	160	CDC6-40~95	CDR6 95 95

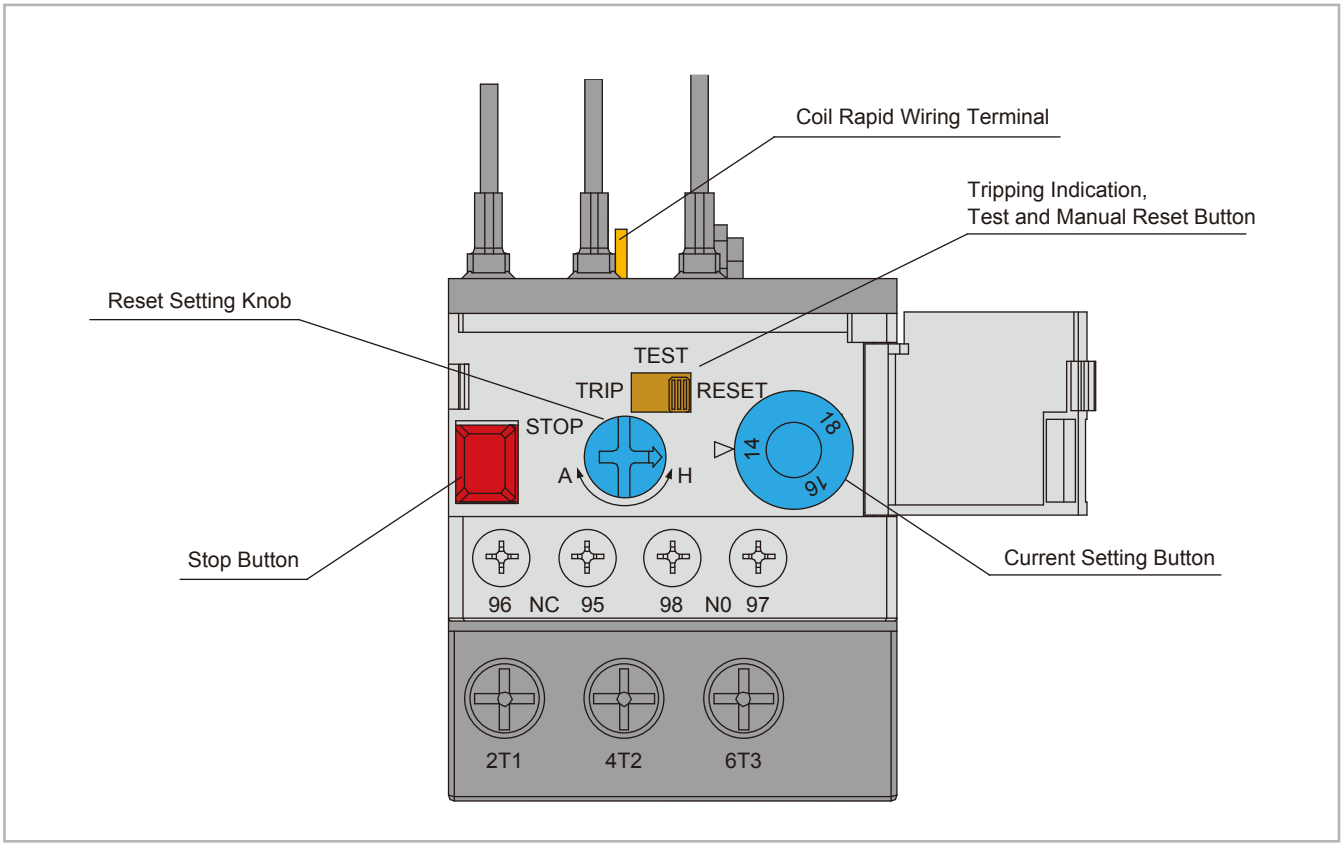
Base

Adaptive Thermal Relay Type	Reference
CDR6-18	CDR6 18 J
CDR6-32	CDR6 32 J
CDR6-95	CDR6 95 J

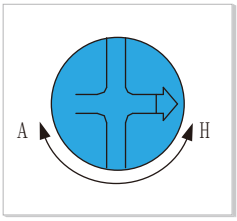
CDR6 Thermal Overload Relay

Standard: IEC60947-4-1,IEC 60947-5-1

Introduction for Functions

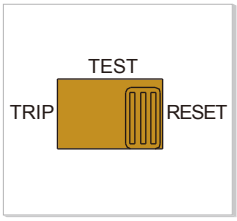


1.Reset Setting Knob



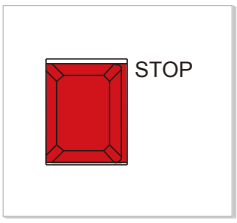
- Manual Reset for Arrow Pointing to “H ”
- Automatic Reset for Arrow Pointing to “A”

2.Tripping Indicator, Test and Manual Reset Button



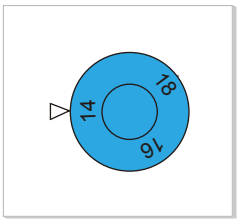
- After the operation of tripping indication and thermal overload relay, yellow button to “Trip” position means “tripping”;
- After the operation of manual reset, the reset is realized to put yellow button back to “Reset” position;
- Implement the test to simulate the tripping (use NC and NC Contact to operate) and check the control circuit. When carrying out the test under manual reset state, put back to “Reset” position after reaching “Trip”. Automatically rebound to “Reset” after switching to “Trip” for automatic reset.

3.Stop Button



- Make NC Contact operate, but not influence NO contact. After pressing Stop Button, cut control circuit off and the electromotor stops working.

4.Current Setting Button



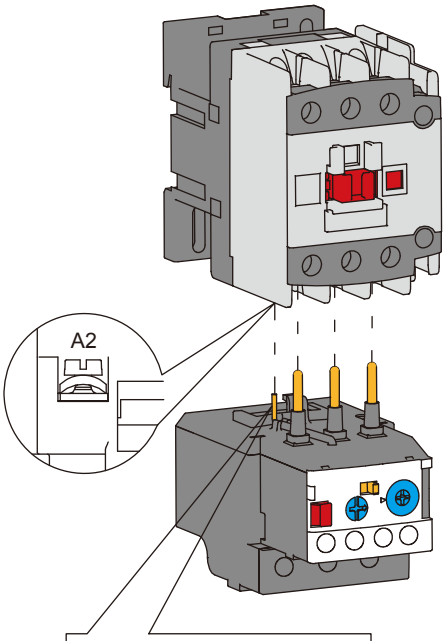
- Set the value of setting current for rated electromotor.

CDR6 Thermal Overload Relay

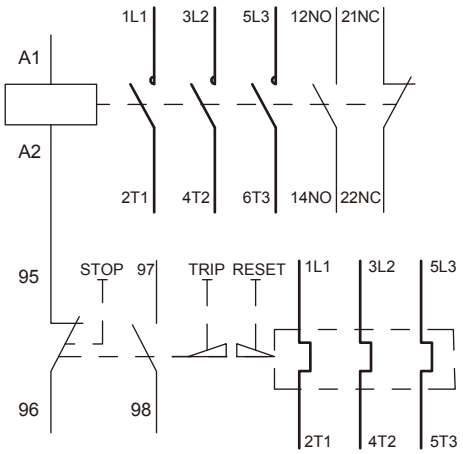
Standard: IEC60947-4-1,IEC 60947-5-1

Installation Method

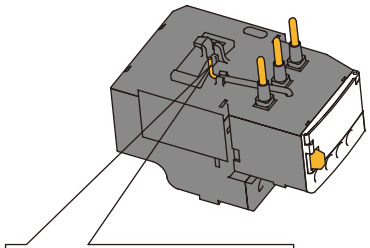
Assembly Installation



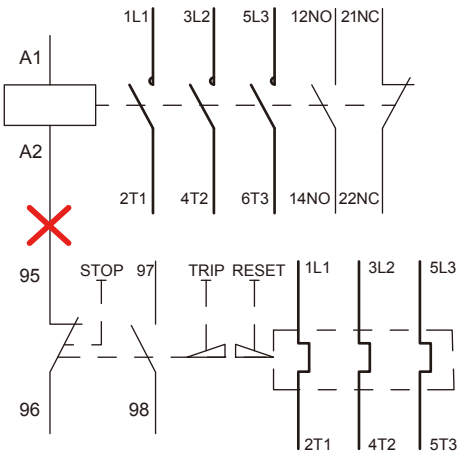
This wire is the coil rapid wiring terminal, which can be used as the assembly with the contactor. When two are completely connected, it is to ensure that the screw in A2 contact point of the contactor coil is tightened.



Independent Installation



If this wiring terminal is not used, it can be cut short and then insulating tape can be used in conductive parts.



CDR6 Thermal Overload Relay

Standard: IEC60947-4-1,IEC 60947-5-1

Main Technical Parameter

		CDR6-18	CDR6-32	CDR6-95
Trip class		10A	10A	10
Frame Current		18A	32A	95A
Rated Insulating Voltage		690V	690V	690V
Phase Failure Protection		Have	Have	Have
Manual and Automatic Reset		Have	Have	Have
Tripping Indication		Have	Have	Have
Stop Button		Have	Have	Have
Test Button		Have	Have	Have
Temperature Compensation		Have	Have	Have
Installation Method		Plug-in/Independent	Plug-in/Independent	Plug-in/Independent
Auxiliary Contact				
Rated Thermal Current		6A	6A	6A
Contact Type		1NO+1NC	1NO+1NC	1NO+1NC
Control Capacity	AC-15 230V	1.64A	1.64A	1.64A
	AC-15 400V	0.95A	0.95A	0.95A
	DC-13 220V	0.23A	0.23A	0.23A
Wiring Ability				
Main Circuit	Section of Connecting Conduction	1~4mm^2	1~4mm^2	1~4mm^2
	Fastened Torque	1.2N·m	1.7N·m	6N·m
Auxiliary Circuit	Section of Connecting Conduction	1mm^2	1mm^2	1mm^2
	Fastened Torque	1.2N·m	1.2N·m	1.2N·m

Operating Features for Thermal Overload Relay

No.	Mulriple of Setting Current		Operation Time		Starting Condition	Environmental Temperature
			Trip class 10A	Trip class 10		
Operating Features for Phase Loading Balance						
1	1.05		Without operation within 2h	Without operation within 2h	Cold State	+20°C
2	1.2		Operation within 2h	Operation within 2h	Hot State (after No.1 Test)	
3	1.5		＜2min	＜4min	Hot State (after No.1 Test)	
4	7.2		2s＜Tp≤10s	4s＜Tp≤10s	Cold State	+20°C
Operating Features for Phase Loading Unbalance (Phase Failure)						
	Any 2-Phase, 3rd Phase					
1	1.0	0.9	Without operation within 2h	Without operation within 2h	Cold State	+20°C
2	1.15	0	Operation within 2h	Operation within 2h	Hot State (after No.1 Test)	

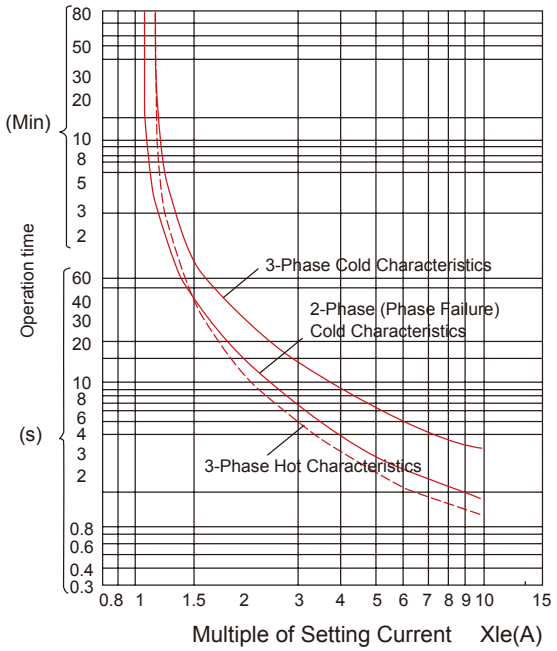
CDR6 Thermal Overload Relay

Standard: IEC60947-4-1,IEC 60947-5-1

Operating Characteristics and Wiring Diagram

Operating Characteristics

Average Value (Environmental Temperature: 20°C)



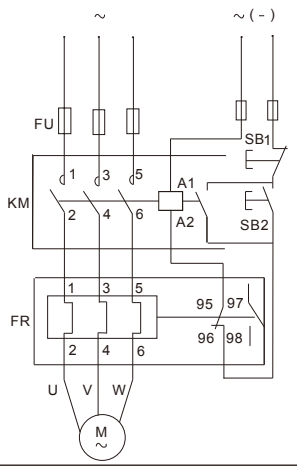
Environmental Requirements

- Ambient Temperature:

-10°C~+40°C

- Altitude: ≤ 2000m
- Pollution Level: III
- No obvious shaking and shock vibration

Wiring Diagram

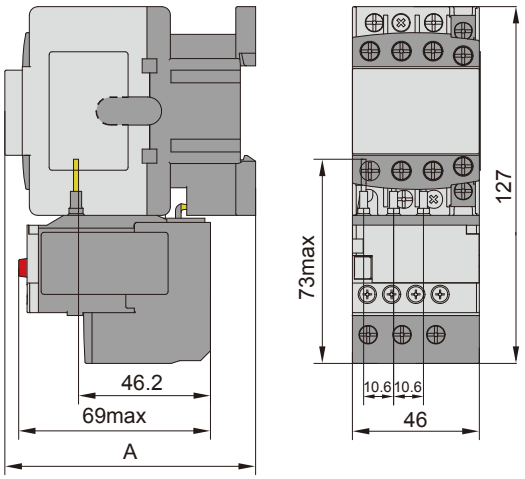


CDR6 Thermal Overload Relay

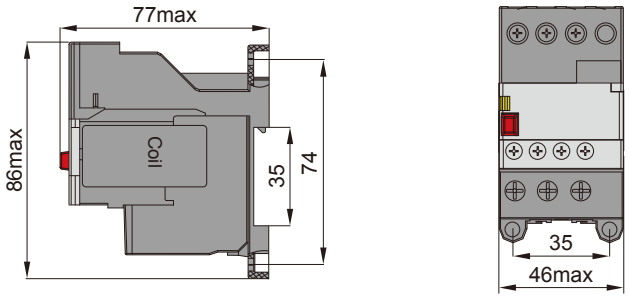
Standard: IEC60947-4-1,IEC 60947-5-1

Overall Dimension of Installation

CDR6-18

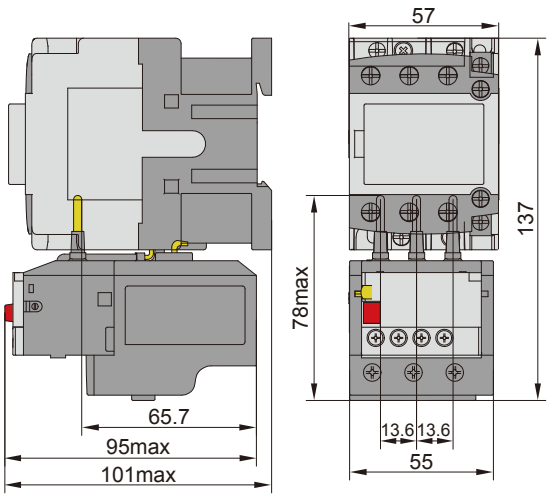


CDR6-18 Independent Installation

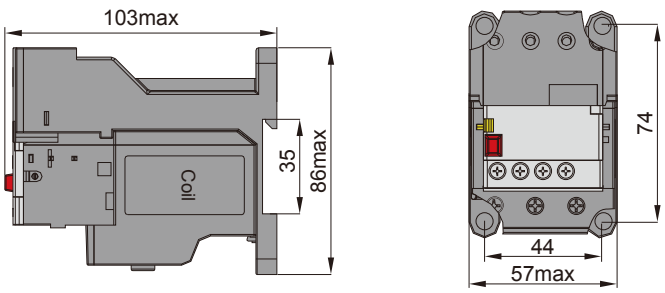


Assembly Installation for CDR6-18 and CDC6-09, 12 &18			
	CDC6-09	CDC6-12	CDC6-18
A	84	84	89

CDR6-32



CDR6-32Independent Installation

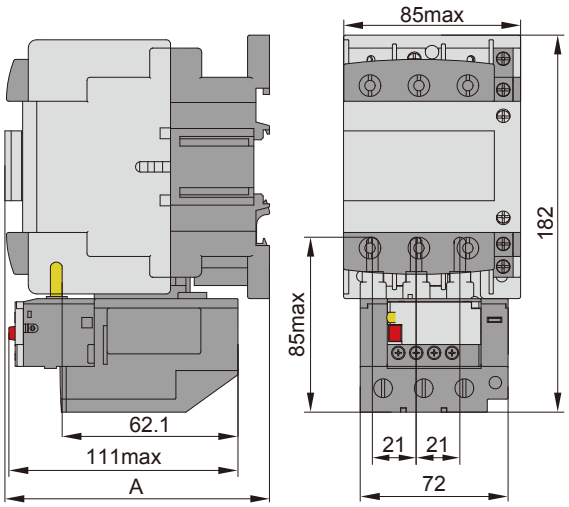


CDR6 Thermal Overload Relay

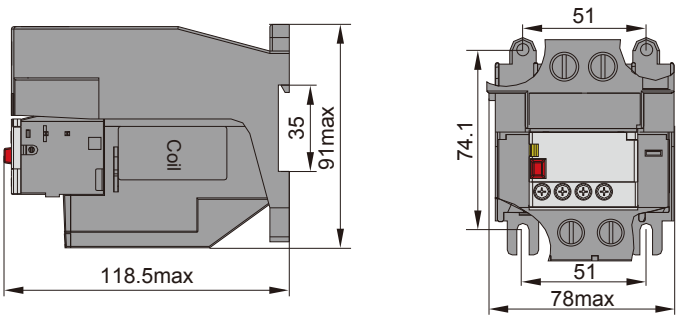
Standard: IEC60947-4-1,IEC 60947-5-1

Overall Dimension of Installation

CDR6-95



CDR6-95 Independent Installation



Assembly Installation for CDR6-95 and CDC6-40&95					
	CDC6-40	CDC6-50	CDC6-65	CDC6-80	CDC6-95
A	118.5	118.5	118.5	127.5	127.5

CDC17-K Mini AC Contactor

Standard: IEC 60947-4-1

Function

CDC17-K AC contactor provide:

- Remote make & break of circuits
- Frequent start and stop of motors



Order Information

Moter P(kW) 380V	Rated current(A)	Main contact		Auxiliary contact		Reference
		NO	NC	NO	NC	
2.2	6	3	0	1	0	CDC17K63010* •
		3	0	0	1	CDC17K63001* •
		4	0	0	0	CDC17K64000* •
		2	2	0	0	CDC17K62200* •
4	9	3	0	1	0	CDC17K93010* •
		3	0	0	1	CDC17K93001* •
		4	0	0	0	CDC17K94000* •
		2	2	0	0	CDC17K92200* •
4	12	3	0	1	0	CDC17K123010* •
		3	0	0	1	CDC17K123001* •
		4	0	0	0	CDC17K124000* •

Reference Description

CDC17-K 6 30 10 * •

- • — Coil Frequency
- * — Coil Voltage
- 10 — Auxiliary contact
- 30 — Main contact
- 6 — Rate current
- CDC17-K — Model

■ Coil voltage code

coil voltage	24V	36V	110V	127V	220V	380V	400V
*	B	C	F	S	M	Q	V

■ Coil frequency code

coil frequency	50Hz	60Hz
•	5	6

CDC17-K Mini AC Contactor

Standard: IEC 60947-4-1

Technical Data

Model			CDC17-K06	CDC17-K09	CDC17-K12
Main circuit characteristics					
Rated operational current	380V/400V, AC-3	A	6	9	12
	380V/400V, AC-4	A	2.6	3.5	5
	660V/690V, AC-3	A	3.5	5	6
	660V/690V, AC-4	A	1.2	1.5	2
Rated operational voltage		V	220/230, 380/400, 660/690		
Rated insulation voltage		V	690		
Rated conventional thermal current		A	16	20	
Pole			3, 4		
Power of controlled	220V/230V, AC-3	kW	1.5	2.2	3
3-phase cage motor	380V/400V, AC-3	kW	2.2	4	5.5
	660V/690V, AC-3	kW	3	4	7.5
Electric durabilities	AC-3	$\times 10^4$ operations	100		
Operating rate		cycles/h	1200		
Electric durabilities	AC-4	$\times 10^4$ operations	20		
Operating rate		cycles/h	600		
Mechanical durabilities		$\times 10^4$ cycles	1000		
Matched Fuse			RT16-16	RT16-20	
Cable connection	Inflexible cable	number of piece	2		
	Cross Section of Cable	mm^2	4		
Coil					
Coil voltage(Us)		V	AC 24,36,110,127,220,380,400		
Operational voltage		V	85%～110% Us		
Drop-out voltage		V	20%～75% Us		
Inrush		VA	30		
Sealed		VA	4.5		
Auxliary contact					
Rated conventional thermal current		V	690		
Rated insulation voltage		A	10		
Rated operational current	380V, AC-15	A	0.95		
	220V, DC-13	A	0.15		
Control capacity	AC-15	VA	360		
	DC-13	W	33		

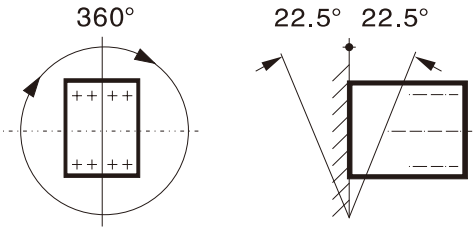
CDC17-K Mini AC Contactor

Standard: IEC 60947-4-1

Working Conditions

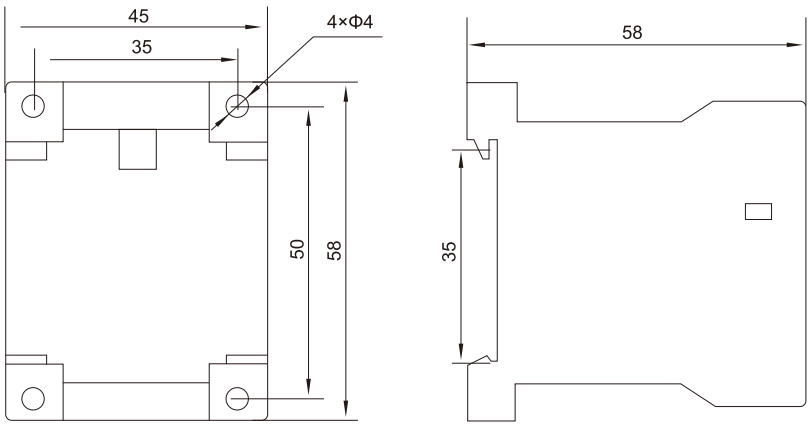
- Ambient temperature:-5℃～+40℃, the daily average temperature ≤ 35℃
- Altitude: ≤ 2000 m
- Humidity: Maximum temperature is +40℃, air relative humidity of not more than 50%,at a lower temperature allows a higher relative humidity. For example, 20℃, when up to 90%, and occasionally due to temperature changes resulting from Gel should take special measures
- Pollution Level: 3
- Installation Type: III
- Installation position: should be installed in the absence of a significant shake and shock and vibration place

Install Location



Overall Dimensions

Unit: mm



CDR17-18 Thermal Overload Relay

Standard: IEC 60947-4-1

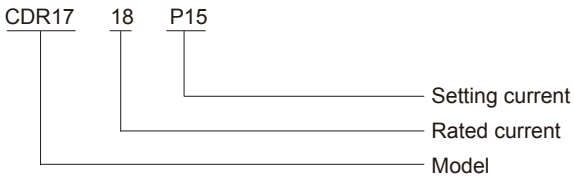
Function

CDR17 series thermal overload relay provide:

- Protection of circuits and motors against overload
- Protection of circuits and motors against phase loss
- Motor starters installation in association with contactors

Order Information

Reference Description



Type	Rated insulation voltage Ui V	Frame size rated current	Range of current setting A	Reference	Recommended contactor
CDR17-18	690	18	0.1~0.13~0.15	CDR1718P15	CDC17-K-9~18
			0.12~0.16~0.18	CDR1718P18	CDC17-K-9~18
			0.18~0.2~0.25	CDR1718P25	CDC17-K-9~18
			0.25~0.32~0.36	CDR1718P36	CDC17-K-9~18
			0.35~0.4~0.5	CDR1718P5	CDC17-K-9~18
			0.5~0.6~0.7	CDR1718P7	CDC17-K-9~18
			0.63~0.72~0.9	CDR1718P9	CDC17-K-9~18
			0.9~1~1.2	CDR17181P2	CDC17-K-9~18
			1.2~1.6~1.8	CDR17181P8	CDC17-K-9~18
			1.8~2~2.5	CDR17182P5	CDC17-K-9~18
			2.5~3.2~3.6	CDR17183P6	CDC17-K-9~18
			3.5~4~4.8	CDR17184P8	CDC17-K-9~18
			4.5~5~6.3	CDR17186P3	CDC17-K-9~18
			5~6~7	CDR17187	CDC17-K-9~18
			6.3~7.2~9	CDR17189	CDC17-K-9~18
			9~10~12	CDR171812	CDC17-K-9~18
			11~13~15	CDR171815	CDC17-K-9~18
			14~16~18	CDR171818	CDC17-K-9~18



CDR17-18 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

Technical Data

Temperature compensation	-10℃~+55℃			
Trip class 10A	CDR17-18			
Rated insulation voltage Ui V	690V			
Structure characteristics				
Overload protection	Yes			
Phase-failure protection	Yes			
Manual reset	Yes			
Automatic reset	Yes			
Stop button	Yes			
Test button	Yes			
Trip direction	Yes			
Tolerance on slope in any direction	±22.5°			
Control circuit				
Utilization category	AC-15			DC-13
Rated frequency Hz	50	50	50	
Rated insulation voltage Ui V	690	690	690	690
Rated operational voltage Ue V	220/230	380/400	660/690	220/230
Rated operational current Ie A	1.64/1.57	0.95/0.9	0.55/0.52	0.23/0.22
Conventional free air thermal current Ith A	6	6	6	6
Contact circuit				
Utilization category	AC-15			DC-13
Rated frequency Hz	50			
Rated insulation voltage Ui V	690			690
Rated operational voltage Ue V	660/690			220/230
Rated operational current Ie A	6			6
Conventional free air thermal current Ith A	6			6

CDR17-18 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

Trip Characteristic

Sequence	Multiples of setting current		Trip time Trip class 10A	Initial condition	Ambient temperature
Limits of operation of relays when energized on all poles					
1	1.05		>2h	From cold state	+20℃
2	1.2		<2h	From hot state(immediately following sequence 1 test)	
3	1.5		＜2min	From hot state(immediately following sequence 1 test)	
4	7.2		2s＜Tp≤10s	From cold state	+20℃
Limits of operation when energized on two poles					
	Any two poles	The third-pole			
1	1.0	0.9	>2h	From cold state	+20℃
2	1.15	0	<2h	From hot state(immediately following sequence 1 test)	

Accessories

Base	Thermal Overload Relay	Reference
	CDR17-18	CDR1718J

CDR17-18 Thermal Overload Relay

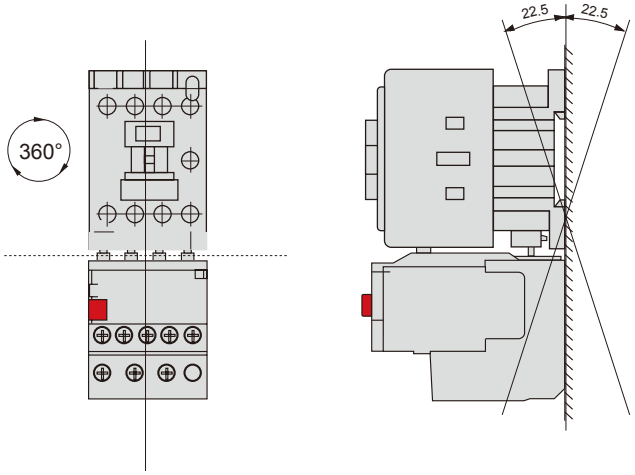
Standard: IEC 60947-4-1 IEC 60947-5-1

Work conditions

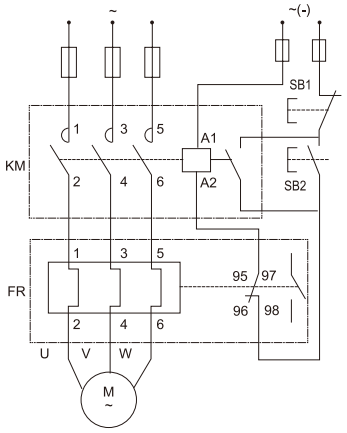
- Ambient temperature: -10℃~+55℃, daily average temperature ≤35℃
- Altitude: ≤2000m
- Humidity: The relative humidity of the installtion position shall not exceed 50% when the maximum temperature reaches +40℃. But there can be higher relative humidity under lower temperature. For example, it can reach 90% when temperature is at 20℃. Special measures should be taken against condensation occuring on product surface caused by temperature change
- Pollution class: 3

Installation conditions

- Installation Type: III
- Installation position: Unobvious shake and impact shock is necessary. Vertically mounting. Tolerance on slope in any direction shall not exceed 22.5°



