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CEA[®]
2019

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CEA ELECTRIC CO.,LTD



CEA[®] ELECTRIC

**ALL Rivers Run into sea
Kindness in the World**





Brief Introduction

Founded in 1999, CEA Electric Co.,Ltd is being acknowledged as one of the most respected nationwide manufacturers and exporters of low voltage electrical apparatus in P.R of China.

The Group, comprising of 5 factories, owns a production area of 50,000m² and employs more than 1,000 staffs. During the past 13 years, we invested abundant resources in both research and development and employee training programs. The company was ranked in the front of 100 tops of wenzhou private enterprises. "CEA" is named as a famous trademark in domestic and overseas markets. Our company has took the lead in applying ISO9001 Quality Management System and ISO14001 Environmental Management System. Many products are certified under international certificate, such as CB, CE, BS, VDE, UL, SONCAP, CCC.

Currently, we have manufactured and exported more than 160 varieties of products, with over 2000 types of low voltage electrical apparatus including all kinds of LED lighting, Circuit Breakers, Contactors, Relays, Starters, Switches, Wire & Cable and Electrical Accessories etc. As a result of our high quality products and outstanding customer service, we have gained a global sales network reaching South East Asia, Middle East, South America, Africa, Europe.

We are fully aware of the fact that only "Versatile Staff, Distinctive Quality and Advanced Technology" enable us to survive and succeed in today's intensively competitive market. Hence, we will be with overall technology support, good service to meet the requirements of world.

Enquiries from both domestic and overseas customers are cordially welcomed. Just tell us your requirements and let us do the best for you.

Certifications

Contents



- Mini Circuit Breaker
- Earth Leakage Circuit Breaker
- Moulded Case Circuit Breaker
- Contactor
- Realy
- Fuse
- Meter
- Switch
- Tool
- Lighting
- Stablizer
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CEA ELECTRIC | www.ceaworld.com



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CEB45 Mini Circuit Breaker

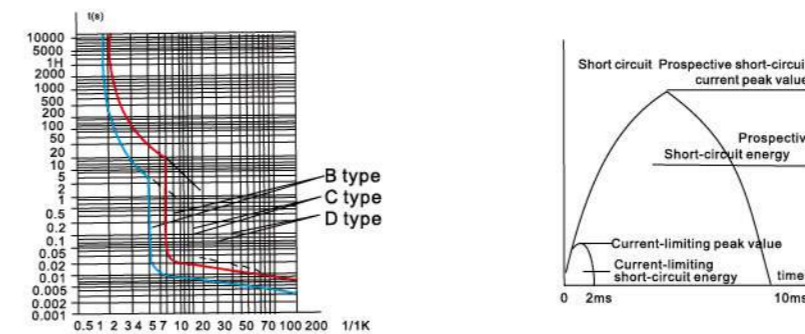
◆ Application

CEB45 series circuit breaker is used in lighting distribution system or motor distribution system for protecting overload and short-circuit in the system. The product is novel in structure, light in weight, reliable and excellent in performance. it has high breaking capacity, can trip quickly and its installation uses with guide, its case and items are adopted with high fire-resistant and shockproof plastics. The product with long life, is mainly used in AC 50Hz/60Hz single-pole 230V or two, three, four-pole 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The product complies with GB10963, IEC60898, BS3871.

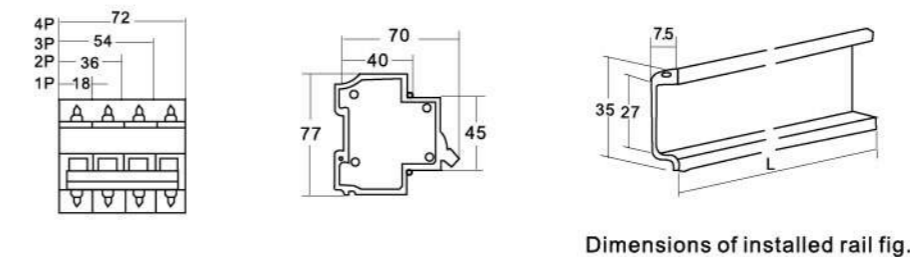
◆ Specifications

Type	Rated Current(A)	Pole No.	Voltage(V)	Breaking Capacity(A)
B	1,2,3,4,6,10,16,20,25,32,40A	1	230/415	6000
		2,3,4	400	
	50,63A	1	230/415	4500
		2,3,4	400	
C	1,2,3,4,6,10,16,20,25,32,40A	1	230/415	6000
		2,3,4	400	
	50,63A	1	230/415	4500
		2,3,4	400	
D	1,2,3,4,6,10,16,20,25,32,40A	1	230/415	4500
		2,3,4	400	
Weight(g)	1P	2P	3P	4P
	102	208	308	408

◆ Characteristic Curve



◆ Dimensions



CEB-100H Mini Circuit Breaker

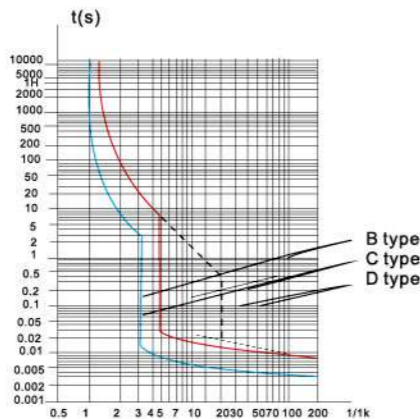
◆ Application

CEB-100H high breaking capacity circuit breaker is used for AC 50Hz/60Hz, single pole 230V, two, three, four poles 400V, for protecting the circuit that overload and short circuit may take place. It can be used in lighting and electric motor distribution system. Meanwhile it is applicable to an unfrequent switch over the electric apparatus and lighting circuit under normal condition. Breaking capacity is up to standard of IEC60947-2.