Wire Connection Picture



FU-Fuse
KM-Contactor
FR-Relay
SB1-Stop Button
SB2-Start Button

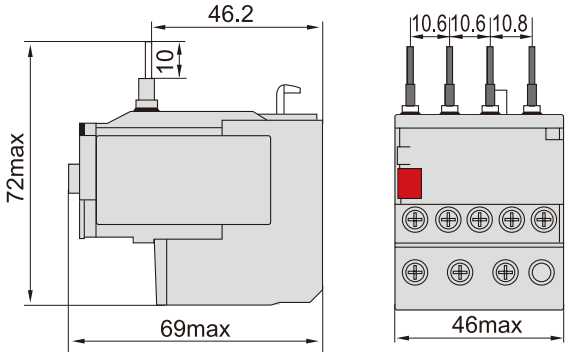
CDR17-18 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

Overall Dimensions

■ CDR17-18

Unit: mm



CJX2 AC Contactor

Standard: IEC 60947-4-1

Function

CJX2 AC contactors provide:

□ Remote make & break of circuits

□ Frequent start and stop of motors





Order Information

Motor P(kW) 380V	Rated current(A)	Auxiliary contact		Reference
		NO	NC	
5.5	9	1	0	CJX2910∗ •
		0	1	CJX2901∗ •
7.5	12	1	0	CJX21210∗ •
		0	1	CJX21201∗ •
10	18	1	0	CJX21810∗ •
		0	1	CJX21801∗ •
15	25	1	0	CJX22510∗ •
		0	1	CJX22501∗ •
18.5	32	1	0	CJX23210∗ •
		0	1	CJX23201∗ •
30	40	1	1	CJX24011∗ •
33	50	1	1	CJX25011∗ •
37	65	1	1	CJX26511∗ •
45	80	1	1	CJX28011∗ •
55	95	1	1	CJX29511∗ •

Reference Description

CJX2 9 10 * •

- • Coil Frequency
- * Coil Voltage
- 10 Auxiliary contact
- 9 Rate current
- CJX2 Model

■ Coil voltage code

coil voltage	36V	110V	127V	220V	380V	400V
*	C	F	S	M	Q	V

■ Coil frequency code

coil frequency	50Hz	60Hz
•	5	6

CJX2 AC Contactor

Standard: IEC 60947-4-1

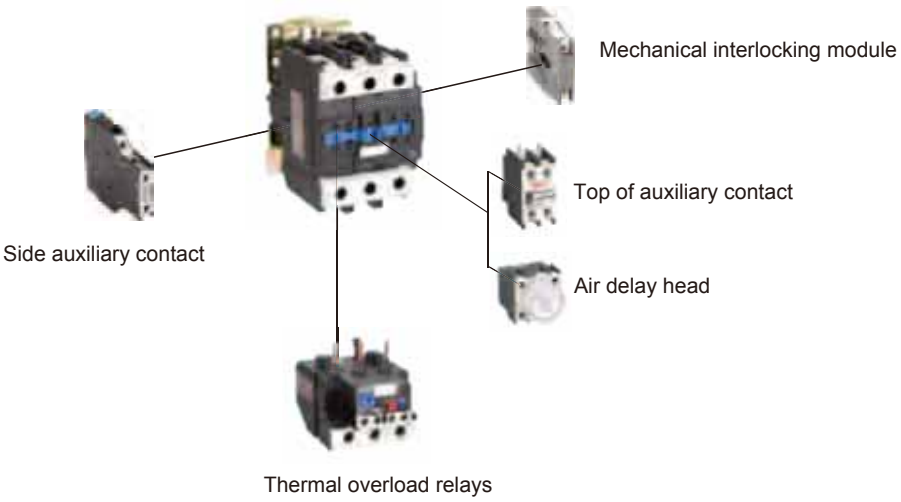
Technical Data

Model				CJX2-09	CJX2-12	CJX2-18	CJX2-25	CJX2-32	CJX2-40	CJX2-50	CJX2-65	CJX2-80	CJX2-95
Main circuit characteristics													
Rated operational voltage			V	400, 690									
Rated insulation voltage			V	690									
Conventional thermal current			A	25	25	32	40	50	60	80	80	125	125
Rated operational current	400V	AC-3	A	9	12	18	25	32	40	50	65	80	95
	400V	AC-4	A	3.5	5	7.7	18	21	34	39	42	49	55
	690V	AC-3	A	6.6	8.9	12	8.5	12	18.5	24	28	37	44
	690V	AC-4	A	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
Power of controlled 3-phase cage motor	400V,	AC-3	kW	4	5.5	7.5	11	15	18.5	22	30	37	45
	690V,	AC-3	kW	5.5	7.5	10	15	18.5	30	33	37	45	55
	400V,	AC-4	kW	2.2	3	4	5.5	7.5	7.5	11	15	18.5	22
Electric durabilities		AC-3	$\times 10^4$ operations	100				80	80			60	
		AC-4	$\times 10^4$ operations	20				20	15			10	
Mechanical durabilities			$\times 10^4$ cycles	1000				800	800			600	
Operating rate		AC-3	cycles/h	1200				600	600			600	
		AC-4	cycles/h	300				300	300			300	
Matched Fuse				RT16-20	RT16-20	RT16-32	RT16-40	RT16-50	RT16-63	RT16-80	RT16-80	RT16-100	RT16-125
Cable connection cross section			mm^2	1.5	1.5	2.5	4	**6**	10	16	16	25	35
Coil													
Coil voltage(Us)			V	AC36, 110, 127, 220, 380,400									
Operational voltage			V	85%~110%Us									
Drop-out voltage			V	20%~75%Us									
Inrush			VA	70			110		200				
Sealed			VA	9			11		24				
Heat dissipation			W	2.7			4		10				
Accessories													
Auxiliary contact			Front mount	F4									
			Side mount	FC6									
Time-delay block			Front mount	SK4									
Mechanical Interlock				FR632H					FR695HX				
Rated conventional thermal current			A	10									
Rated operational voltage		AC	V	400									
		DC	V	230									
Rated control capacity		AC-15	VA	360									
		DC-13	W	33									

CJX2 AC Contactor

Standard: IEC 60947-4-1

CJX2 Contactor Accessories



Contactor









	9	12	18	25	32	40	50	65	80	95
Top of auxiliary contact	2 Poles:F411,F402,F420 4 Poles: F404,F413,F422,F431,F440									
Side auxiliary contact	2 Poles: FC611, FC602, FC620									
Air delay head	Making time-delay: SK420,SK422,SK424 Breaking time-delay: SK430,SK432,SK434									
Mechanical interlocking module	9-32A: FR632H 40-95A: FR695HX									
Thermal overload relays	**JRS1D-25** 0.1-0.16A ... 17-25A			**JRS1D-36** 23-32A 30-40A		**JRS1D-93** 23-32A ... 80-93A				

CJX2 AC Contactor

Standard: IEC 60947-4-1

Accessories

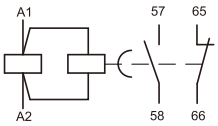
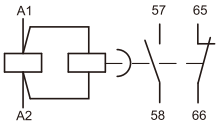


■ F4 Top of auxiliary contact

Pole	Contact		Wiring diagram	Reference
	NO	NC		
2P	1	1		F411
	0	2		F402
	2	0		F420
4P	0	4		F404
	1	3		F413
	2	2		F422
	3	1		F431
	4	0		F440



■ SK4 Air delay head

Delay Type	Wiring diagram	Delay Range	Reference
Making time-delay		0.1-3S	SK420
		0.1-30S	SK422
		10-180S	SK424
Breaking time-delay		0.1-3S	SK430
		0.1-30S	SK432
		10-180S	SK434



■ FC6 Side auxiliary contact

Pole	Contact		Wiring diagram	Reference
	NO	NC		
2P	0	2		FC602
	1	1		FC611
	2	0		FC620

CJX2 AC Contactor

Standard: IEC 60947-4-1

Accessories



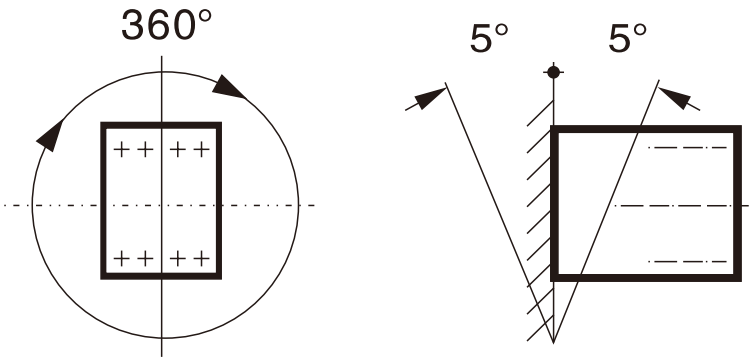
■ **Mechanical interlocking module**

Contactor Specifications	Reference
CJX2-9~32	FR632H
CJX2-40~95	FR695HX

Working Conditions

- Ambient temperature:-5℃～+40℃, the daily average temperature ≤ 35℃
- Altitude: ≤ 2000 m
- Humidity: Maximum temperature is +40℃, air relative humidity of not more than 50%, at a lower temperature allows a higher relative humidity. For example, 20℃, when up to 90%, and occasionally due to temperature changes resulting from Gel should take special measures
- Pollution Level: 3
- Installation Type: III
- Installation position: should be installed in the absence of a significant shake and shock and vibration place

Install Location



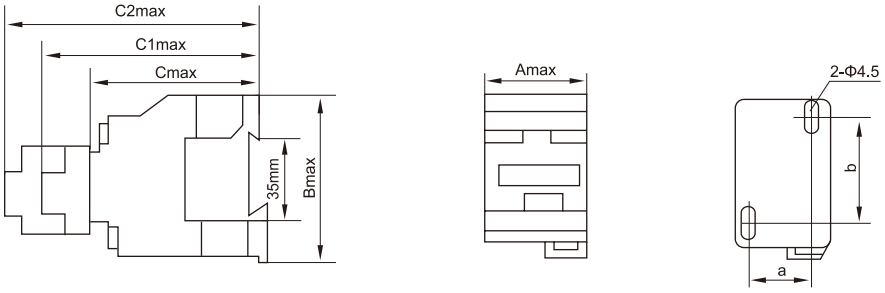
CJX2 AC Contactor

Standard: IEC 60947-4-1

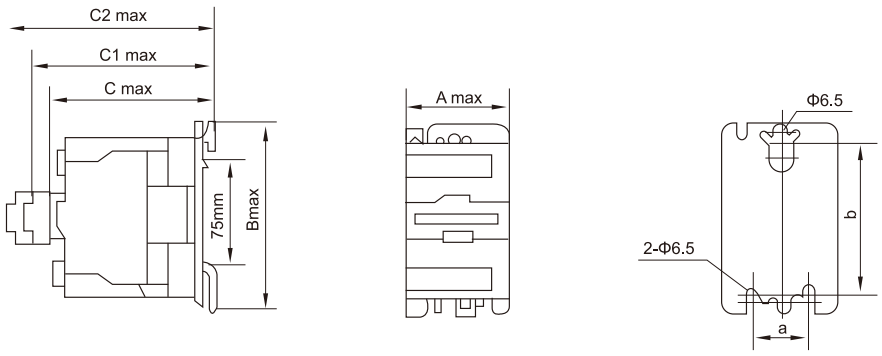
Overall Dimensions

Unit:mm

■ **CJX2-09~32**



■ **CJX2-40~95**



Product Type	Amax	Bmax	Cmax	C_1max	C_2max	a	b	d
CJX2-09~12	47	76	82	115	115	35	50/60	4.5
CJX2-18	47	76	87	120	120			
CJX2-25	57	86	97	130	130	40	50/60	4.5
CJX2-32	57	86	102	135	135			
CJX2-40~65	77	129	116	149	149	40	100/110	6.5
CJX2-80~95	87	129	127	160	160			

Note: C_1max is auxiliary contact group +F4 C_2max is air-delay contact+SK4

JRS1D Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

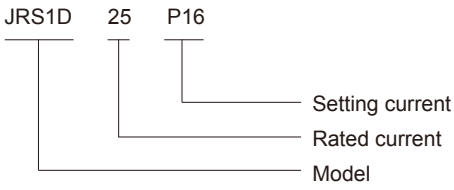
Function

JRS1D relay provide:

- Protect motor and circuit
- Possess overload and phase failure protection functions.

Order Information

Reference Description









Frame size rated current(A)	Current setting(A)	Reference	Recommended contactor	Recommended fuse
25	0.1~0.16	JRS1D25P16	CJX2-09~32	RT16-4
	0.16~0.25	JRS1D25P25	CJX2-09~32	RT16-4
	0.25~0.4	JRS1D25P4	CJX2-09~32	RT16-4
	0.4~0.63	JRS1D25P63	CJX2-09~32	RT16-4
	0.63~1	JRS1D251	CJX2-09~32	RT16-4
	1~1.6	JRS1D251P6	CJX2-09~32	RT16-4
	1.6~2.5	JRS1D252P5	CJX2-09~32	RT16-6
	2.5~4	JRS1D254	CJX2-09~32	RT16-10
	4~6	JRS1D256	CJX2-09~32	RT16-16
	5.5~8	JRS1D258	CJX2-09~32	RT16-20
	7~10	JRS1D2510	CJX2-09~32	RT16-20
	9~13	JRS1D2513	CJX2-12~32	RT16-25
	12~18	JRS1D2518	CJX2-18~32	RT16-35
	17~25	JRS1D2525	CJX2-25~32	RT16-50
36	23~32	JRS1D3632	CJX2-25~32	RT16-63
	30~40	JRS1D3640	CJX2-32	RT16-80
93	23~32	JRS1D9332	CJX2-40~95	RT16-63
	30~40	JRS1D9340	CJX2-40~95	RT16-80
	37~50	JRS1D9350	CJX2-50~95	RT16-100
	48~65	JRS1D9365	CJX2-50~95	RT16-100
	55~70	JRS1D9370	CJX2-65~95	RT16-125
	63~80	JRS1D9380	CJX2-80~95	RT16-125
	80~93	JRS1D9393	CJX2-95	RT16-160

JRS1D Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

Technical Data

Temperature compensation		-5℃~+40℃		
Trip class	10A	JRS1D-25, 36		
	10	JRS1D-93		
Rated insulation voltage Ui V		660V		
Structure characteristics				
Overload protection		Yes		
Phase-failure protection		Yes		
Manual reset		Yes		
Automatic reset		Yes		
Stop button		Yes		
Test button		Yes		
Trip direction		Yes		
Tolerance on slope in any direction		±5°		
Auxiliary circuit				
Utilization category		AC-15		DC-13
Rated frequency Hz		50	50	50
Rated insulation voltage Ui V		500	500	500
Rated operational voltage Ue V		230	400	230
Rated operational current Ie A		1.64	0.95	0.15
Conventional free air thermal current I_{th} A	NO	5	5	5
	NC	5	5	5

JRS1D Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

Accessories

	Thermal Overload Relay	Reference
	JRS1D-25	JRS1D25J
	JRS1D-36	JRS1D36J
	JRS1D-93	JRS1D93J

Trip Characteristic

Sequence	Multiples of setting current		Trip time		Initial condition	Ambient temperature
			Trip class 10A	Trip class 10		
Limits of operation of relays when energized on all poles						
1	1.05		>2h	>2h	From cold state	+20℃
2	1.2		<2h	<2h	From hot state(immediately following sequence 1 test)	
3	1.5		＜2min	＜4min	From hot state(immediately following sequence 1 test)	
4	7.2		2s＜ Tp≤10s	4s＜Tp≤10s	From cold state	+20℃
Limits of operation when energized on two poles						
	Any two poles	The third-pole				
1	1.0	0.9	>2h	>2h	From cold state	+20℃
2	1.15	0	<2h	<2h	From hot state(immediately following sequence 1 test)	

JRS1D Thermal Overload Relay

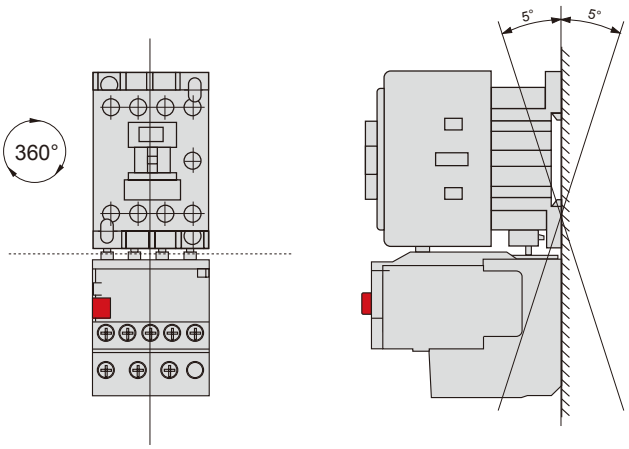
Standard: IEC 60947-4-1 IEC 60947-5-1

Work Conditions

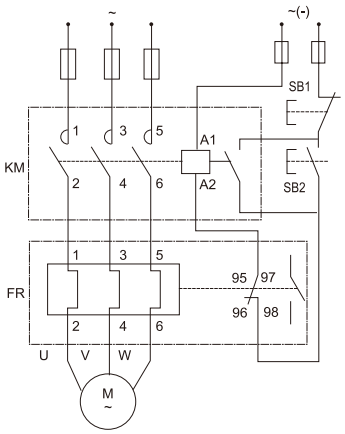
- Ambient temperature: -5℃~+40℃, daily average temperature ≤35℃
- Altitude: ≤2000m
- Humidity:The relative humidity of the installtion position shall not exceed 50% when the maximum temperature reaches +40℃. But there can be higher relative humidity under lower temperature. For example, it can reach 90% when temperature is at 20℃. Special measures should be taken against condensation occuring on product surface caused by temperature change
- Pollution class: 3

Installation Conditions

- Installation Type: III
- Installation position: Unobvious shake and impact shock is necessary. Vertically mounting. Tolerance on slope in any direction shall not exceed 5°



Wire Connection Picture



FU-Fuse
KM-Contactor
FR-Relay
SB1-Stop Button
SB2-Start Button

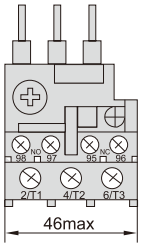
JRS1D Thermal Overload Relay

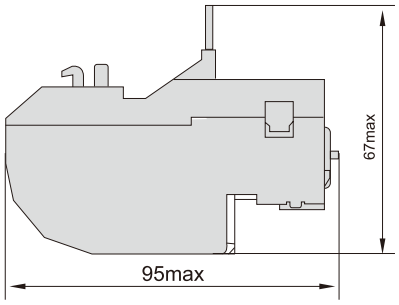
Standard: IEC 60947-4-1 IEC 60947-5-1

Overall Dimensions

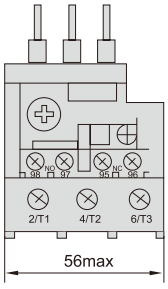
Unit: mm

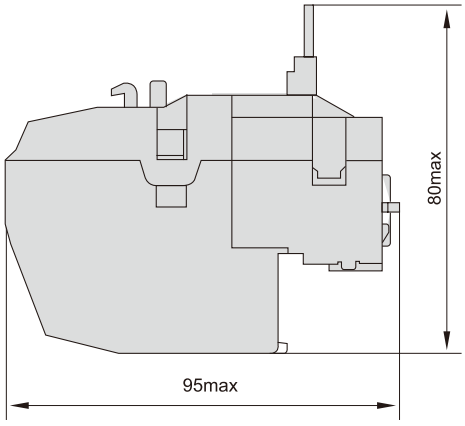
■ JRS1D-25



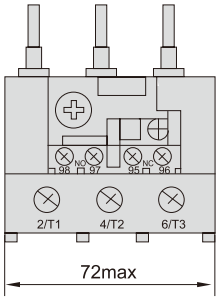


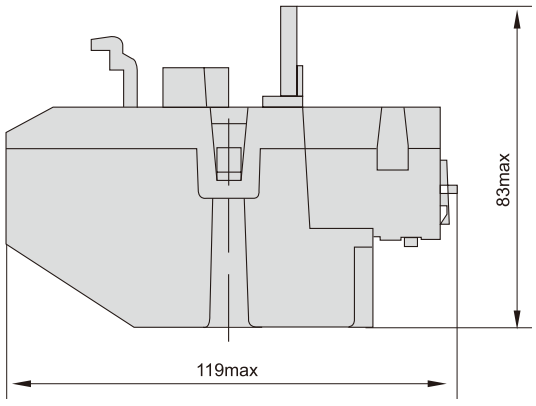
■ JRS1D-36





■ JRS1D-93





JRS2 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

Function

JRS2 relay provide:

- Protect motor and circuit
- Possess overload and phase failure protection functions.

Order Information

Reference Description

JRS2 12P5 P16

- F:Installed independently
- Setting current
- Rated current
- Model

Frame size rated current(A)	Current setting(A)	Reference	Recommended fuse
12.5	0.10~0.16	JRS212P5P16	RT16-4
	0.16~0.25	JRS212P5P25	RT16-4
	0.25~0.40	JRS212P5P4	RT16-4
	0.32~0.5	JRS212P5P5	RT16-4
	0.40~0.63	JRS212P5P63	RT16-4
	0.63~1.00	JRS212P51	RT16-4
	0.80~1.25	JRS212P51P25	RT16-4
	1.00~1.60	JRS212P51P6	RT16-4
	1.25~2.00	JRS212P52	RT16-4
	1.60~2.50	JRS212P52P5	RT16-6
	2.00~3.20	JRS212P53P2	RT16-6
	2.50~4.00	JRS212P54	RT16-6
	3.20~5.00	JRS212P55	RT16-6
	4.00~6.30	JRS212P56P3	RT16-10
	5.00~8.00	JRS212P58	RT16-20
	6.30~10.0	JRS212P510	RT16-20
	8.00~12.5	JRS212P512P5	RT16-20
	10.0~14.5	JRS212P514P5	RT16-25
25	0.10~0.16	JRS225P16	RT16-4
	0.16~0.25	JRS225P25	RT16-4
	0.25~0.40	JRS225P4	RT16-4
	0.40~0.63	JRS225P63	RT16-4
	0.63~1.00	JRS2251	RT16-4
	0.80~1.25	JRS2251P25	RT16-4
	1.00~1.60	JRS2251P6	RT16-4
	1.25~2.00	JRS2252	RT16-4
	1.60~2.50	JRS2252P5	RT16-6
	2.00~3.20	JRS2253P2	RT16-6
	2.50~4.00	JRS2254	RT16-6
	3.20~5.00	JRS2255	RT16-6
	4.00~6.30	JRS2256P3	RT16-10
	5.00~8.00	JRS2258	RT16-20
	6.30~10.0	JRS22510	RT16-20
	8.00~12.5	JRS22512P5	RT16-20
	10.0~16.0	JRS22516	RT16-25
	12.5~20.0	JRS22520	RT16-32
	16.0~25.	JRS22525	RT16-32





JRS2 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1







Frame size rated current(A)	Current setting(A)	Reference	Recommended fuse
32	4.00~6.30	JRS2326P3	RT16-10
	6.30~10.0	JRS23210	RT16-20
	10.0~16.0	JRS23216	RT16-25
	12.5~20.0	JRS23220	RT16-32
	16.0~25.0	JRS23225	RT16-32
	20.0~32.0	JRS23232	RT16-50
	25.0~36.0	JRS23236	RT16-50
45	0.10~0.16	JRS245P16	RT16-4
	0.16~0.25	JRS245P25	RT16-4
	0.25~0.40	JRS245P4	RT16-4
	0.40~0.63	JRS245P63	RT16-4
	0.63~1.00	JRS2451	RT16-4
	0.80~1.25	JRS2451P25	RT16-4
	1.00~1.60	JRS2451P6	RT16-4
	1.25~2.00	JRS2452	RT16-4
	1.60~2.50	JRS2452P5	RT16-6
	2.00~3.20	JRS2453P2	RT16-6
	2.50~4.00	JRS2454	RT16-6
	3.20~5.00	JRS2455	RT16-6
	4.00~6.30	JRS2456P3	RT16-10
	5.00~8.00	JRS2458	RT16-20
	6.30~10.0	JRS24510	RT16-20
	8.00~12.5	JRS24512P5	RT16-20
	10.0~16.0	JRS24516	RT16-25
	12.5~20.0	JRS24520	RT16-32
	16.0~25.0	JRS24525	RT16-32
	20.0~32.0	JRS24532	RT16-50
	25.0~36.0	JRS24536	RT16-50
	32.0~40.0	JRS24540	RT16-50
	36.0~45.0	JRS24545	RT16-63
63	0.10~0.16	JRS263P16F	RT16-4
	0.16~0.25	JRS263P25F	RT16-4
	0.25~0.40	JRS263P4F	RT16-4
	0.40~0.63	JRS263P63F	RT16-4
	0.63~1.00	JRS2631F	RT16-4
	0.80~1.25	JRS2631P25F	RT16-4
	1.00~1.60	JRS2631P6F	RT16-4
	1.25~2.00	JRS2632F	RT16-4
	1.60~2.5	JRS2632P5F	RT16-6
	2.00~3.20	JRS2633P2F	RT16-6
	2.50~4.00	JRS2634F	RT16-6
	3.20~5.00	JRS2635F	RT16-6
	4.00~6.30	JRS2636P3F	RT16-10
	5.00~8.00	JRS2638F	RT16-20
	6.30~10.0	JRS26310F	RT16-20
	8.00~12.5	JRS26312P5F	RT16-20
	10.0~16.0	JRS26316F	RT16-25
	12.5~20.0	JRS26320F	RT16-32
	16.0~25.0	JRS26325F	RT16-32
	20.0~32.0	JRS26332F	RT16-50
	25.0~40.0	JRS26340F	RT16-50
	32.0~45.0	JRS26345F	RT16-63
	40.0~57.0	JRS26357F	RT16-80
	50.0~63.0	JRS26363F	RT16-80

JRS2 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1







Frame size rated current(A)	Current setting(A)	Reference	Recommended fuse
80	12.5~20.0	JRS28020	RT16-32
	16.0~25.0	JRS28025	RT16-32
	20.0~32.0	JRS28032	RT16-50
	25.0~40.0	JRS28040	RT16-50
	32.0~50.0	JRS28050	RT16-63
	40.0~57.0	JRS28057	RT16-80
	50.0~63.0	JRS28063	RT16-80
	57.0~70.0	JRS28070	RT16-100
	63.0~80.0	JRS28080	RT16-100
	70.0~88.0	JRS28088	RT16-125
180	55~88	JRS218088F	RT16-125
	63~90	JRS218090F	RT16-125
	80~110	JRS2180110F	RT16-200
	90~120	JRS2180120F	RT16-200
	110~135	JRS2180135F	RT16-200
	120~150	JRS2180150F	RT16-200
	135~160	JRS2180160F	RT16-250
	150~180	JRS2180180F	RT16-250
400	80~125	JRS2400125F	RT16-200
	125~200	JRS2400200F	RT16-400
	160~250	JRS2400250F	RT16-400
	200~320	JRS2400320F	RT16-500
	250~400	JRS2400400F	RT16-500
630	320~500	JRS2630500F	RT16-630
	400~630	JRS2630630F	RT16-630

JRS2 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

Technical Data

Temperature compensation	-5℃~+40℃		
Trip class 10A	JRS2-12.5,25,32,45,63,80,180		
10	JRS2-400, 630		
Rated insulation voltage Ui V	660V		
Structure characteristics			
Overload protection	Yes		
Phase-failure protection	Yes		
Manual reset	Yes		
Automatic reset	Yes		
Stop button	Yes		
Test button	Yes		
Trip direction	Yes		
Tolerance on slope in any direction	±5°		
Auxiliary circuit			
Utilization category	AC-15		DC-13
Rated frequency Hz	50	50	50
Rated insulation voltage Ui V	380	380	500
Rated operational voltage Ue V	220	380	220
Rated operational current Ie A	1.64	0.95	0.16
Conventional free NO	5	5	5
NC	5	5	5

JRS2 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

Trip Characteristic

Sequence	Multiples of setting current	Trip time		Initial condition	Ambient temperature
		Trip class 10A	Trip class 10		
Limits of operation of relays when energized on all poles					
1	1.05	>2h	>2h	From cold state	+20℃
2	1.2	<2h	<2h	From hot state(immediately following sequence 1 test)	
3	1.5	＜2min	＜4min	From hot state(immediately following sequence 1 test)	
4	7.2	2s＜ Tp≤10s	4s＜ Tp≤10s	From cold state	+20℃

Limits of operation when energized on two poles						
	Any two poles	The third-pole				
1	1.0	0.9	>2h	>2h	From cold state	+20℃
2	1.15	0	<2h	<2h	From hot state(immediately following sequence 1 test)	

Accessories

	Thermal Overload Relay	Reference
	JRS1D-25	JRS1D25J
	JRS1D-36	JRS1D36J
	JRS1D-93	JRS1D93J

JRS2 Thermal Overload Relay

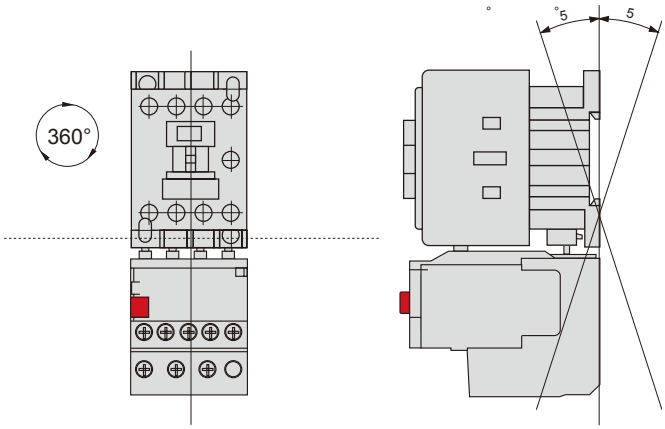
Standard: IEC 60947-4-1 IEC 60947-5-1

Work Conditions

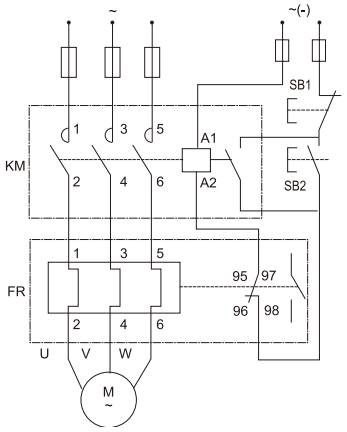
- Ambient temperature: -5℃~+40℃, daily average temperature ≤35℃
- Altitude: ≤2000m
- Humidity: The relative humidity of the installtion position shall not exceed 50% when the maximum temperature reaches +40℃. But there can be higher relative humidity under lower temperature. For example, it can reach 90% when temperature is at 20℃. Special measures should be taken against condensation occuring on product surface caused by temperature change
- Pollution class: 3

Installation Conditions

- Installation Type: III
- Installation position: Unobvious shake and impact shock is necessary. Vertically mounting. Tolerance on slope in any direction shall not exceed 5°



Wire Connection Picture



FU-Fuse
KM-Contactor
FR-Relay
SB1-Stop Button
SB2-Start Button

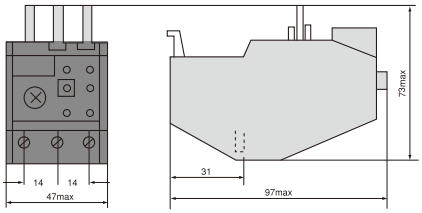
JRS2 Thermal Overload Relay

Standard: IEC 60947-4-1 IEC 60947-5-1

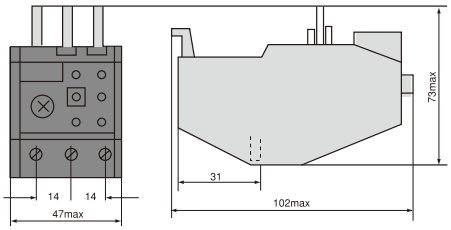
Overall Dimensions

Unit: mm

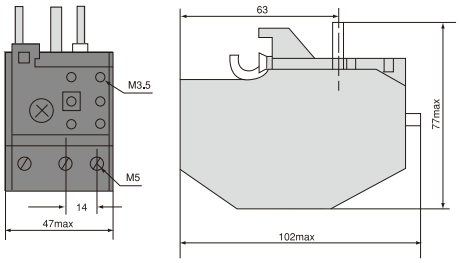
■ JRS2-12.5/Z



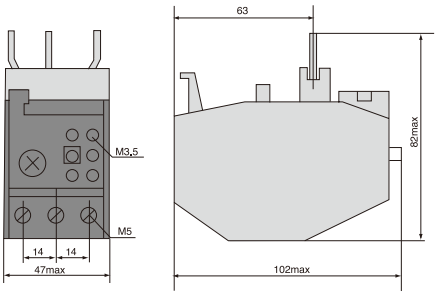
■ JRS2-25/Z



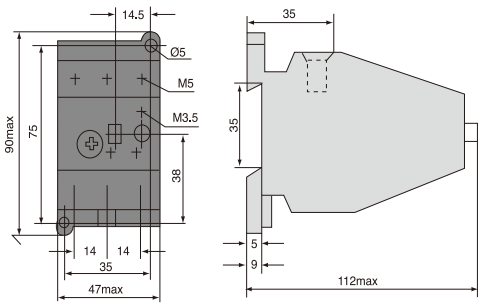
■ JRS2-32/Z



■ JRS2-45/Z



■ JRS2-63/F

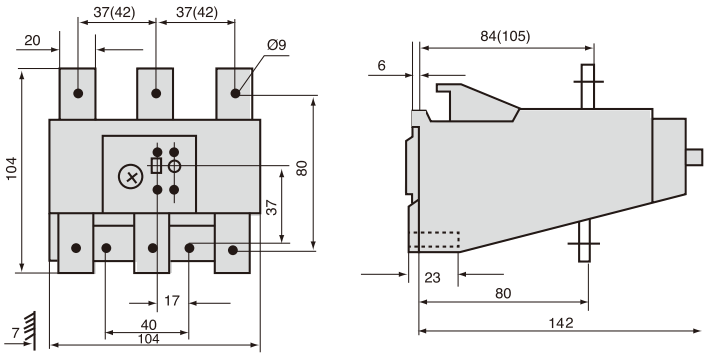


JRS2 Thermal Overload Relay

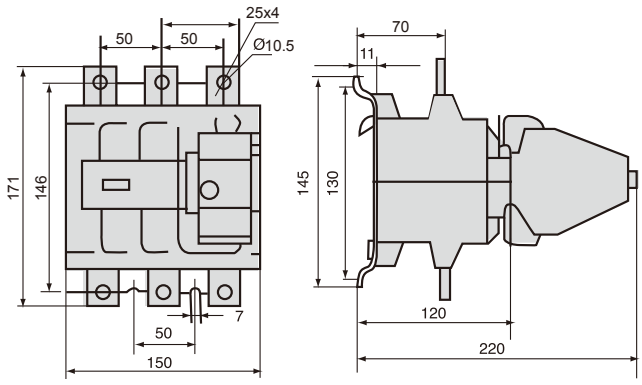
Standard: IEC 60947-4-1 IEC 60947-5-1

Overall Dimensions

■ JRS2-180/F



■ JRS2-400~630/F



CDC9 Switching Capacitor Contactor

Standard: IEC 60947-4-1 IEC 60947-5-1

Function

CDC9 switching capacitor contactors provide:

□ Switch three-phase unipolar or multipolar capacitor group,to improve their power factor

□ Reduce the current closing of the impact of capacitor





Order Information

Rate conventional thermal current`	Auxiliary contact		Reference
	NO	NC	
25	1	1	CDC92511∗ •
	2	0	CDC92520∗ •
	0	2	CDC92502∗ •
32	1	1	CDC93211∗ •
	2	0	CDC93220∗ •
	0	2	CDC93202∗ •
43	1	1	CDC94311∗ •
	2	0	CDC94320∗ •
	0	2	CDC94302∗ •
63	1	2	CDC96312∗ •
	2	1	CDC96321∗ •
95	1	2	CDC99512∗ •
	2	1	CDC99521∗ •

Reference Description

CDC9 9 10 ∗ •

- • Coil Frequency
- ∗ Coil Voltage
- 10 Auxiliary contact
- 9 Rate conventional thermal current
- CDC9 Model

■ Coil voltage code

coil voltage	36V	110V	127V	220V	380V	400V
∗	C	F	S	M	Q	V

■ Coil frequency code

coil frequency	50Hz	60Hz
•	5	6

CDC9 Switching Capacitor Contactor

Standard: IEC 60947-4-1 IEC 60947-5-1

Technical Data

Model			CDC9-25	CDC9-32	CDC9-43	CDC9-63	CDC9-95
Main circuit							
Rated operational voltage		V	400				400
Rated insulation voltage		V	500				
Controlled capacitor rate capacity	400V, AC-6b	A	17	23	29	43	63
Controlled capacitor rate capacity	230V, AC-6b	Kvar	6	9	10	15	22.5
	400V, AC-6b	Kvar	12	18	20	30	45
Rate conventional thermal current		A	25	32	43	63	95
Control inrush current capacity			≤20In				
Mechanical life		$\times 10^4$ operations	100				
Electric life	400V, AC-6b	$\times 10^4$ operations	10				
Operating frequency	400V, AC-6b	operations/h	300				120
Cable connection cross section of copper conductor		mm^2	4				
Coil							
Coil voltage(Us)		V	AC36, 110, 127, 220, 380,400				
Operational voltage		V	85%~110%Us				
Drop-out voltage		V	20%~75%Us				
Auxiliary contact							
Rate conventional thermal current		A	10				
Minimum load can be connected			6V×10mA				

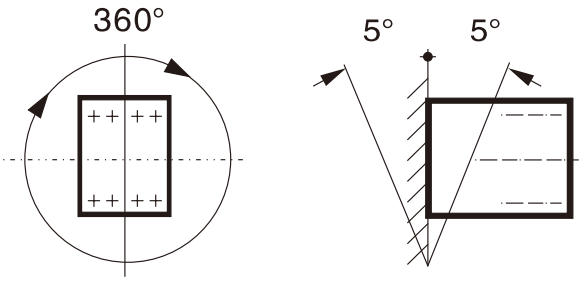
CDC9 Switching Capacitor Contactor

Standard: IEC 60947-4-1 IEC 60947-5-1

Working Conditions

- Ambient temperature:-5℃～+40℃, the daily average temperature ≤ 35℃
- Altitude: ≤ 2000 m
- Humidity: Maximum temperature is +40℃, air relative humidity of not more than 50%, at a lower temperature allows a higher relative humidity. For example, 20℃, when up to 90%, and occasionally due to temperature changes resulting from Gel should take special measures
- Pollution Level: 3
- Installation Type: III
- Installation position: should be installed in the absence of a significant shake and shock and vibration place

Install Location



CDCK8 Air Condition Contactor

Standard: IEC 60947-4-1 IEC 60947-5-1

Function

CDCK8 air condition contactor provide:

- Remote make & break of circuits
- Frequent start and stop of motors





Order Information

Rated current(A)	Pole	Auxiliary contact		Reference
		NO	NC	
25	1P	0	1	CDCK825101∗ •
		0	0	CDCK825100∗ •
32	1P	0	1	CDCK832101∗ •
		0	0	CDCK832100∗ •
45	1P	0	0	CDCK845100∗ •
25	2P	0	0	CDCK825200∗ •
32	2P	0	0	CDCK832200∗ •

Reference Description

CDCK8 25 1 10 ∗ •

- • Coil Frequency
- ∗ Coil Voltage
- 10 Auxiliary contact
- 1 Pole
- 25 Rate current
- CDCK8 Model

■ Coil voltage code

Coil voltage	36V	110V	220V
∗	C	F	M

■ Coil frequency code

Coil frequency	50Hz	60Hz
•	5	6

CDCK8 Air Condition Contactor

Standard: IEC 60947-4-1 IEC 60947-5-1

Technical Data

Model			CDCK8-25	CDCK8-32	CDCK8-45
Main circuit characteristics					
Rate insulation voltage		V	690		
Rated voltage shock tolerance		kV	4		
Rated operational voltage		V	230		
Rate conventional thermal current		A	32	40	50
Rate operational current	AC-8b	A	25	32	45
Power of controlled single-phase motor	230V, AC-8b	kW(Hp)	2.5(3)	3.2(4)	4.5(5)
Mechanical life		$x10^4$ operations	100		
Electric life	AC-8b	$x10^4$ operations	8		
Operating frequency	AC-8b	operations/h	300		
Short time withstand current	10S	A	8Ie		
Matched fuse			RT16-40	RT16-50	RT16-63
Connecting line		mm^2	6	10	16
Coil					
Coil voltage(Us)		V	AC36, 110, 220		
Operational voltage		V	70%~110%Us		
Drop-out voltage		V	20%~60%Us		
Inrush		VA	36		
Sealed		VA	4		
Auxiliary contact					
Rate conventional thermal current		A	5		
Rated operational voltage V		V	230		
Control capability	AC-1	VA	100		

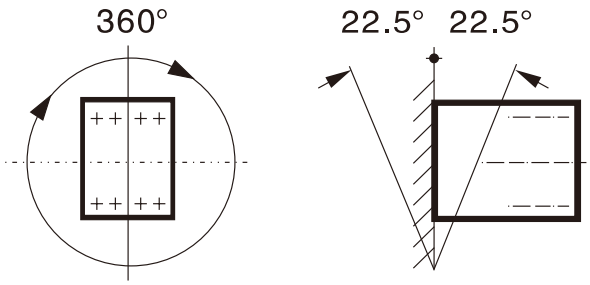
CDCK8 Air Condition Contactor

Standard: IEC 60947-4-1 IEC 60947-5-1

Working Conditions

- Ambient temperature:-5℃～+40℃, the daily average temperature ≤ 35℃
- Altitude: ≤ 2000 m
- Humidity: Maximum temperature is +40℃, air relative humidity of not more than 50%, at a lower temperature allows a higher relative humidity. For example, 20℃, when up to 90%, and occasionally due to temperature changes resulting from Gel should take special measures
- Pollution Level: 3
- Installation Type: III
- Installation position: should be installed in the absence of a significant shake and shock and vibration place

Install Location

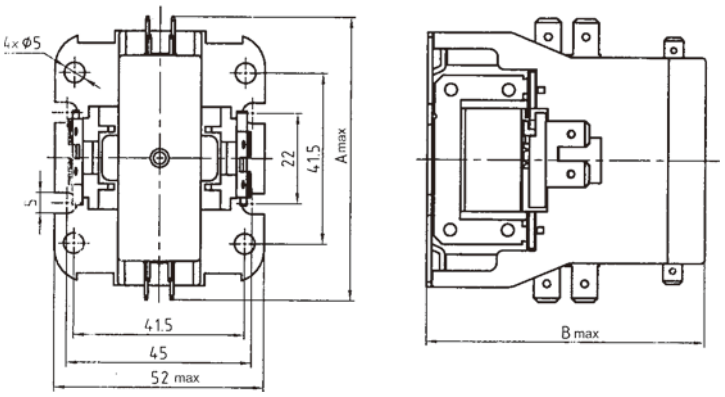


CDCK8 Air Condition Contactor

Standard: IEC 60947-4-1 IEC 60947-5-1

Overall Dimensions

Unit:mm



Product type	Pole	Amax	Bmax
CDCK8-25, 32	1P	70	62
CDCK8-25/01, 32/01	1P	70	69
CDCK8-25, 32	2P	86	61.5
CDCK8-45	1P	85	67

CDZ6 Contactor Relay

Standard: IEC 60947-5-1



Order Information

Product Name	Contact	Coil Voltage	Coil Power Type
CDZ6	32	M	
	32:3NO+NC 41:4NO+1NC	B:24V … X:440V	Default:50HZ 7:50/60HZ

Contact Form		Reference
4	1	CDZ6 41 □□
3	2	CDZ6 32 □□

Code Table of Coil Voltage

Coil Voltage (V)	24	36	48	110	127	220	380	415	440
50HZ	B	C	E	F	S	M	Q	L	X
50/60HZ	B7	-	E7	F7	-	M7	Q7	-	-

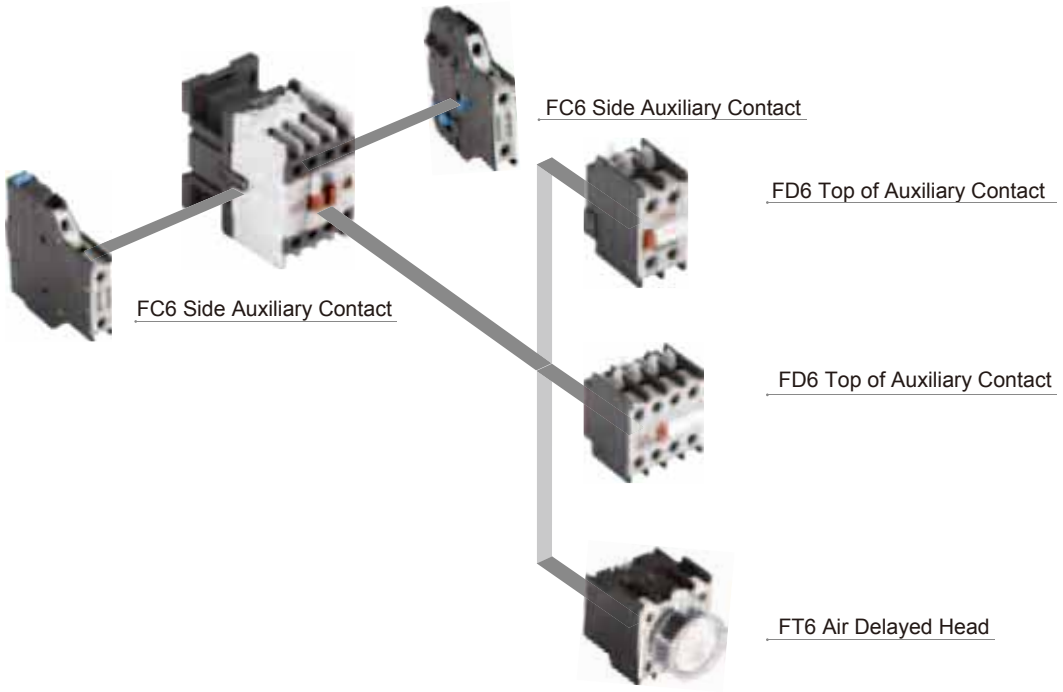
CDZ6 Contactor Relay

Standard: IEC 60947-5-1

Main Technical Parameter

Type		CDZ6-41	CDZ6-32
Contact		4NO+1NC	3NO+2NC
AC-15	Rated Operational Voltage	AC230V	AC400V
	Rated Operational Current	1.6A	0.95A
DC-13	Rated Operational Voltage	DC125V	DC220V
	Rated Operational Current	0.55A	0.27A
Rated Insulation Voltage		690V	
Rated Thermal Current		10A	
Mechanic Durabilities		10 Million Times	
Electric Durabilities		1 Million Times	
Control Circuit Voltage (Us)	50Hz	24V 36V 48V 110V 127V 220V 380V 415V 440V	
	50/60Hz	24V 48V 110V 220V 380V	
Operational Voltage Range		85%~110% Us	
Drop-out Voltage Range		20%~75% Us	
Wiring Ability		≤2.5(X2) m m²	

Diagram for Accessory Installation



Note: the accessories of CDZ6 are in common use with CDC6,
and please refer to P130 for more information about the accessories.

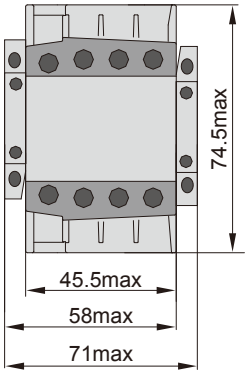
CDZ6 Contactor Relay

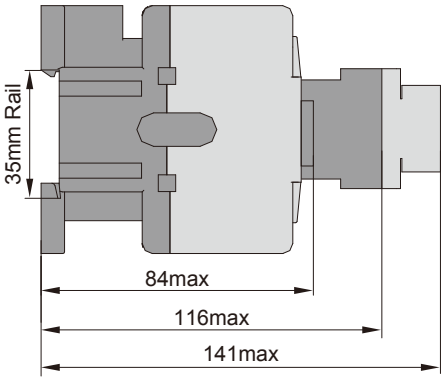
Standard: IEC 60947-5-1

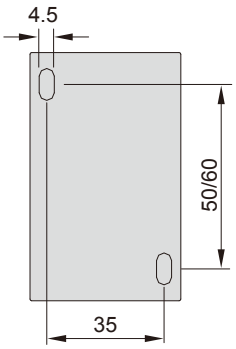
Overall Dimension of Installation

Environmental Requirements

- Ambient Temperature:-5°C~+40°C
- Altitude: ≤ 2000m
- Pollution Level: III
- No obvious shaking and shock vibration

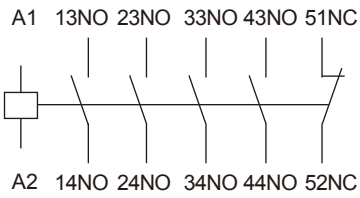




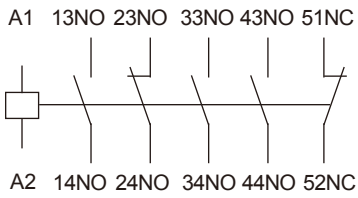


Wiring Diagram

CDZ6-41



CDZ6-32



CDZ8 Miniature Relay

Function

- Used to implement the conversion of intermediate control signals and low-power output, In the field of industrial control, used in conjunction with contactors, relays, circuit breakers, etc.





Order Information

Poles	Rated Current	LED	Voltage Type	Reference
2	5A	L	AC	CDZ8052L∗1
		None	AC	CDZ8052∗1
		L	DC	CDZ8052L∗Z1
		None	DC	CDZ8052∗Z1
Accessory				CDZ8PYF08AXXKH
3	5A	L	AC	CDZ8053L∗1
		None	AC	CDZ8053∗1
		L	DC	CDZ8053L∗Z1
		None	DC	CDZ8053∗Z1
Accessroy				CDZ8PYF11AXXKH
4	3A	L	AC	CDZ8034L∗1
		None	AC	CDZ8034∗1
		L	DC	CDZ8034L∗Z1
		None	DC	CDZ8034∗Z1
Accessory				CDZ8PYF14AXXKH

Rated voltage code

Rated voltage	6V	12V	24V	36V	48V	110V	127V	220V	230V
*	I	J	B	C	E	F	S	M	N

CDZ8 Miniature Relay

Technical Data

Contact	Form	2Z	3Z	4Z
	Capacity	5A	5A	3A
	Nominal coil voltage	AC 6-220V DC 6-220V		
	Resistance	≤50mΩ		
	Materials	Silver Alloy		
	Electrical life expectancy	$\geqslant 10^5$ times (1800 Ops/h)		
	Mechanical life expectancy	$\geqslant 10^7$ times (18000 Ops/h)		
Type Description		LED		
Operating voltage (25℃)		DC:≤ 75%Ue, AC:80%Ue		
Release voltage (25℃)		DC:≥10%Ue, AC:30%Ue		
Maximum voltage (25℃)		110%Ue		
Coil consumption	DC(W)	0.9		
	AC(VA)	1.2		
Operating time (Rated voltage)		≤20ms		
Release time (Rated voltage)		≤20ms		
Dielectric Strength	Between contacts	1300VAC/1min		
	Between contacts(different pole)	1500VAC/1min		
	Between Contact and coil	1800VAC/1min		
Ambient temperature		-25～+55℃		
Humidity		35%～85%RH		
Atmospheric pressure		86～106KPa		
Shock resistance		10G（Sine half-wave pulse：11ms)		
Vibration resistance		10～55Hz Double amplitude:1.0mm		
Install model		Plug-in terminals		
Weight		35g		

Coil Specifications (25℃)

Rated voltage V.DC	6	12	24	36	48	110	220	
Coil resistance Ω (±10%)	40	160	600	1440	2600	11000	42000	
Rated voltage V.AC	6	12	24	36	48	110	127	220
Coil resistance Ω (±10%)	11.5	40	160	370	600	3750	4100	14000

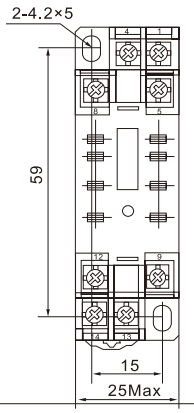
Accessories

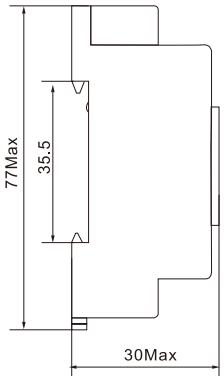


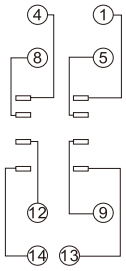


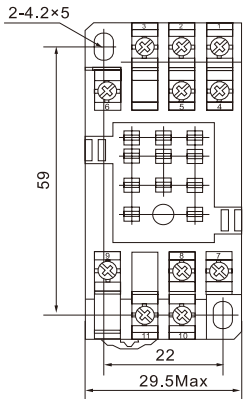
Matched relay socket

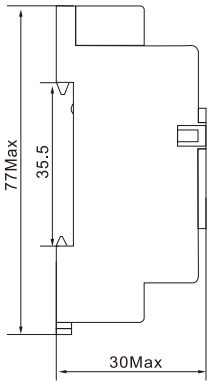
	Outline dimensions(mm)	Mount dimensions	Wiring diagram
2Z	■ CDZ8PYF08AXXKH		
3Z	■ CDZ8PYF11AXXKH		
4Z	■ CDZ8PYF14AXXKH		

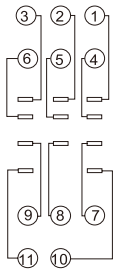


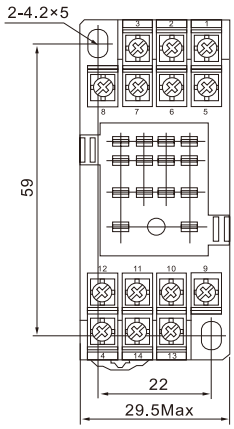


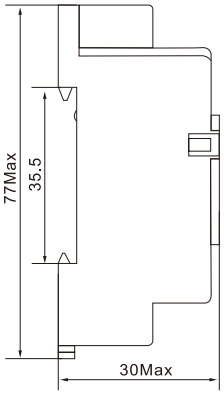


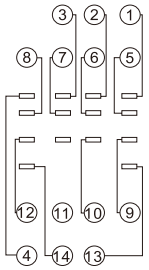












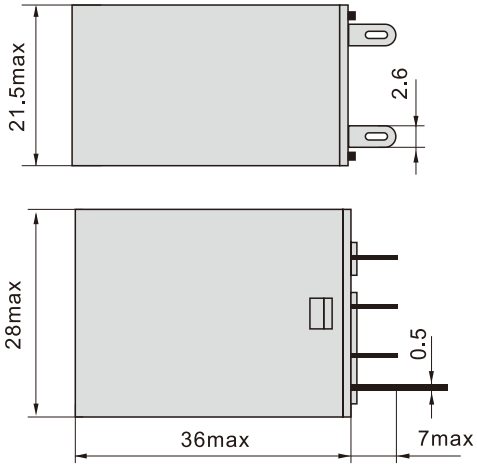
CDZ8 Miniature Relay

Overall Dimensions

Unit: mm

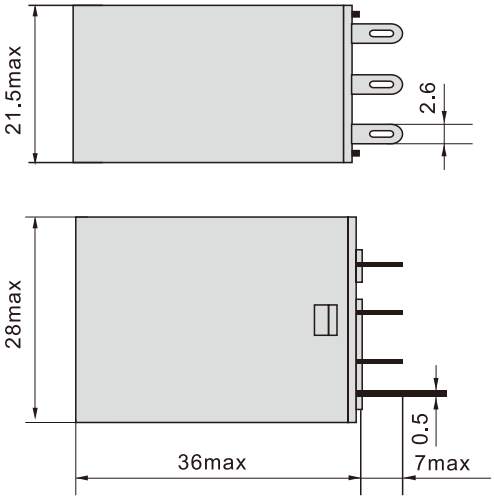
■ CDZ8-2Z



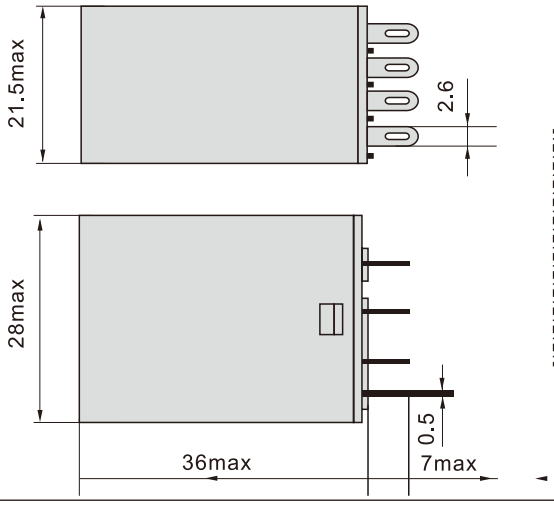


■ CDZ8-3Z





■ CDZ8-4Z



JSZ3 Series Electronic Time Relay

Standard: IEC 60947-5-1

Function

JSZ3 Series eletroms time relay provide

- Rated AC frequency 50Hz & controlling voltage 400V or below.
- Be used as time-control component in the automatic controlling circuit, according to the scheduled time turn on or off the circuit.



Order Information

Relay mode	Rated working voltage	Relay time	Reference
Relay after power-on	120V	A: 0.05-0.5s/5s/30s/3M	JSZ3AA120
		B: 0.1-1s/10s/60s/6M	JSZ3AB120
		C: 0.5-5s/50s/5M/30M	JSZ3AC120
		D: 1-10s/100s/10M/60M	JSZ3AD120
		E: 6s-60s/10M/60M/6h	JSZ3AE120
		F: 0.2M-2M/20M/2h/12h	JSZ3AF120
		G: 0.4M-4M/40M/4h/24h	JSZ3AG120
	240V	A: 0.05-0.5s/5s/30s/3M	JSZ3AA240
		B: 0.1-1s/10s/60s/6M	JSZ3AB240
		C: 0.5-5s/50s/5M/30M	JSZ3AC240
		D: 1-10s/100s/10M/60M	JSZ3AD240
		E: 6s-60s/10M/60M/6h	JSZ3AE240
		F: 0.2M-2M/20M/2h/12h	JSZ3AF240
		G: 0.4M-4M/40M/4h/24h	JSZ3AG240
	400V	A: 0.05-0.5s/5s/30s/3M	JSZ3AA400
		B: 0.1-1s/10s/60s/6M	JSZ3AB400
		C: 0.5-5s/50s/5M/30M	JSZ3AC400
		D: 1-10s/100s/10M/60M	JSZ3AD400
		E: 6s-60s/10M/60M/6h	JSZ3AE400
		F: 0.2M-2M/20M/2h/12h	JSZ3AF400
		G: 0.4M-4M/40M/4h/24h	JSZ3AG400

JSZ3 Series Electronic Time Relay

Standard: IEC 60947-5-1

Order Information

Relay mode	Rated working voltage	Relay time	Reference
Relay after power-off	120V	1S: 0.1-1s	JSZ3F1S120
		2S: 0.2-2s	JSZ3F2S120
		3S: 0.3s-3s	JSZ3F3S120
		5S: 0.5s-5s	JSZ3F5S120
		6S: 0.6s-6s	JSZ3F6S120
		10S: 1s-10s	JSZ3F10S120
		20S: 2s-20s	JSZ3F20S120
		30S: 3s-30s	JSZ3F30S120
		60S: 6s-60s	JSZ3F60S120
		100S: 10s-100s	JSZ3F100S120
		180S: 18s-180s	JSZ3F180S120
		4M: 0.4min-4min	JSZ3F4M120
		5M: 0.5min-5min	JSZ3F5M120
		6M: 0.6min-6min	JSZ3F6M120
		10M: 1min-10min	JSZ3F10M120
		20M: 2min-20min	JSZ3F20M120
		30M: 3min-30min	JSZ3F30M120
	240V	1S: 0.1-1s	JSZ3F1S240
		2S: 0.2-2s	JSZ3F2S240
		3S: 0.3s-3s	JSZ3F3S240
		5S: 0.5s-5s	JSZ3F5S240
		6S: 0.6s-6s	JSZ3F6S240
		10S: 1s-10s	JSZ3F10S240
		20S: 2s-20s	JSZ3F20S240
		30S: 3s-30s	JSZ3F30S240
		60S: 6s-60s	JSZ3F60S240
		100S: 10s-100s	JSZ3F100S240
		180S: 18s-180s	JSZ3F180S240
		4M: 0.4min-4min	JSZ3F4M240
		5M: 0.5min-5min	JSZ3F5M240
		6M: 0.6min-6min	JSZ3F6M240
		10M: 1min-10min	JSZ3F10M240
		20M: 2min-20min	JSZ3F20M240
		30M: 3min-30min	JSZ3F30M240
	400V	1S: 0.1-1s	JSZ3F1S400
		2S: 0.2-2s	JSZ3F2S400
		3S: 0.3s-3s	JSZ3F3S400
		5S: 0.5s-5s	JSZ3F5S400
		6S: 0.6s-6s	JSZ3F6S400
		10S: 1s-10s	JSZ3F10S400
		20S: 2s-20s	JSZ3F20S400
		30S: 3s-30s	JSZ3F30S400
		60S: 6s-60s	JSZ3F60S400
		100S: 10s-100s	JSZ3F100S400
		180S: 18s-180s	JSZ3F180S400
		4M: 0.4min-4min	JSZ3F4M400
		5M: 0.5min-5min	JSZ3F5M400
		6M: 0.6min-6min	JSZ3F6M400
		10M: 1min-10min	JSZ3F10M400
		20M: 2min-20min	JSZ3F20M400
		30M: 3min-30min	JSZ3F30M400

JSZ3 Series Electronic Time Relay

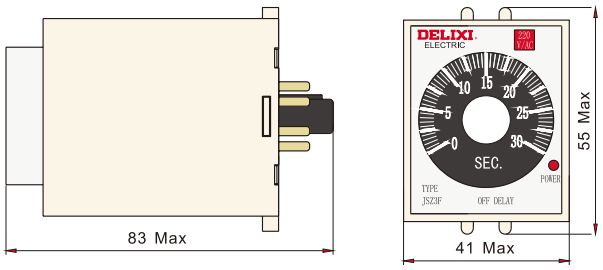
Standard: IEC 60947-5-1

Technical Data

Condition	AC-15	400V/1.95A; 240V/1.5A; 120V/3.0A
	DC-13	250V/0.27A; 125V/0.55A
Repetitive error		≤5%
Rated themal current		5A
Mechanical life		≥1×10^{6} times
Electric life		≥1×10^{5} times
Power loss		≤3W
Working mode		A: Relay after power-on F:Relay after power-off
Reset mode		A:Power-off reset F:External device reset
Contactor endurance		A:5A (Resistive) F:1A（Resistive）
Relay time		JSZ3A: 0.05s-0.5s/5s/30s/3M, 0.1s-1s/10s/60s/6M 0.5s-5s/50s/5M/30M, 1s-10s/100s/10M/60M 6s-60s/10M/60M/6h, 0.2M-2M/20M/2h/12h 0.4M-4M/40M/4h/24h JSZ3F: 0.1s-1s, 0.2s-2s, 0.3s-3s, 0.5s-5s, 0.6s-6s, 1s-10s, 2s-20s, 3s-30s, 6s-60s, 10s-100s, 10s-120s, 10s-180s, 0.4M-4M, 0.5M-5M, 0.6M-6M, 1M-10M, 2M-20M, 3M-30M
Temp.		-5℃～+40℃
Install mode		Install mounted, Din rail mounted, Panel mounted

Overall Dimensions

Unit: mm



XJ9 Phase Failure And Sequence Protection Relay

Standard: IEC 60947-5-1

Function

XJ9 phace failare and sequence proctection relay provide:

- ☐ Rated AC frequency of 50Hz, rated control supply voltage AC 400V.
- ☐ Phase failure and phase sequence protector.



Order Information

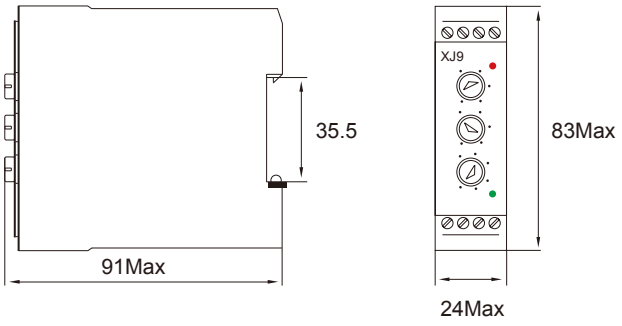
Function	Voltage	Reference
Phase failure	380V	XJ9380
sequency protection	400V	XJ9400

Technical Data

Standard	IEC 60947-5-1
Overvoltage protection	400-480V(adjustable), Reaction time: 1.5-4S(adjustable)
Undervoltage protection	320-400V(adjustabe). Reaction time: 2-9S(adjustable)
Phase failure & phase Wrong protect time	Reaction time ≤2S
Contactor mode	1 NO, 1NC
Contactor endurance	5A Resistive
Power voltage	AC 400V
Mechanical lifetime	$\geqslant 1\times10^{6}$ times
Electrical lifetime	$\geqslant 1\times10^{5}$ times
Power loss	≤1W
Contactor capacity	AC400V×3

Overall Dimensions

Unit: mm



CDTL17 Impulse Relays

Standard: IEC 60947-4

Function

Impulse relays are used for control by pushbuttons of lighting circuits:

- ☐ Incandescent lamps, low voltage halogen lamps,etc.(resistive loads)
- ☐ Fluorescent tubes, discharge lamps,etc.(inductive loads)



Order Information

Poles	Rated Current(A)	Coil Voltage(V)	Coil Frequency(Hz)	Reference
1P	16	230	50	CDTL1716N5

Technical data

Rated Voltage	250V
Inrush power	11VA
Impulse duration	50ms
Maximum switching frequency	5 switching operations/minute
Electrical durability	50,000 cycles
Operating temperature	-5°C to +40°C

CDP17Z Motor protector

Standards: IEC 60947-1 IEC 60947-2 and IEC 60947-4-1

CE

Ordering Information

Product Name	Frame Current	Setting Current
CDP17Z	32	P16
	32:32A 80:80A	P16:0.1~0.16A … 80:56-80A





Frame Current (A)	Setting Current (A)	Order Code
32	0.10 ~ 0.16	CDP17Z32P16
	0.16 ~ 0.25	CDP17Z32P25
	0.25 ~ 0.40	CDP17Z32P4
	0.40 ~ 0.63	CDP17Z32P63
	0.63 ~ 1.00	CDP17Z321
	1.00 ~ 1.60	CDP17Z321P6
	1.60 ~ 2.50	CDP17Z322P5
	2.50 ~ 4.00	CDP17Z324
	4.00 ~ 6.30	CDP17Z326P3
	6.00 ~ 10.0	CDP17Z3210
	9.00 ~ 14.0	CDP17Z3214
	13.0 ~ 18.0	CDP17Z3218
	17.0 ~ 23.0	CDP17Z3223
	20.0 ~ 25.0	CDP17Z3225
	24.0 ~ 32.0	CDP17Z3232
80	25.0 ~ 40.0	CDP17Z8040
	40.0 ~ 63.0	CDP17Z8063
	63.0 ~ 80.0	CDP17Z8080

CDP17Z Motor protector

Standards: IEC 60947-1 IEC 60947-2 and IEC 60947-4-1

CE

Technical Parameter

Technical Parameter									
Rated Isolation Voltage Ui V		690							
Rated Operational Voltage Ue V		230/240, 400/415, 440, 500, 690							
Rated Impulse Withstand Voltage Uimp V		6000							
Rated Frequency Hz		50/60							
Applicable Category		AC - 3A							
Operation Mode		Button Type							
Trip Class		10A							
Electrical Durability Times		100000							
Mechanical Durability Times		100000							
Flash-Over Distance mm		≥40							
Accessories		Under-Voltage Release, Shunt Release, Instantaneous Auxiliary Contact (Side and Face-up Installation)							
Rated Current	In A	0.16	0.25	0.4	0.63	1	1.6	2.5	4
Setting Current	A	0.10-0.16	0.16-0.25	0.25-0.40	0.40-0.63	0.63-1.00	1.00-1.60	1.60-2.50	2.50-4.00
Rated Operating Power KW Class AC-3 50/60 HZ	400V	-	-	-	-	-	0.37	0.75	1.5
	690V	-	-	-	0.37	0.55	1.1	1.5	3
Breaking Capacity KA	400V Icu	100	100	100	100	100	100	100	100
	400V Ics	100	100	100	100	100	100	100	100
	690V Icu	100	100	100	100	100	100	3	3
	690V Ics	100	100	100	100	100	100	2.25	2.25

Technical Parameter										
Rated Isolation Voltage Ui V		690								
Rated Operational Voltage Ue V		230/240, 400/415, 440, 500, 690								
Rated Impulse Withstand Voltage Uimp V		6000								
Rated Frequency Hz		50/60								
Applicable Category		AC - 3A								
Operation Mode		Button Type								
Trip Class		10A								
Electrical Durability Times		100000								
Mechanical Durability Times		100000								
Flash-Over Distance mm		≥40								
Accessories		Under-Voltage Release, Shunt Release, Instantaneous Auxiliary Contact (Side and Face-up Installation)								
Rated Current	In A	6.3	10	14	18	23	25	32	40	63	80
Setting Current	A	4.00-6.30	6.00-10.0	9.00-14.0	13.0-18.0	17.0-23.0	20.0-25.0	24.0-32.0	25.0-40.0	40.0-63.0	56.0-80.0
Rated Operating Power KW Class AC-3 50/60 HZ	400V	2.2	4	5.5	7.5	11	11	15	16	20	25
	690V	4	7.5	9	11	15	18.5	23	18.5	30	40
Breaking Capacity KA	400V Icu	100	100	15	15	15	15	10	30	30	35
	400V Ics	100	100	7.5	7.5	6	6	5	15	15	17.5
	690V Icu	3	3	3	3	3	3	3	5	6	8
	690V Ics	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	3	4

Note: Ics means the breaking capacity of rated short circuit operation; Icu means the breaking capacity of rated short circuit operation and rated limited short circuit.

CDP17Z Motor protector

Standards: IEC 60947-1 IEC 60947-2 and IEC 60947-4-1

CE



Product Features

CDP17Z-32 Motor protector is applicable for the circuits with AC 50/60HZ, Rated Voltage to 690V and Rated Current of 0.1-32A and used for overload, phase failure, short circuit protection and non-frequent start control of three-phase squirrel-cage asynchronous motor, and also can be used for distribution line protection and non-frequent load transfer and adopted as isolator.

Applicable Standards: IEC60947-1\IEC60947-2\IEC60947-4-1

Operating Characteristics

No.	Multiple of Setting Current	Operating Time		Starting Conditions	Environmental Temperature
Operating Characteristics for Load Balance of the Phases					
1	1.05	Without operation within 2h		Cold State	+20℃ ± 2℃
2	1.2	Operation within 2h		Hot State (After No.1 Test)	
3	1.5	Operation within 2min		Hot State (After No.1 Test)	
4	7.2	Operation at 2s<Tp≤10s		Cold State	
Operating Characteristics for Phase Load Unbalance (Phase Failure)					
	Any 2-Phase	3rd Phase			
1	1	0.9	Without operation within 2h	Cold State	+20℃ ± 2℃
2	1.15	0	Operation within 2h	Hot State (After No.1 Test)	

Setting Current A	0.10 ~ 0.16	0.16 ~ 0.25	0.25 ~ 0.40	0.40 ~ 0.63	0.63 ~ 1.00	1.00 ~ 1.60
Instantaneous Electromagnetic Tripping Current Setting Value Ir A	1.92	3	4.8	7.56	12	19.2
Setting Current A	1.60 ~ 2.50	2.50 ~ 4.00	4.00 ~ 6.30	6.00 ~ 10.0	9.00 ~ 14.0	13.0 ~ 18.0
Instantaneous Electromagnetic Tripping Current Setting Value Ir A	30	48	75.6	120	168	216
Setting Current A	17.0 ~ 23.0	20.0 ~ 25.0	24.0 ~ 32.0	25.0 ~ 40.0	40.0 ~ 63.0	56.0 ~ 80.0
Instantaneous Electromagnetic Tripping Current Setting Value Ir A	276	300	384	480	756	960

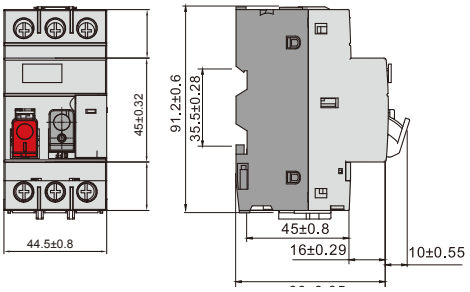
CDP17Z Motor protector

Standards: IEC 60947-1 IEC 60947-2 and IEC 60947-4-1

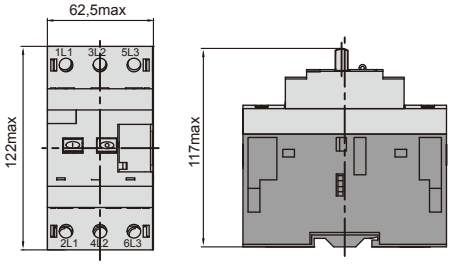
CE

Installation Dimensions

CDP17Z-32



CDP17Z-80











Accessories

Name		Type	Specification	Reference
Under-voltage Release		AU (32AF)	110 ~ 127V	CDP17Z32AU110
			220 ~ 240V	CDP17Z32AU220
			380 ~ 415V	CDP17Z32AU380
Shunt Release		AS (32AF)	110 ~ 127V	CDP17Z32AU110
			220 ~ 240V	CDP17Z32AU220
			380 ~ 415V	CDP17Z32AU380
Instantaneous Auxiliary Contact	Face-Up Installation	AE (32AF)	2NO	CDP17Z32AE20
			1NC+1NO	CDP17Z32AE11
	Side Installation	AN (32AF)	2NO	CDP17Z32AE20
			1NC+1NO	CDP17Z32AE11
		A (80AF)	1NC+1NO	CDP17Z80A01
			2NO	CDP17Z80A02

Basic Parameters of Instantaneous Auxiliary Contact					
Name	Rated Isolation Voltage Ui	Applicable Type	Rated Operational Voltage	Rated Operational Current	Conventional thermal current
Face-Up Installed Auxiliary Contact AE	250V	AC-15	24V	2A	2.5A
			48V	1.25A	2.5A
			110	1A	2.5A
			230V	0.5A	2.5A
		DC-13	24V	1A	2.5A
			48V	0.3A	2.5A
Side Installed Auxiliary Contact AN	690V	AC-15	48V	6A	6A
			110V	4.5A	6A
			230V	3.3A	6A
			380V	2.2A	6A
		DC-13	24V	6A	6A
			48V	5A	6A
			220V	0.5A	6A

CDP17Z Motor protector

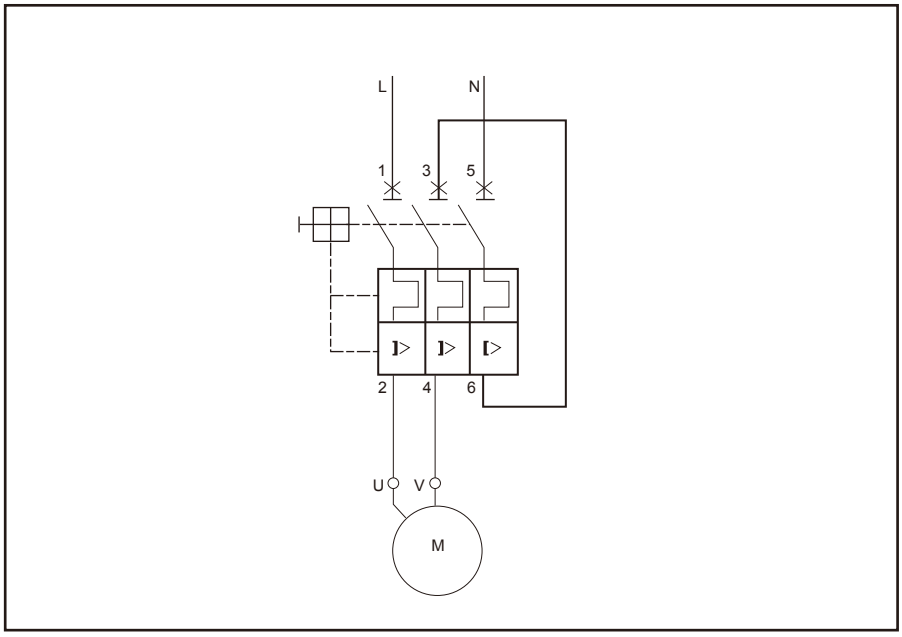
Standards: IEC 60947-1 IEC 60947-2 and IEC 60947-4-1

CE

Working and Installation Conditions

Altitude: ≤ 2000m;
Ambient temperature: -5℃~+40℃, the daily average temperature ≤ +35℃
Relative Humidity: Maximum temperature is +40℃, air relative humidity not more than 50%, it is allowed to have relative higher temperature under lower temperature , for considering the dew in the product surface formed by the changes of the temperature , special measures shall be adopted.
Pollution Level: III
Installation Class: III
Installation Position: the inclination between the installation surface and vertical surface is not more than 5°and there is no obvious shock and vibration.

Wiring Diagram



CDS2 Magnetic Starter

Standard: IEC 60947-4



Order information

Name of Product	Frame size rated current	Control Method	Setting Current
CDS2	13	B	1P6
	13: 13A 25: 25A 95: 95A	B: With button	1P6:1-1.6A … 93:80-93 A

Remark: P means decimal point

Frame size rated current (A)	Setting Current (A)	Order No. With Button
13	1-1.6	CDS213B1P6 □□
	1.6-2.5	CDS213B2P5 □□
	2.5-4	CDS213B04 □□
	4-6	CDS213B06 □□
	5.5-8	CDS213B08 □□
	7-10	CDS213B10 □□
	9-13	CDS213B13 □□
25	12-18	CDS225B18 □□
	17-25	CDS225B25 □□
95	23-32	CDS295B32 □□
	30-40	CDS295B40 □□
	37-50	CDS295B50 □□
	48-65	CDS295B65 □□
	63-80	CDS295B80 □□
	80-93	CDS295B93 □□

Note: “ □□ ” means coil voltage code.

Code Table of Coil Voltage

Coil Voltage (V)	36	110	127	220	230	380	400
50Hz	C	F	S	M	N	Q	V
50/60HZ	-	-	-	M7	N7	Q7	V7

Applicable Scope

CDS2 Series of Magnetic Starter (hereinafter referred to as “Starter”) is mainly used for control AC 50Hz (or 50/60Hz) and maximum rated working voltage up to 660V, as well as direct start and stop of three-phase squirrel cage induction motor with maximum rated working current up to 93A under using type of AC-3, and providing overloading protection against the motor.

CDS2 Magnetic Starter

Standard: IEC 60947-4

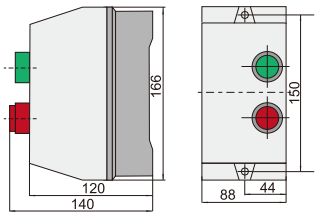


Technical parameter

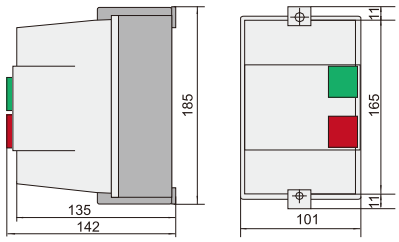
Type	Setting Current (A)	Controllable Max Power of Motor (KW) 380V	Option Type	
			AC Contactor Type	Thermal Overload Relay Type
CDS2-13	1-1.6	0.37	CJX2-09	JRS1D-25
	1.6-2.5	0.75	CJX2-09	JRS1D-25
	2.5-4	1.5	CJX2-09	JRS1D-25
	4-6	2.2	CJX2-09	JRS1D-25
	5.5-8	3	CJX2-09	JRS1D-25
	7-10	4	CJX2-09	JRS1D-25
	9-13	5.5	CJX2-18	JRS1D-25
CDS2-25	12-18	7.5	CJX2-25	JRS1D-25
	17-25	11	CJX2-25	JRS1D-25
CDS2-95	23-32	15	CJX2-40	JRS1D-93
	30-40	18.5	CJX2-40	JRS1D-93
	37-50	22	CJX2-50	JRS1D-93
	48-65	30	CJX2-65	JRS1D-93
	63-80	37	CJX2-80	JRS1D-93
	80-93	45	CJX2-95	JRS1D-93

Overall Dimension of Installation (mm)

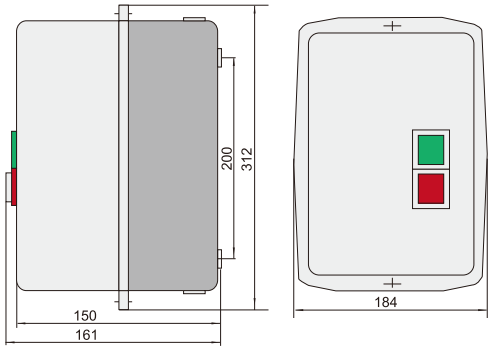
CDS2-13



CDS2-25



CDS2-95



LMK Series Current Transformer

Standard: IEC 60044-1

Function

LMK Series Current Transformer provide:
□Measuring and transforming the high current to low current.







Order Information

Class: 0.5
Maximum Voltage: 0.66KV

Model	Current ratio (A)	Rated Load (VA)	Bar (mm)	Diameter (mm)	Number of Turns through the core	Reference
LMK-0.66-30	30/5	5-3.75		20	5	LMKP63030
	50/5	5-3.75		20	3	LMKP65030
	75/5	5-3.75		20	2	LMKP67530
	100/5	5-3.75		20	1	LMKP610030Z
	100/5	5-3.75		20	2	LMKP610030
	150/5	5-3.75		20	1	LMKP615030
	200/5	5-3.75	30×10	20	1	LMKP620030
	250/5	5-3.75	30×10	20	1	LMKP625030
	300/5	5-3.75	30×10	20	1	LMKP630030
LMK-0.66-40	250/5	5-3.75	40×10	30	1	LMKP625040
	300/5	5-3.75	40×10	30	1	LMKP630040
	400/5	5-3.75	40×10	30	1	LMKP640040
	500/5	5-3.75	40×10	30	1	LMKP650040
LMK-0.66-50	300/5	5-3.75	50×10	35	1	LMKP630050
	400/5	5-3.75	50×10	35	1	LMKP640050
	500/5	5-3.75	50×10	35	1	LMKP650050
	600/5	10-3.75	50×10	35	1	LMKP660050
	750/5	10-3.75	50×10	35	1	LMKP675050
	800/5	10-3.75	50×10	35	1	LMKP680050
	1000/5	10-3.75	50×10	35	1	LMKP6100050
LMK-0.66-60	500/5	5-3.75	60×20	45	1	LMKP650060
	600/5	10-3.75	60×20	45	1	LMKP660060
	750/5	10-3.75	60×20	45	1	LMKP675060
	800/5	10-3.75	60×20	45	1	LMKP680060
	1000/5	10-3.75	60×20	45	1	LMKP6100060
	1200/5	10-3.75	60×20	45	1	LMKP6120060
	1500/5	10-3.75	60×20	45	1	LMKP6150060
LMK-0.66-80	600/5	10-3.75	80×10 or 60×30	50	1	LMKP660080
	750/5	10-3.75	80×10 or 60×30	50	1	LMKP675080
	800/5	10-3.75	80×10 or 60×30	50	1	LMKP680080
	1000/5	10-3.75	80×10 or 60×30	50	1	LMKP6100080
	1200/5	10-3.75	80×10 or 60×30	50	1	LMKP6120080
	1500/5	15-3.75	80×10 or 60×30	50	1	LMKP6150080
	2000/5	15-3.75	80×10 or 60×30	50	1	LMKP6200080
	2500/5	20-3.75	80×10 or 60×30	50	1	LMKP6250080
LMK-0.66-100	600/5	10-3.75	100×10 or 80×30	60	1	LMKP6600100
	750/5	10-3.75	100×10 or 80×30	60	1	LMKP6750100
	800/5	10-3.75	100×10 or 80×30	60	1	LMKP6800100
	1000/5	10-3.75	100×10 or 80×30	60	1	LMKP61000100
	1200/5	10-3.75	100×10 or 80×30	60	1	LMKP61200100
	1500/5	15-3.75	100×10 or 80×30	60	1	LMKP61500100
	2000/5	15-3.75	100×10 or 80×30	60	1	LMKP62000100
	2500/5	20-3.75	100×10 or 80×30	60	1	LMKP62500100
	3000/5	20-3.75	100×10 or 80×30	60	1	LMKP63000100
LMK-0.66-120	1500/5	15-3.75	120×10 or 80×30	60	1	LMKP61500120
	2000/5	15-3.75	120×10 or 80×30	60	1	LMKP62000120
	2500/5	20-3.75	120×10 or 80×30	60	1	LMKP62500120
	3000/5	20-3.75	120×10 or 80×30	60	1	LMKP63000120
	4000/5	25-3.75	120×10 or 80×30	60	1	LMKP64000120
	5000/5	25-3.75	120×10 or 80×30	60	1	LMKP65000120

LMK Series Current Transformer

Standard: IEC 60044-1







Order Information

Class: 1

Maximum Voltage: 0.66KV

Model	Current ratio (A)	Rated Load (VA)	Bar (mm)	Diameter (mm)	Number of Turns through the core	Reference
LMK-0.66-30	30/5	5-3.75		20	5	LMKP6P13030
	50/5	5-3.75		20	3	LMKP6P15030
	75/5	5-3.75		20	2	LMKP6P17530
	100/5	5-3.75		20	2	LMKP6P110030
	150/5	5-3.75		20	1	LMKP6P115030
	200/5	5-3.75	30×10	20	1	LMKP6P120030
	250/5	5-3.75	30×10	20	1	LMKP6P125030
	300/5	5-3.75	30×10	20	1	LMKP6P130030
LMK-0.66-40	250/5	5-3.75	40×10	30	1	LMKP6P125040
	300/5	5-3.75	40×10	30	1	LMKP6P130040
	400/5	5-3.75	40×10	30	1	LMKP6P140040
	500/5	5-3.75	40×10	30	1	LMKP6P150040
	600/5	10-3.75	40×10	30	1	LMKP6P160040
LMK-0.66-50	300/5	5-3.75	50×10	35	1	LMKP6P130050
	400/5	5-3.75	50×10	35	1	LMKP6P140050
	500/5	5-3.75	50×10	35	1	LMKP6P150050
	600/5	10-3.75	50×10	35	1	LMKP6P160050
	750/5	10-3.75	50×10	35	1	LMKP6P175050
	800/5	10-3.75	50×10	35	1	LMKP6P180050
	1000/5	10-3.75	50×10	35	1	LMKP6P1100050
	1200/5	10-3.75	60×20	35	1	LMKP6P1120050
LMK-0.66-60	500/5	5-3.75	60×20	45	1	LMKP6P150060
	600/5	10-3.75	60×20	45	1	LMKP6P160060
	750/5	10-3.75	60×20	45	1	LMKP6P175060
	800/5	10-3.75	60×20	45	1	LMKP6P180060
	1000/5	10-3.75	60×20	45	1	LMKP6P1100060
	1200/5	10-3.75	60×20	45	1	LMKP6P1120060
	1500/5	10-3.75	60×20	45	1	LMKP6P1150060
	2000/5	10-3.75	60×20	45	1	LMKP6P1200060
LMK-0.66-80	600/5	10-3.75	80×10 or 60×30	50	1	LMKP6P160080
	750/5	10-3.75	80×10 or 60×30	50	1	LMKP6P175080
	800/5	10-3.75	80×10 or 60×30	50	1	LMKP6P180080
	1000/5	10-3.75	80×10 or 60×30	50	1	LMKP6P1100080
	1200/5	10-3.75	80×10 or 60×30	50	1	LMKP6P1120080
	1500/5	15-3.75	80×10 or 60×30	50	1	LMKP6P1150080
	2000/5	15-3.75	80×10 or 60×30	50	1	LMKP6P1200080
	2500/5	20-3.75	80×10 or 60×30	50	1	LMKP6P1250080
LMK-0.66-100	600/5	10-3.75	100×10 or 80×30	60	1	LMKP6P1600100
	750/5	10-3.75	100×10 or 80×30	60	1	LMKP6P1750100
	800/5	10-3.75	100×10 or 80×30	60	1	LMKP6P1800100
	1000/5	10-3.75	100×10 or 80×30	60	1	LMKP6P11000100
	1200/5	10-3.75	100×10 or 80×30	60	1	LMKP6P11200100
	1500/5	15-3.75	100×10 or 80×30	60	1	LMKP6P11500100
	2000/5	15-3.75	100×10 or 80×30	60	1	LMKP6P12000100
	2500/5	20-3.75	100×10 or 80×30	60	1	LMKP6P12500100
	3000/5	20-3.75	100×10 or 80×30	60	1	LMKP6P13000100
LMK-0.66-120	1500/5	15-3.75	120×10 or 80×30	60	1	LMKP6P11500120
	2000/5	15-3.75	120×10 or 80×30	60	1	LMKP6P12000120
	2500/5	20-3.75	120×10 or 80×30	60	1	LMKP6P12500120
	3000/5	20-3.75	120×10 or 80×30	60	1	LMKP6P13000120
	4000/5	25-3.75	120×10 or 80×30	60	1	LMKP6P14000120
	5000/5	25-3.75	120×10 or 80×30	60	1	LMKP6P15000120

LMK Series Current Transformer

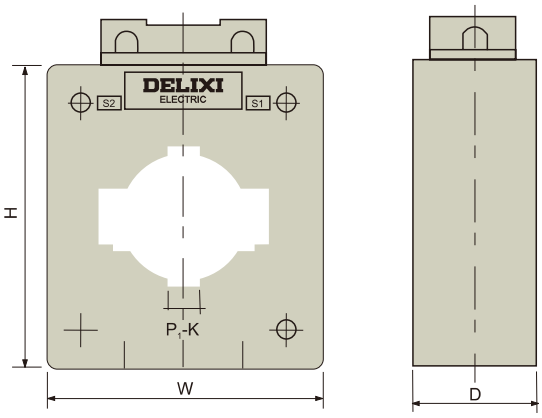
Standard: IEC 60044-1

Technical Data

- Primary current: 100A-5000A
- Secondary approval: 5A, 1A
- Maximum voltage: 0.66kV
- Class: 0.5, 1.0, 3.0
- Short time thermal current: Ith=100Ih
- Rated security coefficient: FS<5
- Standard: IEC 60044-1

Overall Dimensions

Unit: mm



Model	H	W	D
LMK-0.66-30	79	60	37
LMK-0.66-40	99	75	40
LMK-0.66-50	99	82	40
LMK-0.66-60	126	102	40
LMK-0.66-80	118	125	40
LMK-0.66-100	136	170	40
LMK-0.66-120	136	190	41

Meter Overview

Watt-hour Meter

Single-phase



DDS607 203

Type:
Single-phase

Specification
1.5(6)A, 3(6)A
2.5(10)A, 5(20)A
5(30)A, 10(40)A
15(60)A, 20(80)A
30(100)A

Three-phase



DTS607 205

Type:
Three-phase
Four-wire

Specification
1.5(6)A, 3(6)A
2.5(10)A, 5(20)A
5(30)A, 10(40)A
15(60)A, 20(80)A
30(100)A



DSS607 208

Type:
Three-phase
Three-wire

Specification
1.5(6)A, 3(6)A
5(20)A, 10(40)A
15(60)A. 20(80)A
30(100)A

Panel Meter



72 Series 211

Type:
□ Ammeter
□ Voltmeter
□ Frequency meter

Specification
72x72mm



96 Series 213

Type:
□ Ammeter
□ Voltmeter
□ Frequency meter

Specification
96x96mm

DDS607 Single-phase Electronic Watt-hour Meter

Standard:IEC 620531-21

Function

DDS607 single-phase watt-hour meter provide:

- □ Measuring the active energy in the single-phase AC power network with frequency of 50Hz or 60Hz.
- □ Measuring the active energy for enterprises, transformer substation or power substation. And be used as the automation meter in power transmission and distribution.





Order Information

Function Description	Current specification	Reference
Type A (Import chip)	1.5(6)A	DDS607N16M4A
Type A (Import chip)	2.5(10)A	DDS607N110M4A
Type A (Import chip)	5(20)A	DDS607N120M4A
Type A (Import chip)	5(30)A	DDS607N130M6A
Type A (Import chip)	10(40)A	DDS607N140M4A
Type A (Import chip)	15(60)A	DDS607N160M4A
Type A (Import chip)	20(80)A	DDS607N180M4A
Type A (Import chip)	30(100)A	DDS607N1100M3A
Type C (Domestic chip)	1.5(6)A	DDS607N26M4C
Type C (Domestic chip)	2.5(10)A	DDS607N210M4C
Type C (Domestic chip)	5(20)A	DDS607N220M4C
Type C (Domestic chip)	5(30)A	DDS607N230M6C
Type C (Domestic chip)	10(40)A	DDS607N240M4C
Type C (Domestic chip)	15(60)A	DDS607N260M4C
Type C (Domestic chip)	20(80)A	DDS607N280M4C
Type C (Domestic chip)	30(100)A	DDS607N2100M3C
LCD without 485 communications	1.5(6)A	DDS607N16M4CD
LCD without 485 communications	2.5(10)A	DDS607N110M4CD
LCD without 485 communications	5(20)A	DDS607N120M4CD
LCD without 485 communications	5(30)A	DDS607N130M6CD
LCD without 485 communications	10(40)A	DDS607N140M4CD
LCD without 485 communications	15(60)A	DDS607N160M4CD
LCD without 485 communications	20(80)A	DDS607N180M4CD
LCD with 485 communications	1.5(6)A	DDS607N16M4CD485
LCD with 485 communications	5(20)A	DDS607N120M4CD485
LCD with 485 communications	10(40)A	DDS607N140M4CD485
LCD with 485 communications	15(60)A	DDS607N160M4CD485
LCD with 485 communications and infrared communications	1.5(6)A	DDS607N116M4CD485I
LCD with 485 communications and infrared communications	2.5(10)A	DDS607N110M4CD485I
LCD with 485 communications and infrared communications	5(20)A	DDS607N120M4CD485I
LCD with 485 communications and infrared communications	5(30)A	DDS607N130M6CD485I
LCD with 485 communications and infrared communications	10(40)A	DDS607N140M4CD485I
LCD with 485 communications and infrared communications	15(60)A	DDS607N160M4CD485I
LCD with 485 communications and infrared communications	20(80)A	DDS607N180M4CD485I
LCD with 485 communications and infrared communications	30(100)A	DDS607N1100M3CD485I

Note: Users need special specifications can be customized

DDS607 Single-phase Electronic Watt-hour Meter

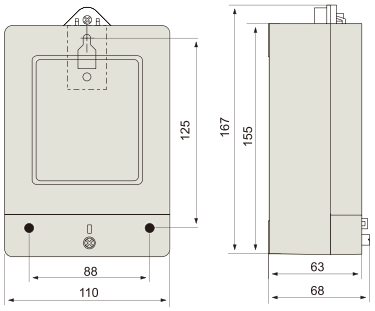
Standard:IEC 620531-21

Technical Data

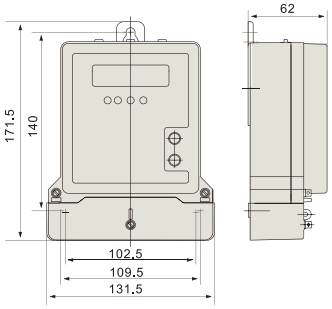
Standard	IEC 620531-21
Certificate	KEMA
Working voltage(V)	230V
Power loss	Voltage circuit ≤2W per10VA, Current circuit ≤4VA
Optional functions	LCD display, Infrared communication, 485 communication
Normal working temp.	-10℃~+45℃
Limited working temp.	-25℃~+55℃
Normal working voltage	0.9~1.1(Ref. voltage)
Limited working voltage	0.8~1.15(Ref. voltage)
Relative humidity	＜75%
Installation location	Should be installed in the height of 1.8m vertically and the angularity≤1°

Overall Dimensions

Unit: mm



Single-phase Type A,C Meter



Single-phase LCD Meter

DTS607 Three-phase Four-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

Function

DTS607 Three Phase four-wire watt-hour meter provide:

- ☐ Measuring the active energy in the three-phase four-wire AC power network at frequency of 50Hz or 60Hz.
- ☐ Measure the active energy of enterprises, transformer substation or power stations, and be used as automation meters of power transmission and distribution network.



Order Information

Voltage(V)	Grade	Current(A)	Reference
57.7/100	1	1.5(6)	DTS607WY16M4
		3(6)	DTS607WY16M2
230/400	1	1.5(6)	DTS607NV16M4
		2.5(10)	DTS607NV110M4
		3(6)	DTS607NV16M2
		5(20)	DTS607NV120M4
		10(40)	DTS607NV140M4
		15(60)	DTS607NV160M4
		20(80)	DTS607NV180M4
		30(100)	DTS607NV1100M3

NOTE: ☐"M" expresses the current multiple in the standard codes.

☐ Transformer function (H) is merely available for 1.5(6)A and 3(6)A.

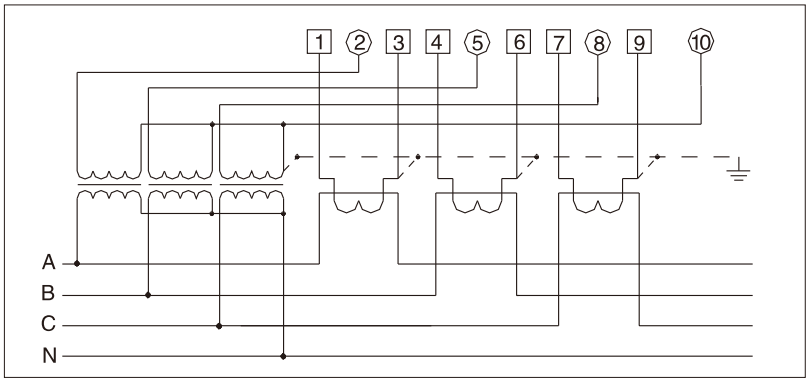
DTS607 Three-phase Four-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

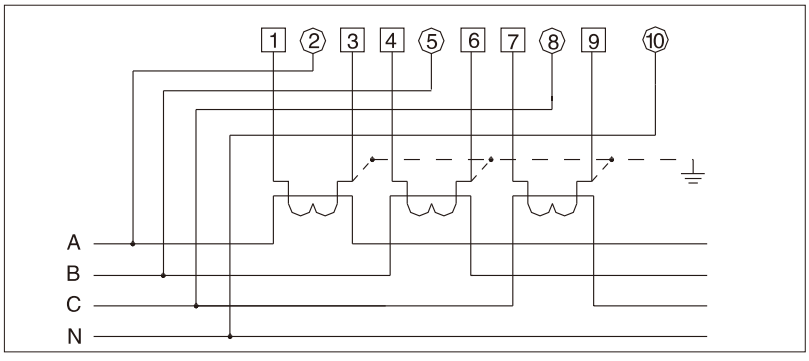
Technical Data

Working voltage	57.7/100V, 230/400V
Power loss	Voltage circuit≤2W per10VA, Current circuit≤4VA
Optional functions	LCD display, Infrared communication, 485 communication
Normal working temp.	-10℃～+45℃
Ultimate working temp.	-25℃～+55℃
Normal working voltage	0.9～1.1(Ref. voltage)
Ultimate working voltage	0.8～1.15(Ref. voltage)
Relative humidity	＜75%
Installation location	Should be installed in the height of 1.8m vertically and the angularity≤1°.

Wiring Diagram



■ Wiring diagram for 3 x 57.7/100V ≤3 x 3(6)A with voltage transformer

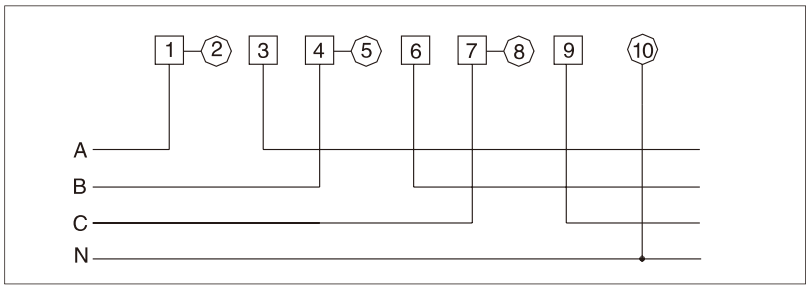


■ Wiring diagram for 3 x 230/400V ≤3 x 3(6)A with current transformer

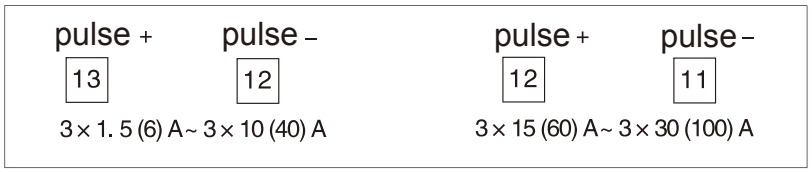
DTS607 Three-phase Four-wire Electronic Watt-hour Meter

Standard: IEC 62053-21

Wiring Diagram



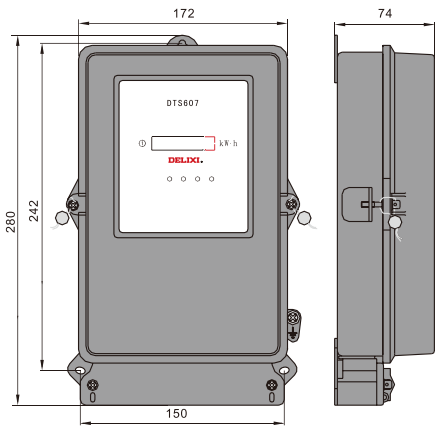
■ Wiring diagram for 3 x 230/400V ⩾3 x 2.5(10)A direct



■ Wiring diagram for impulse testing

Overall Dimensions

Unit: mm



DSS607 Single-phase Electronic Watt-hour Meter

Standard: IEC 62053-21

Function

DSS607 Single-phase electronic watt-hour meter provides:

- ☐ Measuring the active energy in the three-phase three-wire AC power network at frequency of 50Hz or 60Hz.
- ☐ Measure the active energy of enterprises, transformer substation or power stations, and be used as automation meters of power transmission and distribution network



Order Information

Voltage(V)	Grade	Current(A)	Reference
100	1	1.5（6）	DSS607Y16M4
		3（6）	DSS607Y16M2
400	1	1.5（6）	DSS607V16M4
		3（6）	DSS607V16M2
		5（20）	DSS607V120M4
		10（40）	DSS607V140M4
		15（60）	DSS607V160M4
		20（80）	DSS607V180M4
		30（100）	DSS607V1100M3

NOTE: ☐"M" expresses the current multiple in the standard codes.

☐ Transformer function (H) is merely available for 1.5(6)A and 3(6)A.

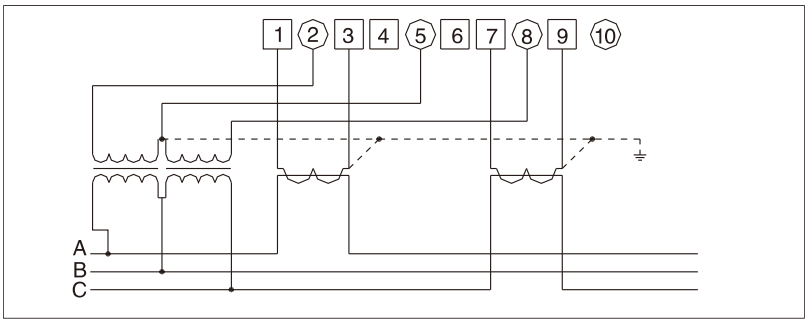
DSS607 Single-phase Electronic Watt-hour Meter

Standard: IEC 62053-21

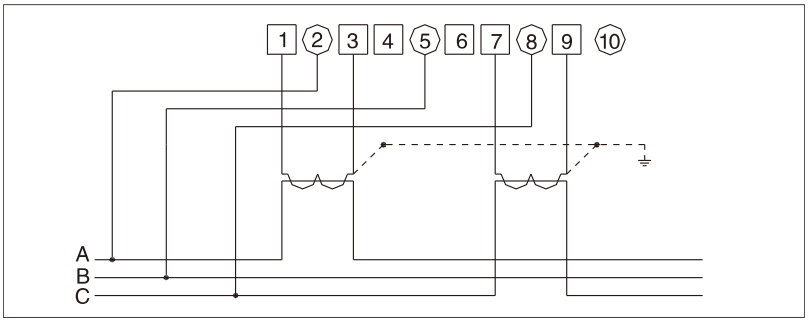
Technical Data

Standard	IEC 62053-21
Working voltage	100V 400V
Power loss	Voltage circuit ≤ 2W per 10VA, Current circuit ≤ 4VA
Optional functions	LCD display, Infrared communication, 485 communication
Normal working temp.	-10℃～+45℃
Ultimate working temp.	-25℃～+55℃
Normal working voltage	0.9～1.1(Ref. voltage)
Ultimate working voltage	0.8～1.15(Ref. voltage)
Average humidity	＜75%
Installation location	Should be installed in the height of 1.8m vertically and the angularity ≤ 1°.

Wiring Diagram



■ Wiring diagram for 3 x 100V ≤3 x 3(6)A with voltage transformer

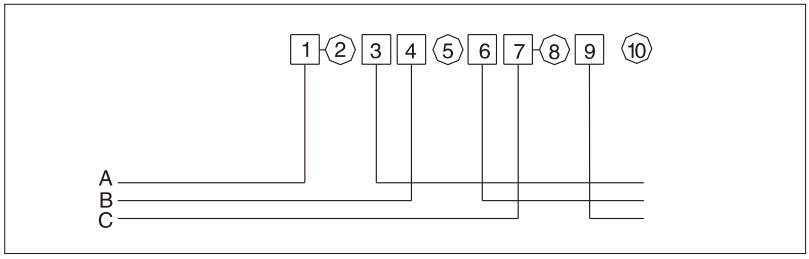


■ Wiring diagram for 3 x 400V ≤3 x 3(6)A with current transformer

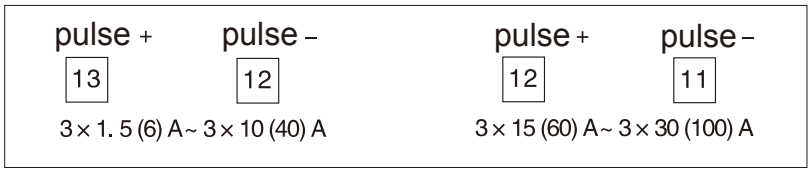
DSS607 Single-phase Electronic Watt-hour Meter

Standard: IEC 62053-21

Wiring Diagram



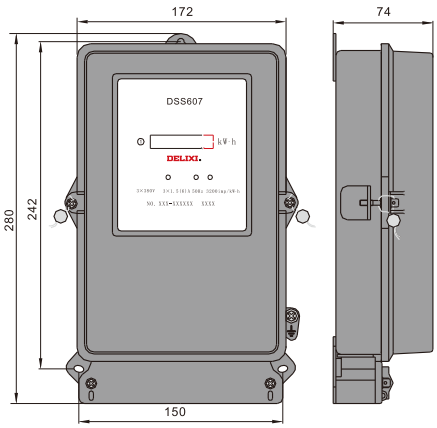
■ Wiring diagram for 3 x 400V ⩾3 x 2.5(10)A direct



■ Wiring diagram for impulse testing

Overall Dimensions

Unit: mm



72 Series Panel Meter

Standard: IEC 60051

Function

72 series panel meter provide:

- 72T applies to measure the current, voltage or frequency in the AC circuit.
- 72C applies to measure the current or voltage in the DC circuit.
- Mainly be used as an indicating instrument for high or low-voltage switch cabinet, power supply cabinet, control cabinet and other electric-control facilities in the AC transmission circuit system



Order Information

Type	Accuracy rating	Specification	Note	Shape(mm)	Reference
Ammeter	1.5	30/5A	AC Type	72×72×67.5	72TA30
		40/5A	External connection	72×72×67.5	72TA40
		50/5A	transformer	72×72×67.5	72TA50
		60/5A	2 times of current	72×72×67.5	72TA60
		75/5A	overload	72×72×67.5	72TA75
		80/5A		72×72×67.5	72TA80
		100/5A		72×72×67.5	72TA100
		150/5A		72×72×67.5	72TA150
		160/5A		72×72×67.5	72TA160
		200/5A		72×72×67.5	72TA200
		250/5A		72×72×67.5	72TA250
		300/5A		72×72×67.5	72TA300
		400/5A		72×72×67.5	72TA400
		600/5A		72×72×67.5	72TA600
		800/5A		72×72×67.5	72TA800
		1000/5A		72×72×67.5	72TA1000
		1600/5A		72×72×67.5	72TA1600
		5000/5A		72×72×67.5	72TA5000
		10000/5A		72×72×67.5	72TA10000
		5A	AC Type Direct connection	72×72×67.5	72TA5A
	2.5	15A	AC Type	72×72×67.5	72TA15A
		20A	Direct connection	72×72×67.5	72TA20A
		25A	2 times of current	72×72×67.5	72TA25A
		30A	overload	72×72×67.5	72TA30A
		40A		72×72×67.5	72TA40A
		50A		72×72×67.5	72TA50A
		60A		72×72×67.5	72TA60A
		80A		72×72×67.5	72TA80A
		100A		72×72×67.5	72TA100A
	1.5	5A	DC Type	72×72×67.5	72CA5A
Voltmeter	1.5	300V	AC Type	72×72×67.5	72TV300V
		500V		72×72×67.5	72TV500V
		600V		72×72×67.5	72TV600V
		500V	DC Type	72×72×67.5	72CV5500V
Frequency meter	1.0	45-55HZ (200V)	AC Type	72×72×67.5	72THZ01200V

72 Series Panel Meter

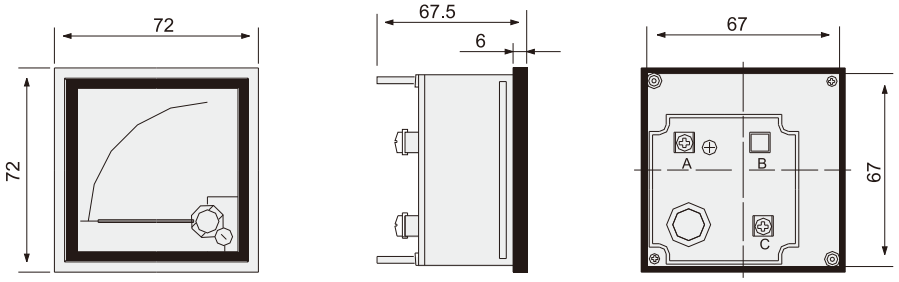
Standard: IEC 60051

Technical Data

Standard	IEC 60051
Dielectric strength test	Frequency 50/60Hz Voltage 2000V, duration 1 minute
Impact test	Max acceleration 147m/s^2
Response time	≤ 4s
Angular Deflection	90°
Temp.	-25℃~+40
Humidity	(25%~80%)RH
Environment	No mildew, insects, salt mist, dew in the air, few sands and dusts are permitted.
Installation	Shall be installed vertically

Overall Dimensions

Unit:mm



96 Series Panel Meter

Standard: IEC 60051

Function

96 series panel meter provide:

- 96T applies to measure the current, voltage or frequency in the AC circuit.
- 96C applies to measure the current or voltage in the DC circuit.
- Mainly be used as an indicating instrument for high or low-voltage switch cabinet, power supply cabinet, control cabinet and other electric-control facilities in the AC transmission circuit system



Order Information

Type	Accuracy rating	Specification	Note	Shape(mm)	Reference
Ammeter	1.5	30/5A	AC Type	96×96×67.5	96TA30
		40/5A	External connection	96×96×67.5	96TA40
		50/5A	transformer	96×96×67.5	96TA50
		60/5A		96×96×67.5	96TA60
		75/5A		96×96×67.5	96TA75
		80/5A		96×96×67.5	96TA80
		100/5A		96×96×67.5	96TA100
		150/5A		96×96×67.5	96TA150
		160/5A		96×96×67.5	96TA160
		200/5A		96×96×67.5	96TA200
		250/5A		96×96×67.5	96TA250
		300/5A		96×96×67.5	96TA300
		400/5A		96×96×67.5	96TA400
		600/5A		96×96×67.5	96TA600
		800/5A		96×96×67.5	96TA800
		1000/5A		96×96×67.5	96TA1000
		1600/5A		96×96×67.5	96TA1600
		5000/5A		96×96×67.5	96TA5000
		10000/5A		96×96×67.5	96TA10000
		5A	AC Type Direct connection	96×96×67.5	96TA5A
	2.5	15A	AC Type	96×96×67.5	96TA15A
		20A	Direct connection	96×96×67.5	96TA20A
		25A		96×96×67.5	96TA25A
		30A		96×96×67.5	96TA30A
		40A		96×96×67.5	96TA40A
		50A		96×96×67.5	96TA50A
		60A		96×96×67.5	96TA60A
		80A		96×96×67.5	96TA80A
		100A		96×96×67.5	96TA100A
	1.5	5A	DC Type	96×96×67.5	96CA5A
Voltmeter	1.5	300V	AC Type	96×96×67.5	96TV300V
		500V		96×96×67.5	96TV500V
		600V		96×96×67.5	96TV600V
		500V	DC Type	96×96×67.5	96CV500
Frequency meter	1.0	45-55HZ (200V)	AC Type	96×96×67.5	96THZ01200V

96 Series Panel Meter

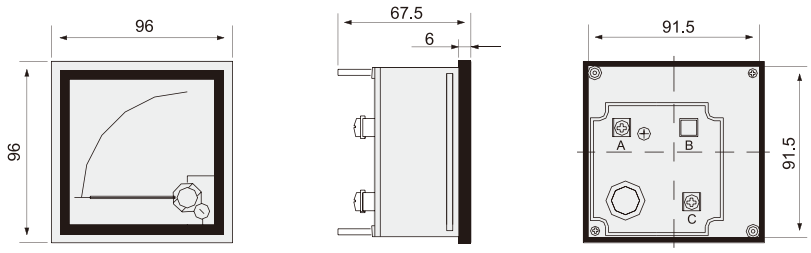
Standard: IEC 60051

Technical Data

Standard	IEC 60051
Dielectric strength test	Frequency 50/60Hz Voltage 2000V, duration 1 minute
Impact test	Max acceleration 147m/s^2
Response time	≤ 4s
Angular Deflection	90°
Temp.	-25℃~+40
Humidity	(25%~80%)RH
Environment	No mildew, insects, salt mist, dew in the air, few sands and dusts are permitted.
Installation	Shall be installed vertically

Overall Dimensions

Unit:mm



Time Switch Overview



KG316T 216

Max.switch times per day:10-on-10-off, 8-on-8-off

Reset:Power-off reset



KG316TD 217

Max.switch times per day:16-on-16-off

Reset:key-button reset



KG816A 218

Max.switch times per day:16-on-16-off

Reset:key-button reset



KG816B 218

Max.switch times per day:8-on-8-off

Reset:key-button reset

KG316T Series Digital Time Switch

Standard: IEC 60947-5-1

Function

KG316T Series Digital Time Switch provide:

□Rated AC frequency of 50Hz, rated AC control voltage 400V or below.

□Be used as time control components in automatic control circuit, according to the scheduled time to turn-on or off the circuits.



Order Information

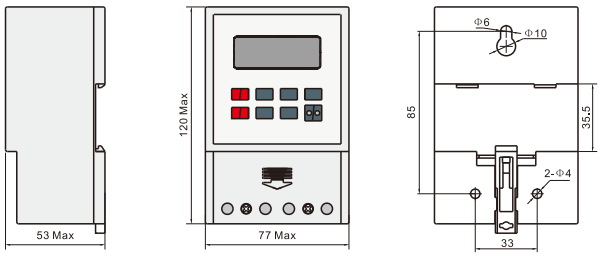
Output loops	Rated control voltage	Reference
10-on-10-off (Single output)	AC:230V	KG316T230
	AC:400V	KG316T400
8-on-8-off (Double output)	AC:230V	KG316T2230
	AC:400V	KG316T2400

Technical Data

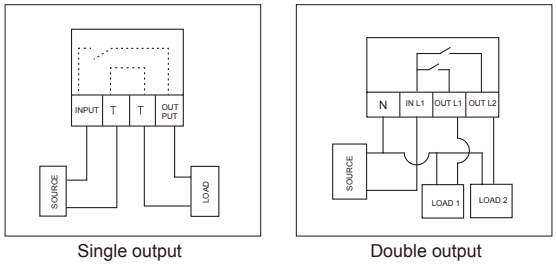
Standard	IEC 60947-5-1
Control time	Setting Value range from 1min to168h Operation by daily or weekly
Using mode	AC-15: 240V/3A 400V/1.9A
Control power	≤ 6kW
Rated control voltage	230/400V AC
Rated thermal cur.	10A
Accuracy	≤2s/day
Mechanical life	⩾1×10^6 times
Electrical life	⩾1×10^5 times
Power loss	⩽3W
Temp.	-5℃ ~ +40℃
Display modet	Digital LED display
Time-set Mode	Digital Keyswitch setting
Battery	Inner alkaline battery
Install Mode	Install mounted, Din rail mounted

Overall Dimensions

Unit: mm



Wiring Diagram



Single output Double output

Management Power Energy

KG316TD Series Digital Time Switch

Standard: IEC 60947-5-1

Function

KG316TD Series Digital Time Switch provide:

□ Rated AC frequency of 50Hz, rated control supply voltage AC 400V or below.

□ Any circuit equipments that need to be turned-on-or-off timely.



Order Information

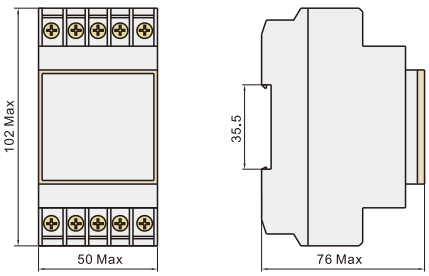
Output loops	Rated control voltage	Reference
16-on-16-off	AC:230V	KG316TD230
	AC:400V	KG316TD400

Technical Data

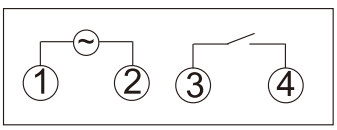
Standard	IEC 60947-5-1
Control time	Setting Value range from 1min to168h Operation by daily or weekly
Using mode	AC-15: 240V/3A 400V/1.9A
Control power	≤ 6kW
Rated control voltage	230/400V AC
Rated thermal cu	10A
Accuracy	≤2s/day
Mechanical life	$\geqslant 1\times10^{6}$ times
Electrical life	$\geqslant 1\times10^{5}$ times
Power loss	≤3W
Temp.	-5℃～+40℃
Display modet	Digital LED display
Time-set Mode	Digital Keyswitch settingt
Battery	Inner rechangeable battery
Install Mode	Install mounted, Din rail mounted

Overall Dimensions

Unit: mm



Wiring Diagram



KG816 Series Digital Time Switch

Standard:IEC 60947-5-1

Function

KG816 Series Digital Time Switch provide:

□ Rated AC frequency of 50Hz, rated AC control voltage 230V or below.

□ Be used as time control components in automatic control circuit, according to the scheduled time to turn-on or off the circuits.



KG816A



KG816B

Order Information

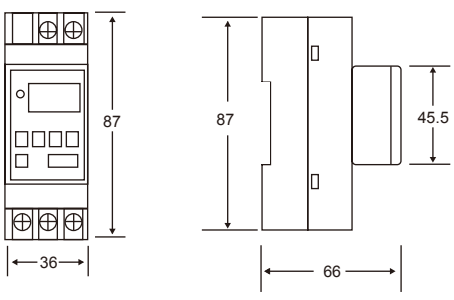
Cover	Output loops	Rated control voltage	Reference
Non-transparent cover	16-on-16-off	AC:230V	KG816A230
Transparent cover	8-on-8-off	AC:230V	KG816B230

Technical Data

Standard	IEC 60947-5-1
Control time	Setting value range from 1min to 168 hrs
	Operate by daily or weekly
Using mode	AC-15: 240V/3A; 400V/1.9A
Countrol power	≤6kW
Rated control voltage	230VAC
Rated thermal cur.	10A
Accuracy	≤2s/day
Mechanical life	≥1X10^6
Electrical life	≥1X10^5
Power loss	≤4.5W
Temp.	-5℃~+40℃
Display mode	Digital LED display
Time-set Mode	Digital Keyswitch setting
Battery	Inner rechangable battery
Install Mode	Din rail mounted

Overall Dimensions

Unit: mm



Voltage Stabilizer Overview

Single-phase



TND 220

Type: Single-phase

Specification: 0.5kVA, 1kVA
1.5kVA, 2kVA, 3kVA, 5kVA,
7kVA, 10kVA, 15kVA, 20kVA, 30kVA

Three-phase



SJW 222

Type: Three-phase

Specification: 1.5kVA, 3kVA
4.5kVA, 6kVA, 9kVA, 15kVA,
20kVA, 30kVA, 45kVA, 60kVA



SBW 224

Type: Three-phase Compensation

Specification: 10kVA, 15kVA
30kVA, 50kVA, 100kVA, 150kVA,
200kVA, 250kVA, 300kVA, 400kVA,
500kVA, 600kVA, 800kVA

TND Single-phase Full Automatic AC Voltage Stabilizer

Standard: EN 61000-6-2 EN 61000-6-4 EN 61558-1

CE

Function

TND single-phase AC voltage stabilizer provide:

☐ This product is constructed by connecting three stabilizers with Y-connection

☐ Wide input voltage range, high efficiency, over-load protection, short adjusting time, high regulation accuracy, same input and output voltage waveform, small volume, less weight.

☐ It's available in the electric equipments and facilities in housing, school, shop, office and precision instrument for scientific experiment.





Order Information

Shape	Output voltage	Power rating	Reference		
			Europe plug	British plug	Terminal connect
Desktop	220V	0.5K	TNDP5HE220	TNDP5HB220	-
		1K	TND1HE220	TND1HB220	-
		1.5K	TND1P5HE220	TND1P5HB220	-
		2K	-	-	TND2H220
		3K	-	-	TND3H220
		5K	-	-	TND5H220
		7K	-	-	TND7H220
		10K	-	-	TND10H220
Cabinet	220V	10K	-	-	TND10GH220
		15K	-	-	TND15GH220
		20K	-	-	TND20GH220
		30K	-	-	TND30GH220
Desktop	230V	0.5K	TNDP5HE230	TNDP5HB230	-
		1K	TND1HE230	TND1HB230	-
		1.5K	TND1P5HE230	TND1P5HB230	-
		2K	-	-	TND2H230
		3K	-	-	TND3H230
		5K	-	-	TND5H230
		7K	-	-	TND7H230
		10K	-	-	TND10H230
Cabinet	230V	10K	-	-	TND10GH230
		15K	-	-	TND15GH230
		20K	-	-	TND20GH230
		30K	-	-	TND30GH230

TND Single-phase Full Automatic AC Voltage Stabilizer

Standard: EN 61000-6-2 EN 61000-6-4 EN 61558-1

CE

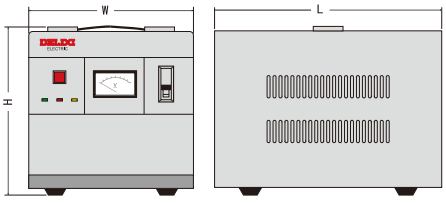
Technical Data

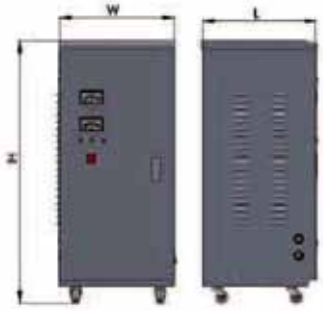
Type		TND0.5kVA~5kVA	TND7kVA~30kVA
Output voltage	Voltage regulation accuracy	220±4%,110±4%	220±4%
	Undervoltage protection	184V±4V(set up according to the customers request)	
	Overvoltage protection	246V±4V	
Phase		single-phase	
Input voltage range		160V~240V	
Efficiency		>90%	
Voltage regulation speed		<1s(when input voltage change 10%)	
Frequency		50/60Hz	
Enviroment		-5℃~40℃ below 90%	
temperature,relative temperature Rated maximum output current(A)		2(500VA), 4(1000VA), 6(1500VA), 8(2000VA) 12(3000VA), 20(5000VA), 25(7000VA), 40(10KVA) 85(15KVA), 73(20KVA), 109(30KVA)	
Withstand voltage		1500V/1min	

- Standard: EN 61000-6-2 EN 61000-6-4 EN 61558-1
- Certification: CE

Overall Dimensions

Unit: mm





Product shape	Model	Wide×Length×Hight		
		W	L	H
Desktop	TND-0.5	190	160	135
	TND-1	205	190	155
	TND-1.5	205	190	155
	TND-2	240	270	200
	TND-3	225	305	235
	TND-5	225	310	290
	TND-7	240	387	360
	TND-10	240	387	360
Cabinet type	TND-10	310	340	535
	TND-15	340	360	640
	TND-20	340	380	780
	TND30	425	390	845

SJW Three-phase Full Automatic AC Voltage Stabilizer

Function

SJW three-phase AC voltage stabilizer provide:

□ This product is constructed by connecting three stabilizers with Y-connection

□ Wide input voltage range, high efficiency, over-load protection, short adjusting time, high regulation accuracy, same input and output voltage waveform, small volume, less weight.

□ It's available in the electric equipments and facilities in housing, factory, shool, shop, office and precision instrument for scientific experiment.



Order Information

Shape	Power rating	Reference
Desktop	1.5 kVA	SJW1P5
	3 kVA	SJW3
	4.5 kVA	SJW4P5
Cabinet	6 kVA	SJW6G
	9 kVA	SJW9G
	15 kVA	SJW15G
	20 kVA	SJW20G
	30 kVA	SJW30G
	45 kVA	SJW45G

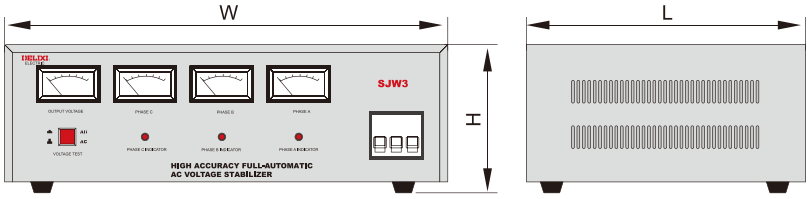
Technical Data

Type		SJW 1.5KVA~60KVA
Output voltage	Voltage regulation accuracy	380V ±4%
	Low-voltage protection	340V±7V(adjustable)
	Over-voltage protection	420V ±7V
Input voltage range		280~415V
Efficiency		90%
Voltage regulation speed		<1s(voltage fluctuation≥10%)
Frequency		50/60Hz
Waveform distortion:		No additional distortion
Withstand voltage		1500V/1min
Temperature rise		<+60℃
Environment temp.		-5℃~+40℃

Overall Dimensions

Unit:mm

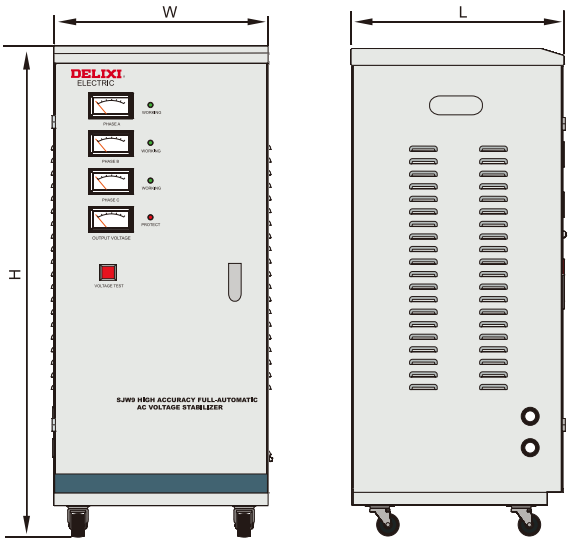
Desktop



SJW Three-phase Full Automatic AC Voltage Stabilizer

Overall Dimensions

■ Cabinet



Shape	Model	Wide x Length x Hight		
		W	L	H
Desktop	SJW-1P5	485	315	165
	SJW-3	485	315	165
	SJW-4.5	485	315	165
Cabinet	SJW-6	278	322	665
	SJW-9	320	325	750
	SJW-15	350	350	855
	SJW-20	425	390	845
	SJW-30	440	415	875
	SJW-45	550	450	1170
	SJW-60	600	495	1300

SBW Three-phase Compensation AC Voltage Stabilizer

Function

SBW three-phase compensation AC voltage stabilizer provide:

- This product is designed and developed with the international advanced compensation technology. It can keep the output voltage in steady state automatically when the network voltage fluctuated or the load current varied.
- It's provided with over-voltage, over-current, phase sequence protection function.



Order Information

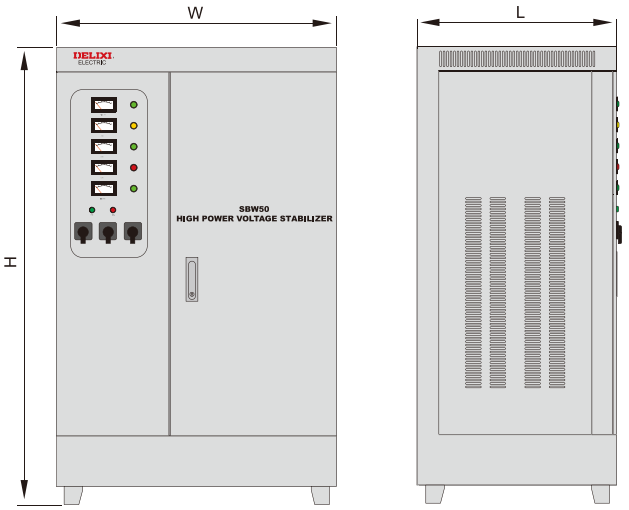
Power rating	Reference
10kVA	SBW10
15kVA	SBW15
30kVA	SBW30
50kVA	SBW50
100kVA	SBW100
150kVA	SBW150
200kVA	SBW200
250kVA	SBW250
300kVA	SBW300
400kVA	SBW400
500kVA	SBW500
600kVA	SBW600
800kVA	SBW800

Technical Data

Type		SBW 10KVA~1600KVA
Output voltage	Voltage regulation accuracy	380V ±3%
	Low-voltage protection	340V ±7V
	Over-voltage protection	425V ±7V
Input voltage range		304~456V
Efficiency		≥98%
Voltage regulation speed		<1s(voltage fluctuation≥10%)
Frequency		50/60Hz
Waveform distortion		≤1%
Insulation resistance		≥2MΩ
Withstand voltage		2000V/1min
Temperature rise		<+60℃
Environment temp.		-5℃~+40℃

SBW Three-phase Compensation AC Voltage Stabilizer

Overall Dimensions



Unit: mm

Model	Wide x Length x Hight		
	W	L	H
SBW-10	750	580	1170
SBW-20	750	580	1170
SBW-50	800	570	1300
SBW-100	850	645	1460
SBW-200	1050	750	1850
SBW-500	1400	1100	2100
SBW-800	1350	1100	2200
SBW-1000	1050	750	2200
SBW-1600	1300	1100	2200

Control Signal Overview

Indicator Light



LD11 227

IP degree:IP65

Specification

AC/DC: 6V 12V 24V 36V 48V 110V 220V 230V

AC: 220V 230V 380V

Pushbutton Switches



LAY5 231

IP degree:IP55

Specification

AC-15: 380V/2A 220V/3.3A

DC-13: 220V/0.5A 110V/1.1A



LAY7 241

IP degree:IP55

Specification

AC-15: 660V/1.1A

380V/2.0A 220V/3.3A

DC-13: 440V/0.25A

220V/0.5A 110V/1A



LAY8 247

IP degree:IP55

Specification

AC-15: 660V/1.5A

380V/2.5A 220V/4.5A

DC-13: 440V/0.2A

220V/0.4A 110V/0.8A

LD11 Indicator Light

Standard: IEC 60947-5

Function

LD11 Series of indicator light provide:

- Pilot signal, anticipating signals
- Emergency signals and other instructions incidents signal use

Technical Data

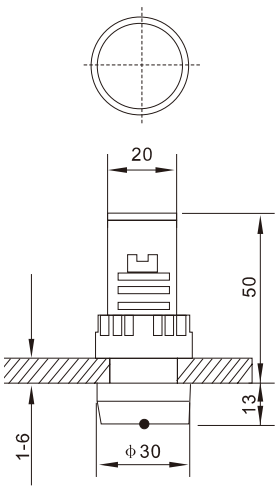
Rated voltage(V)	AC/DC 6 12 24 36 48 110 220	AC 220 230 380
Rated current(mA)	≤50	≤20
Working life(H)	30000	
Brightness of light(cd/m^2)	≥40	
Power frequency withstand voltage	2500V AC 1min	
Before board protect degree	IP65	

Order Information

Installation dimension	Type	Step-down Type	Button colour	Rated voltage	Reference
22: ¢22	A: Full cover head & long terminal	2: Resistance type 4: Capacitance type	○	AC.DC 6V	LD1122A21T7
			●		LD1122A21T3
			●		LD1122A21T4
			●		LD1122A21T5
			●		LD1122A21T8
			○	AC.DC 12V	LD1122A21J7
			●		LD1122A21J3
			●		LD1122A21J4
			●		LD1122A21J5
			●		LD1122A21J8
			○	AC.DC 24V	LD1122A21B7
			●		LD1122A21B3
			●		LD1122A21B4
			●		LD1122A21B5
			●		LD1122A21B8
			○	AC.DC 110V	LD1122A21F7
			●		LD1122A21F3
			●		LD1122A21F4
			●		LD1122A21F5
			●		LD1122A21F8
			○	AC.DC 220V	LD1122A21M7
			●		LD1122A21M3
			●		LD1122A21M4
			●		LD1122A21M5
			●		LD1122A21M8
			○	AC 230V	LD1122A41N7
			●		LD1122A41N3
			●		LD1122A41N4
			●		LD1122A41N5
			●		LD1122A41N8



Overall Dimensions Unit:mm



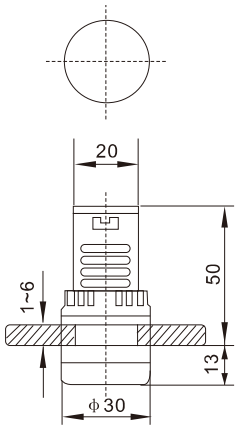
LD11 Indicator Light

Standard: IEC 60947-5

Order Information

Installation dimension	Type	Step-down Type	Button colour	Rated voltage	Reference	Overall Dimensions	Unit:mm
			○	AC 380V	LD1122A41Q7		
			🟢		LD1122A41Q3		
			🔴		LD1122A41Q4		
			🟡		LD1122A41Q5		
			🔵		LD1122A41Q8		
22:¢22	B: Half cover head&long terminal	2: Resistance type 4: Capacitance type	○	AC.DC 6V	LD1122B21T7		
			🟢		LD1122B21T3		
			🔴		LD1122B21T4		
			🟡		LD1122B21T5		
			🔵		LD1122B21T8		
			○	AC.DC 12V	LD1122B21J7		
			🟢		LD1122B21J3		
			🔴		LD1122B21J4		
			🟡		LD1122B21J5		
			🔵		LD1122B21J8		
			○	AC.DC 24V	LD1122B21B7		
			🟢		LD1122B21B3		
			🔴		LD1122B21B4		
			🟡		LD1122B21B5		
			🔵		LD1122B21B8		
			○	AC.DC 110V	LD1122B21F7		
			🟢		LD1122B21F3		
			🔴		LD1122B21F4		
			🟡		LD1122B21F5		
			🔵		LD1122B21F8		
			○	AC.DC 220V	LD1122B21M7		
			🟢		LD1122B21M3		
			🔴		LD1122B21M4		
			🟡		LD1122B21M5		
			🔵		LD1122B21M8		
			○	AC 230V	LD1122B41N7		
			🟢		LD1122B41N3		
			🔴		LD1122B41N4		
			🟡		LD1122B41N5		
			🔵		LD1122B41N8		
			○	AC 380V	LD1122B41Q7		
			🟢		LD1122B41Q3		
			🔴		LD1122B41Q4		
			🟡		LD1122B41Q5		
			🔵		LD1122B41Q8		





LD11 Indicator Light

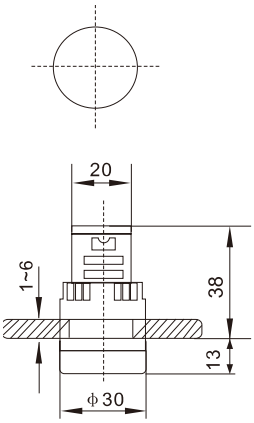
Standard: IEC 60947-5

Order Information

Installation dimension	Type	Step-down Type	Button colour	Rated voltage	Reference
22: ¢ 22	C: Full cover head & short terminal	2: Resistance type 4: Capacitance type	○	AC.DC 6V	LD1122C21T7
			●		LD1122C21T3
			●		LD1122C21T4
			●		LD1122C21T5
			●		LD1122C21T8
			○	AC.DC 12V	LD1122C21J7
			●		LD1122C21J3
			●		LD1122C21J4
			●		LD1122C21J5
			●		LD1122C21J8
			○	AC.DC 24V	LD1122C21B7
			●		LD1122C21B3
			●		LD1122C21B4
			●		LD1122C21B5
			●		LD1122C21B8
			○	AC 220V	LD1122C41M7
			●		LD1122C41M3
			●		LD1122C41M4
			●		LD1122C41M5
			●		LD1122C41M8
			○	AC 230V	LD1122C41N7
			●		LD1122C41N3
			●		LD1122C41N4
			●		LD1122C41N5
			●		LD1122C41N8
			○	AC 380V	LD1122C41Q7
			●		LD1122C41Q3
			●		LD1122C41Q4
			●		LD1122C41Q5
			●		LD1122C41Q8



Overall Dimensions Unit:mm



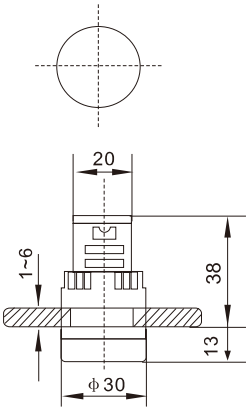
LD11 Indicator Light

Standard: IEC 60947-5

Order Information

Installation dimension	Type	Step-down Type	Button colour	Rated voltage	Reference	Overall Dimensions	Unit:mm
22: ¢22	D: Half cover head&short terminal	2: Resistance type 4: Capacitance type	○	AC.DC 6V	LD1122D21T7		
			●		LD1122D21T3		
			●		LD1122D21T4		
			●		LD1122D21T5		
			●		LD1122D21T8		
			○	AC.DC 12V	LD1122D21J7		
			●		LD1122D21J3		
			●		LD1122D21J4		
			●		LD1122D21J5		
			●		LD1122D21J8		
			○	AC.DC 24V	LD1122D21B7		
			●		LD1122D21B3		
			●		LD1122D21B4		
			●		LD1122D21B5		
			●		LD1122D21B8		
			○	AC 220V	LD1122D41M7		
			●		LD1122D41M3		
			●		LD1122D41M4		
			●		LD1122D41M5		
			●		LD1122D41M8		
			○	AC 230V	LD1122D41N7		
			●		LD1122D41N3		
			●		LD1122D41N4		
			●		LD1122D41N5		
			●		LD1122D41N8		
			○	AC 380V	LD1122D41Q7		
			●		LD1122D41Q3		
			●		LD1122D41Q4		
			●		LD1122D41Q5		
			●		LD1122D41Q8		





LAY5 Pushbutton Switches

Standard: IEC 60947-5

Function

LAY5 series of pushbutton switches provide:

□ Control and indicate the status of the circuit





Technical Data

Usage mode			Rated valve					
AC-15	Rated voltage (Ue)	V	380		220			
	Rated current (Ie)	A	2		3.3			
DC-13	Rated voltage (Ue)	V	220		110			
	Rated current (Ie)	A	0.5		1.1			
Mechanical endurance		105	30 (Flush type), 10 (Illuminated)					
			1 (Emergency stop, Selective-type, Key-tpye)					
Electric endurance		105	AC6 (Flush type) DC3 (Illuminated)					
			1 (Emergency stop, Selective-type, Key-tpye)					
Rated thermal current (Ith)		A	6					
Before board protect degree			IP55					
Illuminated pushbutton								
Power supplier voltage		V	6	12	24	110	220	380
LED			√	√	√	√	√	–
Neon lamp			–	–	–	√	√	√
Filament lamp			√	√	√	–	–	–



Working Condition

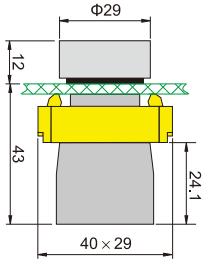
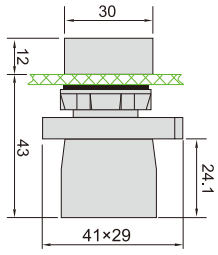
Temperature	-5℃~+40℃,
Ralative humidity	≤ 50%(40℃) 90%(20℃)
Above sea level	≤ 2000m
Pollution grade	3

LAY5 Pushbutton Switches

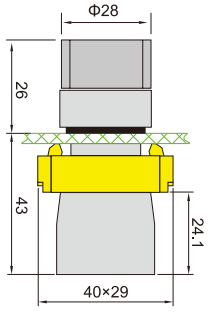
Standard: IEC 60947-5

Order Information

Flush Button — Unit: MM

Name	Material	Type	Color	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐		
	B: Metal	A: Momentary	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	○ LAY5BA15 ● LAY5BA25 ● LAY5BA31 ● LAY5BA42 ● LAY5BA55 ● LAY5BA65	
	E: Plastic	A: Momentary	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	○ LAY5EA15 ● LAY5EA25 ● LAY5EA31 ● LAY5EA42 ● LAY5EA55 ● LAY5EA65	

Selective Button Switch — Unit: MM

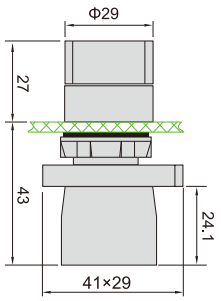
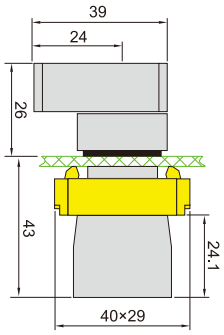
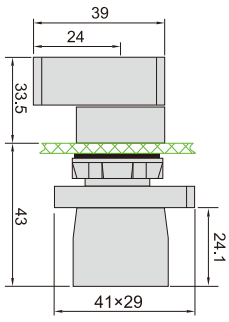
Name	Material	Type	Operation	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐		
	B: Metal	D: Selective button with short handle	2:2p C R 3:3p L C R 4:2p C R 5:3p L C R	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	LAY5BD21 LAY5BD25 LAY5BD33 LAY5BD45 LAY5BD53	

LAY5 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Selective Switches — Unit: MM

Name	Material	Type	Operation	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐		
	E: Plastic	D: Selective switch with short handle	2:2p C R 3:3p L C R 4:2p C R 5:3p L C R	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	LAY5ED21 LAY5ED25 LAY5ED33 LAY5ED45 LAY5ED55	
	B: Metal	J: Selective switch with short handle	2:2p C R 3:3p L C R 4:2p C R 5:3p L C R	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	LAY5BJ21 LAY5BJ25 LAY5BJ33 LAY5BJ45 LAY5BJ55	
	E: Plastic	J: Selective switch with short handle	2:2p C R 3:3p L C R 4:2p C R 5:3p L C R	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	LAY5EJ21 LAY5EJ25 LAY5EJ33 LAY5EJ45 LAY5EJ55	

LAY5 Pushbutton Switches

Standard: IEC 60947-5

Order Information

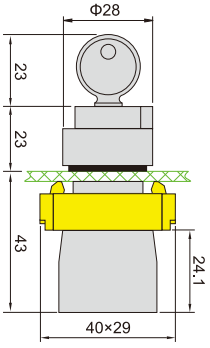
Key-operated Selective Switches — Unit: MM

Name	Material	Type	Operation	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐		



B: Metal — G: Key-operated selective switches

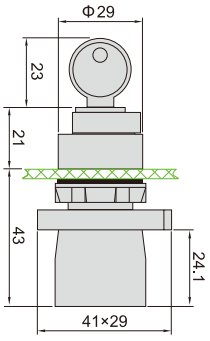
Operation		NO + NC	Reference
2:2p	C R	1: 1NO	LAY5BG21
3:3p	L C R	2: 1NC	LAY5BG25
4:2p reset	C R	3: 2NO	LAY5BG33
5:3p reset	L C R	4: 2NC	LAY5BG45
		5: 1NO+1NC	LAY5BG55





E: Plastic — G: Key-operated selective switches

Operation		NO + NC	Reference
2:2p	C R	1: 1NO	LAY5EG21
3:3p	L C R	2: 1NC	LAY5EG25
4:2p reset	C R	3: 2NO	LAY5EG33
5:3p reset	L C R	4: 2NC	LAY5EG45
		5: 1NO+1NC	LAY5EG55



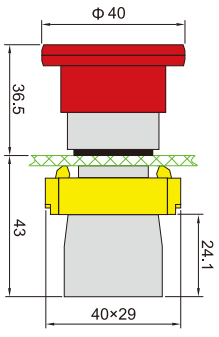
Mushroom Button — Unit: MM

Name	Material	Type	Color	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐		



B: Metal — C: Φ 40 Mushroom

Color	NO + NC	Reference
3: Green	1: 1NO	● LAY5BC31
4: Red	2: 1NC	● LAY5BC42
	3: 2NO	● LAY5BC35
	4: 2NC	● LAY5BC45
	5: 1NO+1NC	

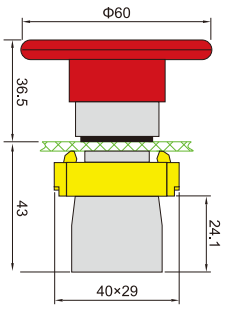
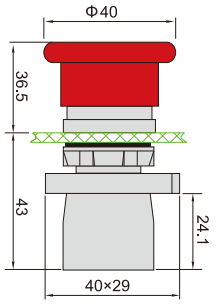
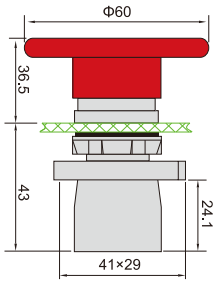


LAY5 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Mushroom Button — Unit: MM

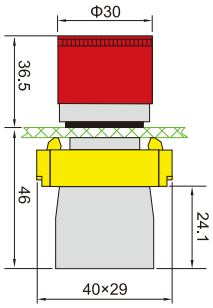
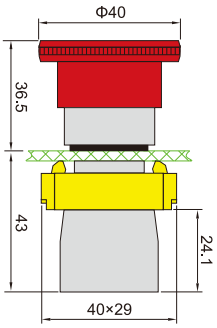
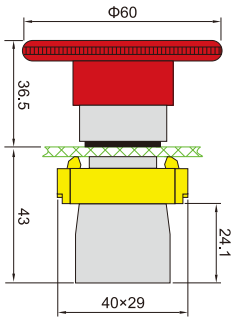
Name	Material	Type	Color	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐		
	B: Metal	R: Φ 60 Mushroom	3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5BR31 ● LAY5BR42 ● LAY5BR35 ● LAY5BR45	
	E: Plastic	C: Φ 40 Mushroom	3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5EC31 ● LAY5EC42 ● LAY5EC35 ● LAY5EC45	
	E: Plastic	R: Φ 60 Mushroom	3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5ER31 ● LAY5ER42 ● LAY5ER35 ● LAY5ER45	

LAY5 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Emergency Stop Button — Unit: MM

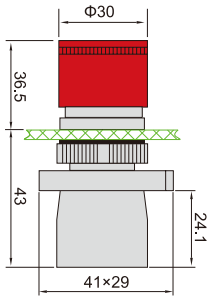
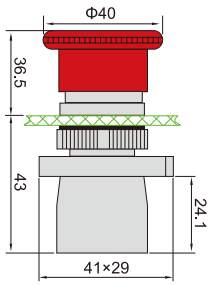
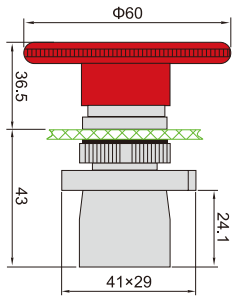
Name	Material	Type	Head	Color	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐	☐		
	B:Metal	S: Emergency	4: Φ 30	3:Green 4:Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5BS431 ● LAY5BS442 ● LAY5BS435 ● LAY5BS445	
	B:Metal	S: Emergency	5: Φ 40	3:Green 4:Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5BS531 ● LAY5BS542 ● LAY5BS535 ● LAY5BS545	
	B:Metal	S: Emergency	6: Φ 60	3:Green 4:Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5BS631 ● LAY5BS642 ● LAY5BS635 ● LAY5BS645	

LAY5 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Emergency Stop Button — Unit: MM

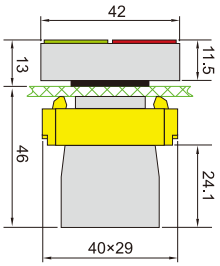
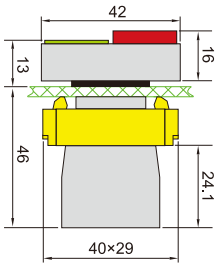
Name	Material	Type	Head	Color	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐	☐		
	E: Plastic	S: Emergency	4: Φ 30	3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5ES431 ● LAY5ES442 ● LAY5ES435 ● LAY5ES445	
	E: Plastic	S: Emergency	5: Φ 40	3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5ES531 ● LAY5ES542 ● LAY5ES535 ● LAY5ES545	
	E: Plastic	S: Emergency	6: Φ 60	3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	● LAY5ES631 ● LAY5ES642 ● LAY5ES635 ● LAY5ES645	

LAY5 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Two-head Button — Unit: MM

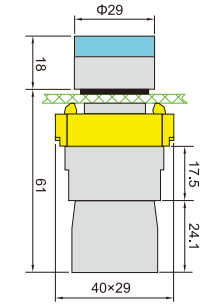
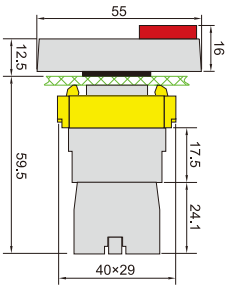
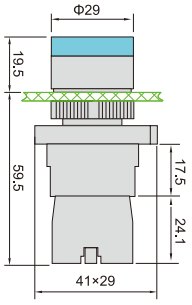
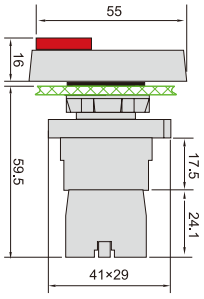
Name	Material	Type	Head	No.of head	NO + NC	Reference	Dimension
LAY5	☐	☐	☐	☐	☐		
	B: Metal	L8: Two-head	3: Flush button	2: 2	5: 1NO+1NC	LAY5BL8325	
	B: Metal	L8: Two-head	4: One high, one low	2: 2	5: 1NO+1NC	LAY5BL8425	

LAY5 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Illuminated Pushbutton Switches — Unit: MM

Name	Material	Type	Color	Voltage	NO + NC	Light	Reference	Dimension
LAY5	□	□	□	⊡	□	⊡		
	B: Metal	W3: Flush	1: White 3: Green 4: Red 5: Yellow 6: Blue 7: Pure white 8: Pure blue	T:6V B:24V F:110V M:220V Q:380V	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	N: Neon L: LED Blank: Filament	○ LAY5BW31*5* ● LAY5BW33*1* ● LAY5BW34*2* ● LAY5BW35*5* ● LAY5BW36*5* ● LAY5BW37*5* ● LAY5BW38*5*	
								
	B: Metal	W8: Two head	4: One high one low	T:6V B:24V F:110V M:220V Q:380V	5: 1NO+1NC	N: Neon L: LED Blank: Filament	LAY5BW84*5*	
								
	E: Plastic	W3: Flush	1: White 3: Green 4: Red 5: Yellow 6: Blue 7: Pure white 8: Pure blue	T:6V B:24V F:110V M:220V Q:380V	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	N: Neon L: LED Blank: Filament	○ LAY5EW31*5* ● LAY5EW33*1* ● LAY5EW34*2* ● LAY5EW35*5* ● LAY5EW36*5* ● LAY5EW37*5* ● LAY5EW38*5*	
								
	E: Plastic	W8: Two head	4: One high one low	T:6V B:24V F:110V M:220V Q:380V	5: 1NO+1NC	N: Neon L: LED Blank: Filament	LAY5EW84*5*	
								

Note: Supplier voltage code: T:6V, B:24V, F:110V, M:220V, N:230V, Q:380V
The pure white and pure blue are only available for LED lamp.

LAY5 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Indication Lamp

Unit: MM

Name	Material	Type	Voltage	Color	Light	Reference	Dimension
LAY5	☐	☐	⊡	☐	⊡		



B: Metal

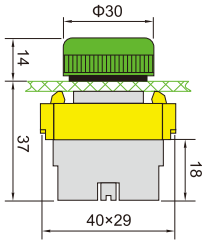
V: Indication

T:6V
B:24V
F:110V
M:220V
Q:380V

1: White
3: Green
4: Red
5: Yellow
6: Blue
7: Pure white
8: Pure blue

N: Neon
L: LED
Blank: Filament

- ○ LAY5BV*1*
- ● LAY5BV*3*
- ● LAY5BV*4*
- ● LAY5BV*5*
- ● LAY5BV*6*
- ○ LAY5BV*7*
- ● LAY5BV*8*



Base

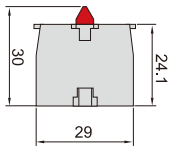
Name	Type	Contact	Reference	Dimension
LAY5	☐	☐		



BE: Auxiliary contact

101: 1NO
102: 1NC
103: 2NO
104: 2NC
105: 1N0+1NC

- LAY5BE101
- LAY5BE102
- LAY5BE103
- LAY5BE104
- LAY5BE105



Note: Supplier voltage code: T:6V, B:24V, F:110V, M:220V, N:230V, Q:380V
The pure white and pure blue are only available for LED lamp.

LAY7 Pushbutton Switches

Standard: IEC 60947-5

Function

LAY7 series of pushbutton switches provide:

□ Control and indicate the status of the circuit







Technical Data

Usage mode		Rated valve		
AC-15	Rated voltage (Ue) V	660	380	220
	Rated current (Ie) A	1.1	2	3.3
DC-13	Rated voltage (Ue) V	440	220	110
	Rated current (Ie) A	0.25	0.5	1
Mechanical endurance 10^5		30 (Flush type), 10 (Illuminated)		
		0.5 (Emergency stop, Selective-type, Key-tpye		
Electric endurance 10^5		6 (Flush type), 1 (Illuminated)		
		0.5 (Emergency stop, Selective-type, Key-tpye		
Rated thermal current I^{th} A		10		
Operation frequency T/h		1200		
Contact resistance mΩ		≤50		
Before board protect degree		IP55		
Illuminated pushbutton				
Power supplier voltage		Filament lamp	Neon lamp	LED
Working voltage (Ue)V		6, 12, 24	110, 220, 380	6, 12, 24
Lifetime h		≥1000	≥2000	≥3000

Working Condition

Temperature	-5℃~+40℃
Ralative humidity	≤50%(40℃) 90%(20℃)
Above sea level	≤2000m
Pollution grade	3

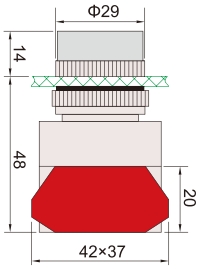
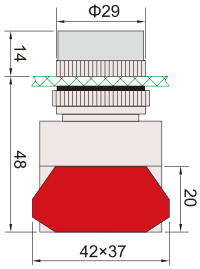
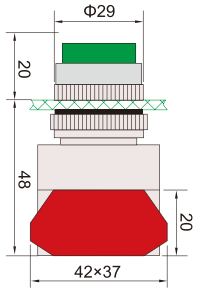
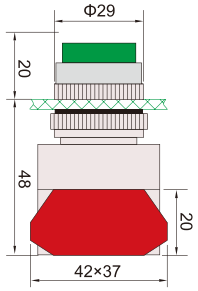
LAY7 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Flush Button

Unit: MM

Name	NO + NC	Type	Color	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐		
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	BN: Momentary	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	2: Φ 22 3: Φ 25 4: Φ 30	○ LAY711BN12 ● LAY711BN22 ● LAY711BN32 ● LAY711BN42 ● LAY711BN52 ● LAY711BN62	
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	BNZS: Maintained	3: Green 4: Red	2: Φ 22 3: Φ 25 4: Φ 30	● LAY711BNZS32 ● LAY711BNZS42	
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	GN: Momentary	3: Green 4: Red	2: Φ 22 3: Φ 25 4: Φ 30	● LAY711GN32 ● LAY711GN42	
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	GNZS: Maintained	3: Green 4: Red	2: Φ 22 3: Φ 25 4: Φ 30	● LAY711GNZS32 ● LAY711GNZS42	

LAY7 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Flush Button

Unit: MM

Name	NO + NC	Type	Color	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐		



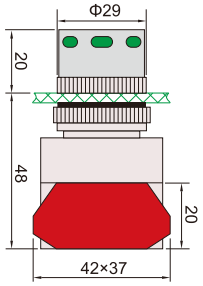
10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

JN: Full protection

3: Green
4: Red

2: Φ 22
3: Φ 25
4: Φ 30

- LAY711JN32
- LAY711JN42



Selective Switches

Unit: MM

Name	NO + NC	Type	Operation	Color	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐	☐		



10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

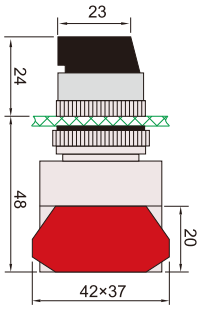
X: Selective button with short handle

20:2p C R
21:2p C R
30:3p L C R
31:3p L C R
33:3p L C R

2: Black
3: Green
4: Red

2: Φ 22
3: Φ 25
4: Φ 30

- LAY711X2022
- LAY711X2132
- LAY711X3042
- LAY711X3122
- LAY720X3022





10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

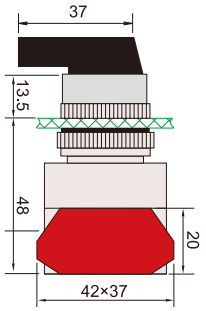
XB: Selective button with long handle

20:2 C R
21:2 C R
30:3 L C R
31:3 L C R
33:3 L C R

2 : Black
3 : Green
4 : Red

2: Φ 22
3: Φ 25
4: Φ 30

- LAY711XB2022
- LAY711XB2132
- LAY711XB3042
- LAY720XB3022
- LAY720XB3322



LAY7 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Key-operated Selective Switches

Unit: MM

Name	NO + NC	Type	Operation	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐		



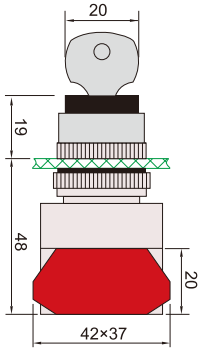
10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

Y: Key-operated

20:2p C R
21:2p C R
30:3p L C R
31:3p L C R
33:3p L C R

2: Φ 22
3: Φ 25
4: Φ 30

LAY711Y202
LAY711Y212
LAY711Y302
LAY711Y312
LAY720Y332



Mushroom Button

Unit: MM

Name	NO + NC	Type	Color	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐		



10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

M: Momentary

3: Green
4: Red

2: Φ 22
3: Φ 25
4: Φ 30

● LAY711M32
● LAY711M42



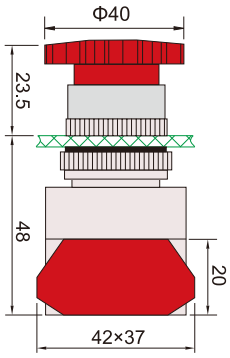
10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

MZS: Maintained

3: Green
4: Red

2: Φ 22
3: Φ 25
4: Φ 30

● LAY711MZS32
● LAY711MZS42

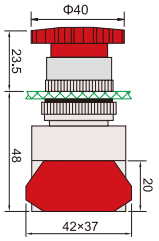


LAY7 Pushbutton Switches

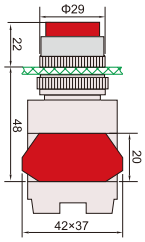
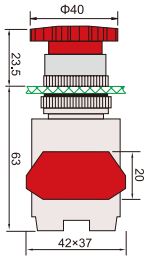
Standard: IEC 60947-5

Order Information

Emergency Stop Button — Unit: MM

Name	NO + NC	Type	Color	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐		
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	ZS:Emergency	3: Green 4: Red	2: Φ22 3: Φ25 4: Φ30	● LAY710ZS32 ● LAY701ZS42 ● LAY711ZS32 ● LAY711ZS42	

Illuminated Pushbutton Switches — Unit: MM

Name	NO + NC	Type	Color	Voltage	Installation	Light	Reference	Dimension
LAY7	☐	☐	☐	⊡	☐	⊡		
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	D: Momentary (Illuminated)	3: Green 4: Red 5: Yellow 6:Blue 7:Pure white 8:Pure blue	T: 6V B: 24V F: 110V M: 220V Q: 380V	2: Φ22 3: Φ25 4: Φ30	N: Neon L: LED Blank: Filament	● LAY711D3*2* ● LAY711D4*2* ● LAY711D5*2* ● LAY711D6*2* ○ LAY711D7*2* ● LAY711D8*2*	
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	DZS: Maintained (Illuminated)	3: Green 4: Red 5: Yellow 6:Blue 7:Pure white 8:Pure blue	T: 6V B: 24V F: 110V M: 220V Q: 380V	2: Φ22 3: Φ25 4: Φ30	N: Neon L: LED Blank: Filament	● LAY711DZS3*2* ● LAY711DZS4*2* ● LAY711DZS5*2* ● LAY711DZS6*2* ○ LAY711DZS7*2* ● LAY711DZS8*2*	
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	DM: Momentary (Illuminated)	3: Green 4: Red	T: 6V B: 24V F: 110V M: 220V Q: 380V	2: Φ22 3: Φ25 4: Φ30	N: Neon L: LED Blank: Filament	● LAY711DM3*2* ● LAY711DM4*2*	
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	DMZS: Maintained (Illuminated)	3: Green 4: Red	T: 6V B: 24V F: 110V M: 220V Q: 380V	2: Φ22 3: Φ25 4: Φ30	N: Neon L: LED Blank: Filament	● LAY711DMZS3*2* ● LAY711DMZS4*2*	

Note: Supplier voltage code: T:6V, B:24V, F:110V, M:220V, N:230V, Q:380V

The pure white and pure blue are only available for LED lamp.

LAY7 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Illuminated Selective Switches

Unit: MM

Name	NO + NC	Type	Operation	Color	Voltage	Install	Light	Reference	Dimension
LAY7	☐	☐	☐	☐	☒	☐	☒		



10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

XD: Selective (Illuminated)

20:2p C R

30:3p L C R

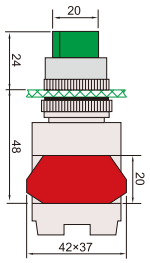
3: Green
4: Red

T: 6V
B: 24V
F: 110V
M:220V
Q: 380V

2: Φ 22
3: Φ 25
4: Φ 30

N: Neon
L: LED
Blank: Filament

- LAY711XD203*2*
- LAY711XD204*2*
- LAY711XD303*2*
- LAY711XD304*2*



Indication Lamp

Unit: MM

Name	Type	Color	Voltage	Install	Reference	Dimension
LAY7	☐	☐	☒	☐		



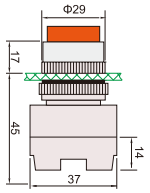
XD1: Filament
XD2: Neon
XD3: LED

1: White
3: Green
4: Red
5: Yellow
6: Blue
7: Pure white
8: Pure blue

T: 6V
B: 24V
F: 110V
M:220V
Q: 380V

2: Φ 22

- ○ LAY7XD11*2
- LAY7XD23*2
- LAY7XD34*2
- LAY7XD15*2
- LAY7XD26*2
- ○ LAY7XD37*2
- LAY7XD38*2



Base

Unit: MM

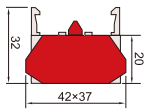
Name	Type	Contact	Reference	Dimension
LAY7	☐	☐		



BE: Auxiliary contact

101: 1NO
102: 1NC
103: 2NO
104: 2NC
105: 1N0+1NC

- LAY7BE101
- LAY7BE102
- LAY7BE103
- LAY7BE104
- LAY7BE105



Note: Supplier voltage code: T:6V, B:24V, F:110V, M:220V, N:230V, Q:380V
The pure white and pure blue are only available for LED lamp.

LAY8 Pushbutton Switches

Standard: IEC 60947-5

Function

LAY8 series of pushbutton switches provide:

□ Control and indicate the status of the circuit







Technical Data

Usage mode		Rated valve		
AC-15	Rated voltage (Ue) V	660	380	220
	Rated current (Ie) A	1.5	2.5	4.5
DC-13	Rated voltage (Ue) V	440	220	110
	Rated current (Ie) A	0.2	0.4	0.8
Mechanical endurance 105		30 Flush type 3 Selective , 0.5 Emergency stop,Key-tpye		
Electric endurance 105		6(Flush type) 1(Illuminated , 0.5 Emergency stop, Key-tpye		
Rated thermal current(Ith)A		10		
Contact resistance mΩ		≤ 50		
Before board protect degree		IP55		

Illuminated pushbutton									
Rated working voltage(Ue)V	6	12	24	36	48	110	220	230	380
Power supply	AC,DC						AC		
Rated working current (Ie)mA	≤ 50						≤ 20		

Working Condition

Temperature	-5℃~+40℃
Ralative humidity	≤ 50%(40℃) 90%(20℃)
Above sea level	≤2000m
Pollution grade	3

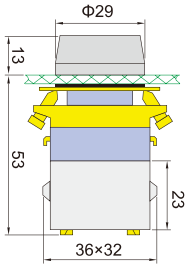
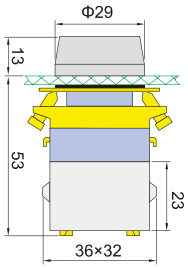
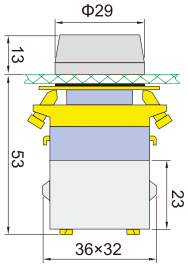
LAY8 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Flush Button

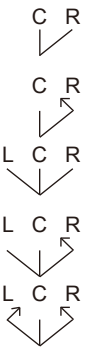
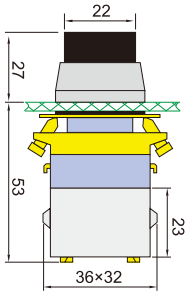
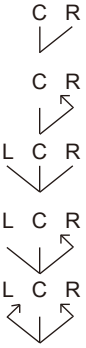
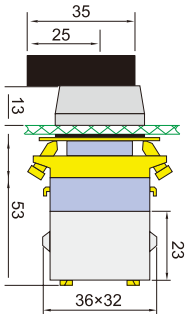
Unit: MM

Name	NO + NC	Type	Color	Reference	Dimension
LAY8	☐	☐	☐		
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	BN: Momentary	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	○ LAY811BN1 ● LAY811BN2 ● LAY811BN3 ● LAY811BN4 ● LAY811BN5 ● LAY811BN6	
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	BNZS: Maintained	3: Green 4: Red 5: Yellow	● LAY811BNZS3 ● LAY811BNZS4 ● LAY811BNZS5	
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	S: Waterproof	3: Green 4: Red 5: Yellow	● LAY811S3 ● LAY811S4 ● LAY811S5	

LAY8 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Selective Switches						Unit: MM	
Name	NO + NC	Type	Operation		Color	Reference	Dimension
LAY8	☐	☐	☐		☐		
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	X: Selective button with short handle	20:2p 21:2p 30:3p 31:3p 33:3p		2: Black 3: Green 4: Red	● LAY811X202 ● LAY811X213 ● LAY811X304 ● LAY811X312 ● LAY820X332	
	10: 1NO 01: 1NC 20: 2NO 02: 2NC 11: 1NO+1NC	XB: Selective button with long handle	20:2p 21:2p 30:3p 31:3p 33:3p		2: Black 3: Green 4: Red	● LAY811XB202 ● LAY811XB213 ● LAY811XB304 ● LAY811XB312 ● LAY820XB332	

LAY8 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Key-operated Selective Switch

Unit: MM

Name	NO + NC	Type	Operation	Reference	Dimension
LAY8	☐	☐	☐		

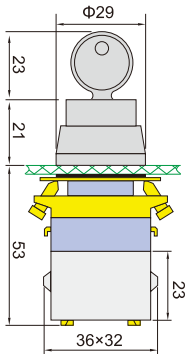


10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

Y: Key-operated

20:2p C R
21:2p C R
30:3p L C R
31:3p L C R
33:3p L C R

LAY811Y20
LAY811Y21
LAY820Y30
LAY811Y31
LAY811Y33



Mushroom Button

Unit: MM

Name	NO + NC	Type	Color	Reference	Dimension
LAY8	☐	☐	☐		

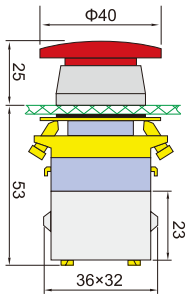


10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

M: Momentary

3: Green
4: Red

● LAY811M3
● LAY811M4



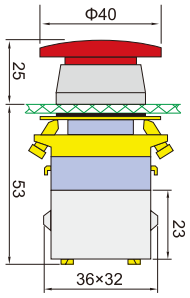


10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

MZS: Maintained

3: Green
4: Red

● LAY811MZS3
● LAY811MZS4



LAY8 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Emergency Stop Button

Unit: MM

Name	NO + NC	Type	Color	Reference	Dimension
LAY8	☐	☐	☐		

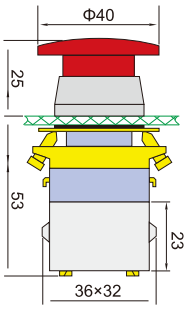


10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

ZS: Emergency

3: Green
4: Red

- LAY811ZS3
- LAY811ZS4



Illuminated Pushbutton Switches

Unit: MM

Name	NO + NC	Type	Color	Voltage	Power	Reference	Dimension
LAY8	☐	☐	☐	⊛	☐		



10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

D: Momentary (Illuminated)

3: Green
4: Red
5: Yellow
6:Blue
7:Pure white
8:Pure blue

T: 6V
B: 24V
F: 110V
M: 220V
Q: 380V

2: AC/DC
4: AC

- LAY811D3*4
- LAY811D4*4
- LAY811D5*2
- LAY811D6*2
- LAY811D7*2
- LAY811D8*2



10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

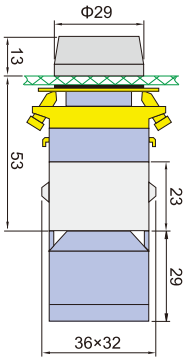
DZS: Maintained (Illuminated)

3: Green
4: Red
5: Yellow
6:Blue
7:Pure white
8:Pure blue

T: 6V
B: 24V
F: 110V
M: 220V
Q: 380V

2: AC/DC
4: AC

- LAY811DZS3*4
- LAY811DZS4*4
- LAY811DZS5*2
- LAY811DZS6*2
- LAY811DZS7*4
- LAY811DZS8*4





10: 1NO
01: 1NC
20: 2NO
02: 2NC
11: 1NO+1NC

DS:Waterproof (Illuminated)

3: Green
4: Red
5: Yellow
6:Blue
7:Pure white
8:Pure blue

T: 6V
B: 24V
F: 110V
M: 220V
Q: 380V

2: AC/DC
4: AC

- LAY811DS3*4
- LAY811DS4*4
- LAY811DS5*2

Note:Supplier voltage code: T:6V, B:24V, F:110V, M:220V, N:230V, Q:380V

The pure white and pure blue are only available for LED lamp.

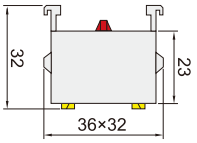
LAY8 Pushbutton Switches

Standard: IEC 60947-5

Order Information

Base

Unit: MM

Name	Type	Contact	Reference	Dimension
LAY8	☐	☐		
	BE: Auxiliary contact	101: 1NO	LAY8BE101	
		102: 1NC	LAY8BE102	
		103: 2NO	LAY8BE103	
		104: 2NC	LAY8BE104	
		105: 1N0+1NC	LAY8BE105	

RT16 Fuse

Standard: IEC 60269

Function

RT16 fuse provide:

- Protection of circuits against overload current
- Protection of circuits against short-circuit current





Order Information

Fuse-link	Rate current In(A)	Suitable fuse bases	Weight(g)	Reference
RT16-00	2	RT16-00	170	RT16002
	4			RT16004
	6			RT16006
	8			RT16008
	10			RT160010
	12			RT160012
	16			RT160016
	20			RT160020
	25			RT160025
	32			RT160032
	40			RT160040
	50			RT160050
	63			RT160063
	80			RT160080
	100			RT1600100
	125			RT1600125
	160			RT1600160
RT16-1	80	RT16-1	450	RT16180
	100			RT161100
	125			RT161125
	160			RT161160
	200			RT161200
	250			RT161250
RT16-2	125	RT16-2	660	RT162125
	160			RT162160
	200			RT162200
	250			RT162250
	300			RT162300
	315			RT162315
	355			RT162355
	400			RT162400
RT16-3	315	RT16-3	850	RT163315
	355			RT163355
	400			RT163400
	450			RT163450
	500			RT163500
	630			RT163630

RT16 Fuse

Standard: IEC 60269



Order Information

Fuse Base	Rate current In(A)	Material	Weight(g)	Reference
RT16-00	160	Ceramic	200	RT1600ZT
		Resin		RT1600ZS
RT16-1	250	Ceramic	700	RT161ZT
		Resin		RT161ZS
RT16-2	400	Ceramic	1150	RT162ZT
		Resin		RT162ZS
RT16-3	630	Ceramic	1280	RT163ZT
		Resin		RT163ZS

Technical Data

Rated working current	2-630A
Rated operation voltage	500/660V
Rated breaking capacity	120KA(500V), 50KA(660V)



Accessory-puller

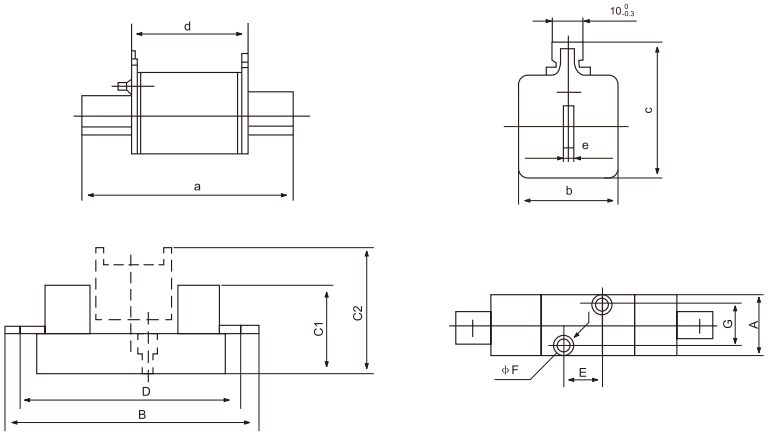
Material	Usage	Reference
ABS(frame resistance)	Assemble and replace RT16 fuse	RT16C

RT16 Fuse

Standard: IEC 60269

Overall Dimensions

Unit: mm



Type	RT16-00	RT16-1	RT16-2	RT16-3
a	78.5	135	150	150
b	29	48	58	67
c	57	62	72	85
d	49	67	67	67
e	6	6	6	6
A	30	58	64	64
B	120	200	250	250
C1	61	83	99	105
C2	85	96	112	120
D	100	175	200	210
E	25	25	25	25
F	7.5	10.5	10.5	10.5
G	——	30	30	30

RT18 Fuse

Standard: IEC 60269

Function

RT18 fuse provide:

- Protection of circuits against overload current
- Protection of circuits against short-circuit current





Order Information

Cylindrical Fuse	Rate current In(A)	Weight(g)	Reference
RT18-32	2	8	RT1810382
	4		RT1810384
	6		RT1810386
	8		RT1810388
	10		RT18103810
	12		RT18103812
	16		RT18103816
	20		RT18103820
	25		RT18103825
	32		RT18103832
RT18-63	2	20	RT1814512
	4		RT1814514
	6		RT1814516
	8		RT1814518
	10		RT18145110
	12		RT18145112
	16		RT18145116
	20		RT18145120
	25		RT18145125
	32		RT18145132
	40		RT18145140
	50		RT18145150
	63		RT18145163

RT18 Fuse

Standard: IEC 60269



Order Information

Holder of fuse	Pole	Rate current In(A)	Note	Weight (g)	Reference
RT18-32X	1P	32	Material:Resin	82	RT1832ZXB
	2P		With Indicator		RT1832Z2XB
	3P				RT1832Z3XB
RT18-32	1P	32	Material:Resin	82	RT1832ZB
	2P		Without Indicator		RT1832Z2B
	3P				RT1832Z3B
RT18-32X	1P	32	Material:Nylon	82	RT1832ZX
	2P		With Indicator		RT1832Z2X
	3P				RT1832Z3X
RT18-32	1P	32	Material:Nylon	82	RT1832Z
	2P		Without Indicator		RT1832Z2
	3P				RT1832Z3
RT18-63X	1P	63	Material:Resin	206	RT1863ZXB
	2P		With Indicator		RT1863Z2XB
	3P				RT1863Z3XB
RT18-63	1P	63	Material:Resin	206	RT1863ZB
	2P		Without Indicator		RT1863Z2B
	3P				RT1863Z3B

Technical Data

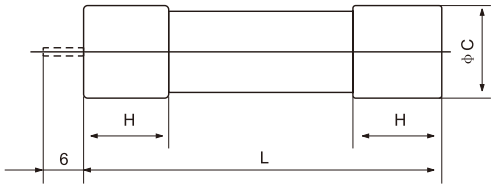
Rated working current	2-63A
Rated operation voltage	380V
Rated breaking capacity	100KA

RT18 Fuse

Standard: IEC 60269

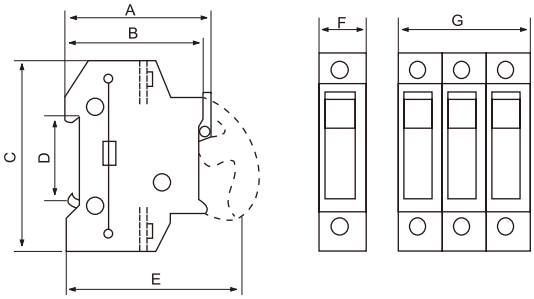
Overall Dimensions

Unit: mm



Cylindrical Fuse

Type	Size	L	C	Hmax
RT18-32	10×38	38±0.6	10.3±0.1	10.5
RT18-63	14×51	$51^{+0.6}_{-1.0}$	14.3±0.1	13.8



Holder of fuse

Type	A	B	C	D	E	F	G
RT18-32	63	60	79	35	80	18	54
RT18-63	78	76	103	35	110	25	75

Industrial Plugs&Sockets Overview



CDPM Moving Industrial plugs 261

Pole: 2P+E~3P+N+E
Voltage:110~415V
Current:16,32,63,125A



CDP Fixed Industrial Plugs 262

Pole: 2P+E~3P+N+E
Voltage:110~415V
Current:16,32,63,125A



CDSM Moving Industrial Sockets 263

Pole: 2P+E~3P+N+E
Voltage:110~415V
Current:16,32,63,125A



CDSF Fixed Industrial Sockets 264

Pole: 2P+E~3P+N+E
Voltage:110~415V
Current:16,32,63,125A



CDPS Multi-function Plugs and Sockets 265

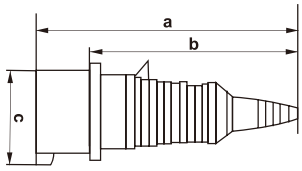
Pole: 2P+E
Voltage:110V, 230V
Current:16A

CDPM Moving Industrial Plugs

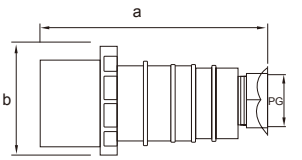
Standard: IEC 60309-1-2

Moving Industrial Plugs

	Pole No.	IP	Nominal voltage(V)	Nominal current(A)	Reference
	2P+E	44	110~130	16	CDPM316IP441
				32	CDPM332IP441
	2P+E	44	230~250	16	CDPM316IP44
				32	CDPM332IP44
	3P+E	44	400~415	16	CDPM416IP44
				32	CDPM432IP44
	3P+N+E	44	230~400	16	CDPM516IP44
			240~415	32	CDPM532IP44
	2P+E	67	230-250	63	CDPM363IP67
				125	CDPM3125IP67
	3P+E	67	400-415	63	CDPM463IP67
				125	CDPM4125IP67
	3P+N+E	67	400-415	63	CDPM563IP67
				125	CDPM5125IP67



	16Amp			32Amp		
Poles	3	4	5	3	4	5
a	142	142	169	178	178	178
b	105	105	132	132	132	137
c	47	53	61	63	63	70



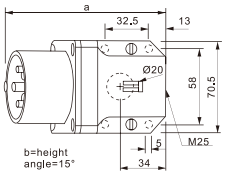
	63Amp			125Amp		
Poles	3	4	5	3	4	5
a	230	230	230	295	295	295
b	109	109	109	124	124	124
c	36	36	36	50	50	50

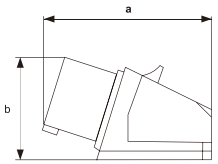
CDP Fixed Industrial Plugs

Standard: IEC 60309-1-2

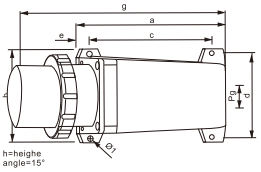
Fixed Industrial Plugs

	Pole No.	IP	Nominal voltage(V)	Nominal current(A)	Reference
	2P+E	44	110~130	16	CDP316IP441
				32	CDP332IP441
	2P+E	44	230~250	16	CDP316IP44
				32	CDP332IP44
	3P+E	44	400~415	16	CDP416IP44
				32	CDP432IP44
	3P+N+E	44	230~400	16	CDP516IP44
			240~415	32	CDP532IP44
	2P+E	67	230~250	63	CDP363IP67
	3P+E	67	400~415	63	CDP463IP67
	3P+N+E	67	400~415	63	CDP563IP67





	16Amp			32Amp		
Poles	3	4	5	3	4	5
a	151	152	160	189	189	194
b	66	76	90	90	90	90



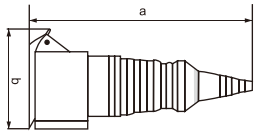
	63Amp		
Poles	3	4	5
a	193	193	193
b	122	122	122
c	157	157	157
d	109	109	109
e	19	19	19
f	6	6	6
g	288	288	288
h	127	127	127
PG	29	29	29

CDSM Moving Industrial Sockets

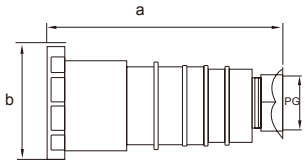
Standard: IEC 60309-1-2

Moving Industrial Sockets

	Pole No.	IP	Nominal voltage(V)	Nominal current(A)	Reference
	 2P+E	44	110~130	16	CDSM316IP441
				32	CDSM332IP441
	 2P+E	44	230~250	16	CDSM316IP44
				32	CDSM332IP44
	 3P+E	44	400~415	16	CDSM416IP44
				32	CDSM432IP44
	 3P+N+E	44	230~400	16	CDSM516IP44
			240~415	32	CDSM532IP44
	 2P+E	67	230~250	63	CDSM363IP67
				125	CDSM3125IP67
	 3P+E	67	400~415	63	CDSM463IP67
				125	CDSM4125IP67
	 3P+N+E	67	400~415	63	CDSM563IP67
				125	CDSM5125IP67



	16Amp			32Amp		
Poles	3	4	5	3	4	5
a	130	131	139	149	149	154
b	66	76	90	90	90	100



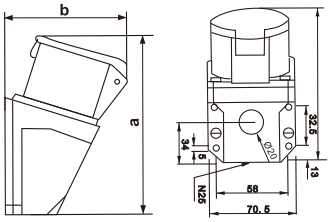
	63Amp			125Amp		
Poles	3	4	5	3	4	5
a	240	240	240	300	300	300
b	112	112	112	126	126	126
PG	36	36	36	50	50	50

CDSF Fixed Industrial Sockets

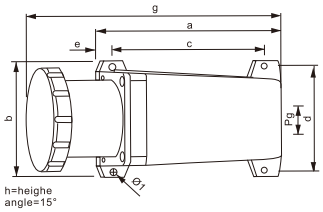
Standard: IEC 60309-1-2

Fixed Industrial Sockets

	Pole No.	IP	Nominal voltage(V)	Nominal current(A)	Reference
	2P+E	44	110~130	16	CDSF316IP441
				32	CDSF332IP441
	2P+E	44	230~250	16	CDSF316IP44
				32	CDSF332IP44
	3P+E	44	400~415	16	CDSF416IP44
				32	CDSF432IP44
	3P+N+E	44	230~400	16	CDSF516IP44
			240~415	32	CDSF532IP44
	2P+E	67	230~250	63	CDSF363IP67
				125	CDSF3125IP67
	3P+E	67	400~415	63	CDSF463IP67
				125	CDSF4125IP67
	3P+N+E	67	230~400	63	CDSF563IP67
			240~415	125	CDSF5125IP67



	16Amp			32Amp		
Poles	3	4	5	3	5	5
a	128	128	129	141	141	143
b	86	90	96	97	97	104
M	25	25	25	25	25	25



	63Amp			125Amp		
Poles	3	4	5	3	4	5
a	193	193	193	220	220	220
b	122	122	122	140	140	140
c	157	157	157	185	185	185
d	109	109	109	130	130	130
e	19	19	19	17	17	17
f	6	6	6	8	8	8
g	270	270	270	320	320	320
h	130	130	130	150	150	150
PG	29	29	29	36	36	36

CDPS Multi-function Plugs&Sockets

Standard: IEC 60309-1-2

Multi-function Plugs and Sockets



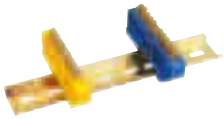






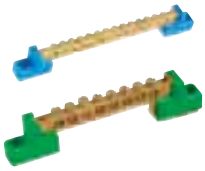
Pole No.	Input	Output	Nominal voltage(V)	Nominal current(A)	Reference
2P+E	1 Plug	2 socket	230	16	CDPS316230
2P+E	1 Plug	2 socket	110	16	CDPS316110
2P+E	1 Plug	3 socket	230	16	CDPS416230
2P+E	1 Plug	3 socket	110	16	CDPS416110

Copper Terminal Block Overview



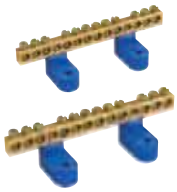
TB010 267

Hole:4, 6, 8, 10, 12, 14, 16
Hole diameter(mm):5.2, 6
Screw dimension(mm):M4*8, M5*10
Max current(A):100, 150



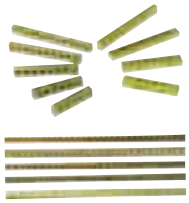
TB019 268

Hole:4, 6, 8, 10, 12, 14, 16
Hole diameter(mm):5.2, 6
Screw dimension(mm):M4*8, M5*10
Max current(A):100, 150



TB007 269

Hole:6, 8, 10, 12, 14, 16
Hole diameter(mm):5.2, 6
Screw dimension(mm):M4*8, M5*10
Max current(A):100, 150



TB043 270

Hole:78, 109, 116, 133
Hole diameter(mm):5~9
Screw dimension(mm):M4*8~M6*12
Max current(A):100~200



TB112 270

Hole:2x7, 2x15, 4x7, 4x11, 4x15
Hole diameter(mm):5.2
Screw dimension(mm):M4
Max current(A):125

CCF Series Cable Connector



Technical Data

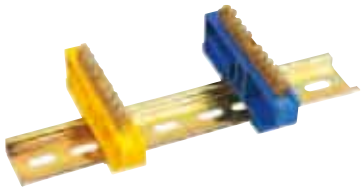
- Thread specification: International metric standard
- Material: Nylon 66
- Working temp.: -40℃~+100℃
- Max temp. in short time: +120℃.
- Installation: Standard threaded hole
- Colour: Black & gray

Order Information

Cabel range (mm)	Thread external diameter (mm)	Panel hole (mm)	Thread length (mm)	Spanner size A&F	Reference Black	Gray
7.6-4.6	12	12.5	8.5	18/19	CCFMG12IP68B	CCFMG12IP68W
10-6	16	16.5	15	22/22	CCFMG16IP68B	CCFMG16IP68W
14-9	20	20.5	15	27/27	CCFMG20IP68B	CCFMG20IP68W
18-13	25	25.5	15	33/33	CCFMG25IP68B	CCFMG25IP68W
25-18	32	33	15	41/41	CCFMG32IP68B	CCFMG32IP68W
30-24	40	41	20	50/50	CCFMG40IP68B	CCFMG40IP68W
41-30	50	51	22	62/62	CCFMG50IP68B	CCFMG50IP68W
51-40	63	64	25	75/75	CCFMG63IP68B	CCFMG63IP68W
7-3.5	7	12.5	8	17/19	---	CCFPG7IP54W
8-4.5	9	15.2	8.5	22/19	---	CCFPG9IP54W
10.5-6	11	18.6	9	24/22	---	CCFPG11IP54W
12.5-7.5	13.5	20.4	9.6	27/24	---	CCFPG135IP54W
14-8.5	16	22.5	10	30/27	---	CCFPG16IP54W
18-12.5	21	28.3	12	36/33	---	CCFPG21IP54W
25-18	29	37	15	46/41	---	CCFPG29IP54W
30-23	36	47	15	57/50	---	CCFPG36IP54W
39-30	42	54	15.5	64/62	---	CCFPG42IP54W
45-35	48	59.3	15.5	70/65	---	CCFPG48IP54W

TB010 Series Copper Terminal Block

Order Information



■ **TB0100609**

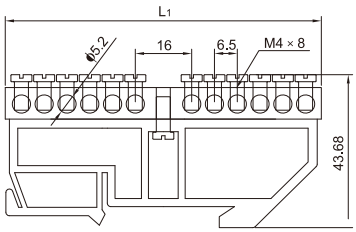
Holes	Cross section (mm)	Hole diameter (mm)	Installation dimension(mm) (L)	Overall dimensions (mm) (L1)	Reference
4	6 x 9	5.2	35x 7.5	88.5x 12.1	TB0100609W4*
6	6 x 9	5.2	35x 7.5	88.5x 12.1	TB0100609W6*
8	6 x 9	5.2	35x 7.5	88.5x 12.1	TB0100609W8*
10	6 x 9	5.2	35x 7.5	88.5x 12.1	TB0100609W10*
12	6 x 9	5.2	35x 7.5	90.5x 12.1	TB0100609W12*
14	6 x 9	5.2	35x 7.5	103.5x 12.1	TB0100609W14*
16	6 x 9	5.2	35x 7.5	116.5x 12.1	TB0100609W16*

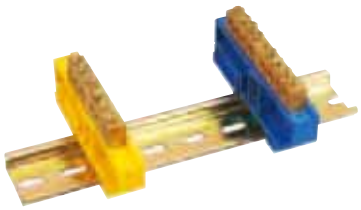
"*" means support color below:

Y=Yellow

B=Blue

Dimension **Unit:mm**





■ **TB0100812**

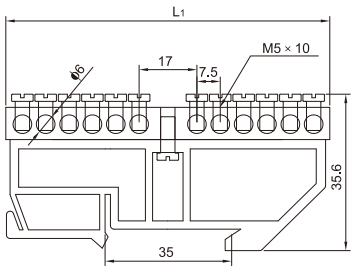
Holes	Cross section (mm)	Hole diameter (mm)	Installation dimension(mm) (L)	Overall dimensions (mm) (L1)	Reference
4	8 x 12	6	35x7.5	88.5x12.1	TB0100812W4*
6	8 x 12	6	35x7.5	88.5x12.1	TB0100812W6*
8	8 x 12	6	35x7.5	88.5x12.1	TB0100812W8*
10	8 x 12	6	35x7.5	88.5x12.1	TB0100812W10*
12	8 x 12	6	35x7.5	102x12.1	TB0100812W12*
14	8 x 12	6	35x7.5	117x12.1	TB0100812W14*
16	8 x 12	6	35x7.5	132x12.1	TB0100812W16*

"*" means support color below:

Y=Yellow

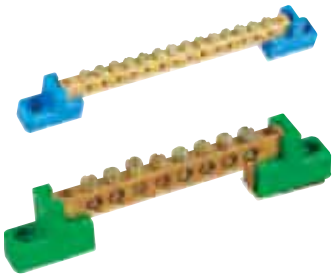
B=Blue

Dimension **Unit:mm**



TB019 Series Copper Terminal Block

Order Information



■ **TB0190609**

Holes	Cross section (mm)	Hole diameter (mm)	Installation dimension(mm) (L)	Overall dimensions (mm) (L1)	Reference
4	6 x 9	5.2	64.5	76.5 x12.5	TB0190609W4*
6	6 x 9	5.2	77.5	89.5 x12.5	TB0190609W6*
8	6 x 9	5.2	90.5	102.5 x12.5	TB0190609W8*
10	6 x 9	5.2	103.5	115.5 x12.5	TB0190609W10*
12	6 x 9	5.2	116.5	128.5 x12.5	TB0190609W12*
14	6 x 9	5.2	129.5	141.5 x12.5	TB0190609W14*
16	6 x 9	5.2	142.5	154.5 x12.5	TB0190609W16*

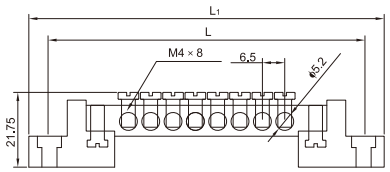
"*" means support color below:

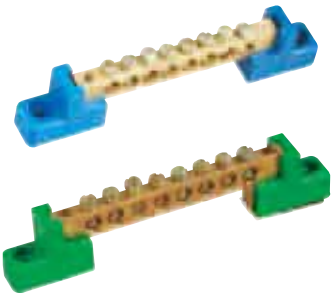
G=Green

B=Blue

Unit:mm

Dimension





■ **TB0190812**

Holes	Cross section (mm)	Hole diameter (mm)	Installation dimension(mm) (L)	Overall dimensions (mm) (L1)	Reference
4	8 x 12	6	71.5	84.5x12.5	TB0190812W4*
6	8 x 12	6	86.5	99.5x12.5	TB0190812W6*
8	8 x 12	6	101.5	114.5x12.5	TB0190812W8*
10	8 x 12	6	116.5	129.5x12.5	TB0190812W10*
12	8 x 12	6	131.5	144.5x12.5	TB0190812W12*
14	8 x 12	6	146.5	159.5x12.5	TB0190812W14*
16	8 x 12	6	161.5	174.5x12.5	TB0190812W16*

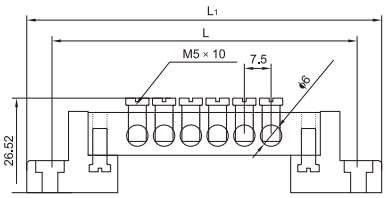
"*" means support color below:

G=Green

B=Blue

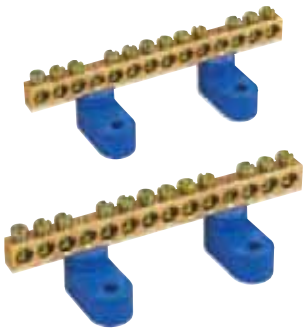
Dimension

Unit:mm



TB007 Series Copper Terminal Block

Order Information



■ TB0070609

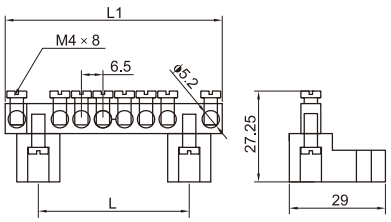
Holes	Cross section	Hole diameter (mm)	Installation dimension(mm) (L)	Overall dimensions (mm) (L1)	Reference
6	6 x 9	5.2	44.5	58.5 x 29	TB0070609W6*
8	6 x 9	5.2	44.5	65.5 x 29	TB0070609W8*
10	6 x 9	5.2	44.5	78.5 x 29	TB0070609W10*
12	6 x 9	5.2	44.5	91.5 x 29	TB0070609W12*
14	6 x 9	5.2	44.5	104.5 x 29	TB0070609W14*
16	6 x 9	5.2	44 5	117.5 x 29	TB0070609W16*

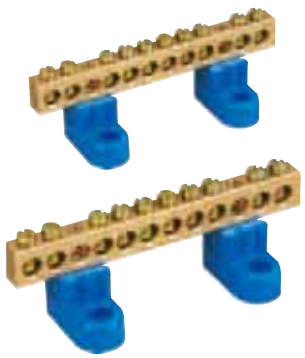
"*" means support color below:

G=Green

B=Blue

Dimension **Unit:mm**





■ TB0070812

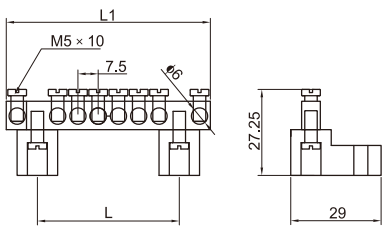
Holes	Cross section	Hole diameter (mm)	Installation dimension(mm) (L)	Overall dimensions (mm) (L1)	Reference
6	8 x 12	6	52.5	68.5 x 28.5	TB0070812W6*
8	8 x 12	6	52.5	77.5 x 28.5	TB0070812W8*
10	8 x 12	6	52.5	92.5 x 28.5	TB0070812W10*
12	8 x 12	6	52.5	107.5 x 28.5	TB0070812W12*
14	8 x 12	6	52.5	122.5 x 28.5	TB0070812W14*
16	8 x 12	6	52.5	137.5 x 28.5	TB0070812W16*

"*" means support color below:

G=Green

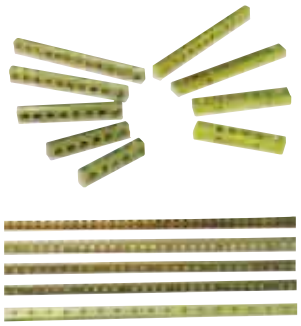
B=Blue

Dimension **Unit:mm**



TB112 Series Copper Terminal Blocks
TB043 Series Copper Terminal Blocks

Order Information



■ **TB043**

Holes	Cross section (mm)	Hole diameter (mm)	Screw dimension (mm)	Reference
78	16 x 16	9	M6*12	TB0431616W078
109	14 x 14	7	M6*12	TB0431414W109
116	10 x 10	6	M5*10	TB0431010W116
116	8 x 12	6.5	M5*10	TB0430812W116
116	8 x 10	6	M5*10	TB0430810W116
116	9 x 9	5.5	M5*10	TB0430909W116
133	7 x 9	5.2	M4*10	TB0430709W133
133	8 x 8	5.2	M4*8	TB0430808W133
133	6 x 9	5.2	M4*8	TB0430609W133
133	6 x 8	5	M4*8	TB0430608W133



■ **TB112**

line	Holes per line	Overall dimensions			Installation dimension(mm) (L)	Reference
		Length	Width	Height		
2	7	65	45	51	45 x M4	TB112W2P7
2	15	132	45	51	112 x M4	TB112W2P15
4	7	65	88	51	45 x M4	TB112W4P7
4	11	100	88	51	80 x M4	TB112W4P11
4	15	132	88	51	112 x M4	TB112W4P15

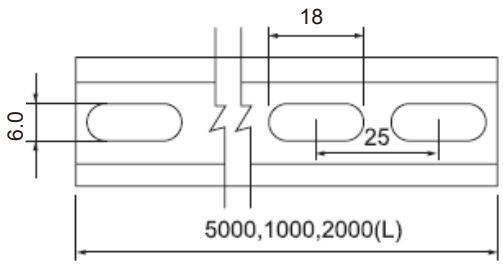


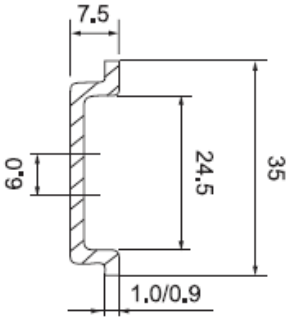
Order Information

Thickness(mm)	Length	Material	Reference
1.0	1000mm	Aluminum	CDIN02T1000
	2000MM	Aluminum	CDIN02T2000
	1000mm	Steel	CDIN12T1000
	2000MM	Steel	CDIN12T2000

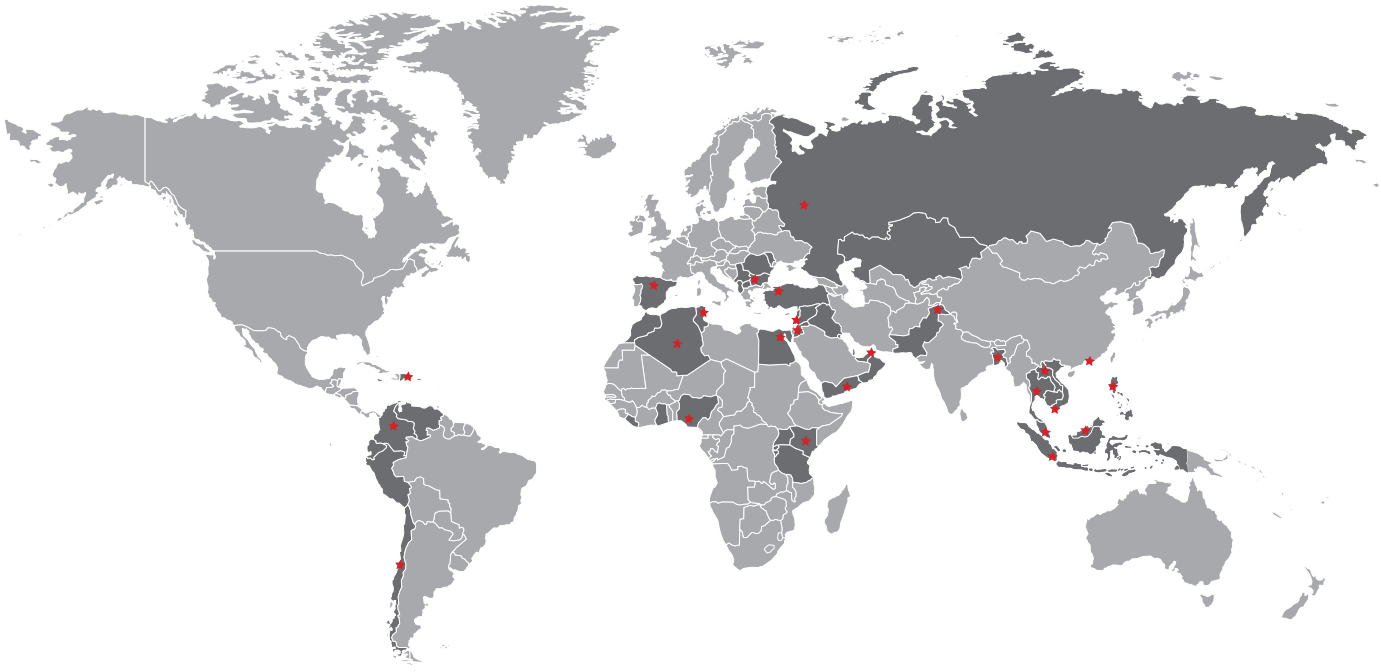
Overall Dimensions

Unit:mm





A Company to Serve You Where You Are



E-mail Address:*info.OBD@delixi-electric.com*

- **Algeria / Morocco**
  Phone: +213 5 600 600 10
- **Bangladesh**
  Phone: +88 017 1340 9132
- **Chile**
  Phone: +56-2-4822100
- **Colombia / Venezuela / Ecuador / Peru / Bolivia**
  Phone: +57 3212056531
- **Egypt**
  Phone: +20 100 011 3238 - +20 111 811 3546
- **Hong Kong**
  Phone: +852 63559321
- **Indonesia**
  Phone: +62 815 3314 2418
- **Kenya / Tanzania / Uganda / Rwanda / Burundi**
  Phone: +97150 5536433
- **Laos**
  Phone: +86 158 6807 8915
- **Malaysia**
  Phone: +601 93227688
- **Nigeria / Ghana / Liberia**
  Phone: +86 158 6807 8915
- **Cambodia**
  Phone: +86158 6807 8915
- **Pakistan**
  Phone: +92 300 8465 789
- **Philippines**
  Phone: +63 917 590 0027
- **Russia / Kazakhstan**
  Phone: +7 916 693 59 84
- **Santo Domingo / Trinidad and Tobago / Jamaica**
  Phone: +809 861 5803
- **Spain**
  Phone: +34 980 539 404
- **Thailand**
  Phone: +66 8515 51921
- **Tunisia**
  Phone: +216 73 820 910/911
- **Turkey**
  Phone: +90 532 427 67 94
- **Romania / Serbia / Bulgaria / Macedonia / Montenegro /Albania / Moldova**
  Phone: +359 885 506 705
- **Syria / Lebanon /Jordan /Iraq**
  Phone: +66 8515 51921
- **UAE / Qatar / Oman / Bahrain / Kuwait / Yemen**
  Phone: +97150 5536433
- **Vietnam**
  Phone: +00849 086 86939



Copyright @ delixi-electric Co., Ltd. Paper can be recycled

Jan.2012