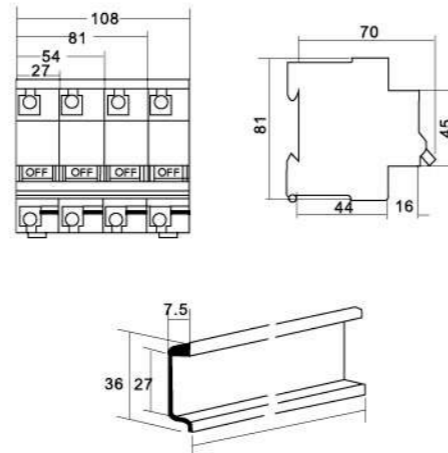
◆ Specifications

Rated Current	32,40,50,63,80,100A			
Rated Voltage	230/400V AC			
Electrical Life	6000 times			
Mechanical Life	20000 times(C.O.)			
No. of Pole	1P,2P,3P,4P			
Weight(g)	1P	2P	3P	4P
	180	360	540	720

◆ Characteristic Curve



◆ Dimensions



CEB-100H 2P



CEB-100H 4P

Auxiliary for Mini Circuit Breaker



SD

SD

OF

MX+OF

CEB1 Mini Circuit Breaker

◆ Application

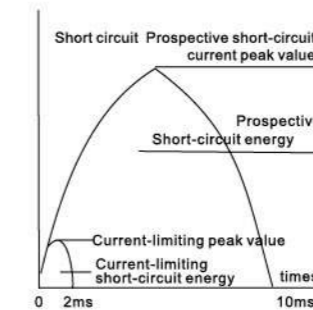
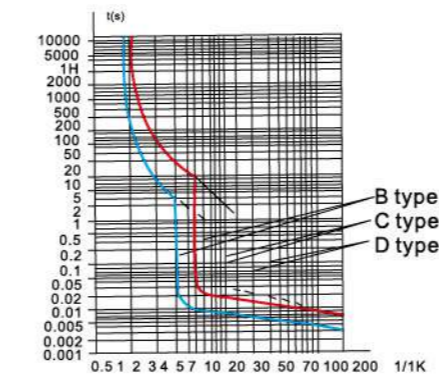
CEB1 series circuit breaker is used in lighting distribution system or motor distribution system for protecting overload and short-circuit. The product is novel in structure, light in weight, reliable and excellent in performance. It is mainly used in AC 50Hz/60Hz single-pole 240V or two, three, four-pole 415V circuit for overload and short-circuit protection as well as for unfrequent on and off switching electric equipment and lighting circuit in normal case. The product complies with GB10963, IEC60898, BS3871.

◆ Specifications

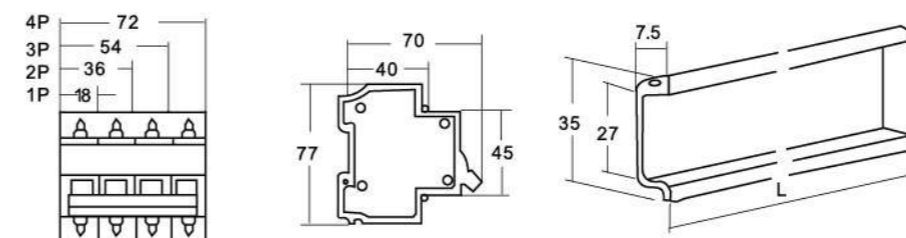
Rated Temperature	40°C			
Rated Voltage	240V/415V AC			
Rated Current	1,2,3,4,6,10,15,16,20,25,32,40,50,63A			
Electrical Life	6000 times			
Mechanical Life	20000 times			
Weight(g)	1P	2P	3P	4P
	102	208	308	408

CEB1				
Standard	Rated Current(A)	Pole No.	Voltage(V)	Breaking Capacity(A)
BS3871-1 IEC60898	1 to 40	1	240	4000
		2,3,4	415	4000
IEC60157-1	1 to 40	1	220/240	6000
		2,3,4	220/240	12000
		2,3,4	380/415	6000

◆ Characteristic Curve



◆ Dimensions



Dimensions of installed rail fig.



CEB1 1P



CEB1 3P

CEB60N Mini Circuit Breaker

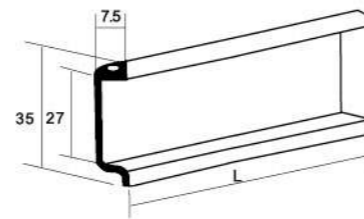
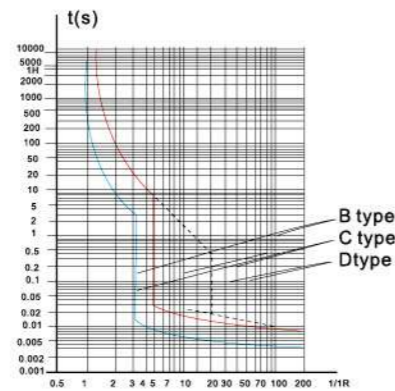
◆ Application

CEB60N have protective function of shortage and overload, and are used in lighting distribution system in industry, commerce and dwelling fractional electric motors. And they also have many merits of high protective grade(up to IP20), high reliable breaking capacity, sensitive action, convenient, multiple assembling, long life etc.They are mainly adapted to the circuit of AC 50Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit. Meanwhile, they are also used in turning on or off the electric apparatus and lighting circuit under the normal condition.

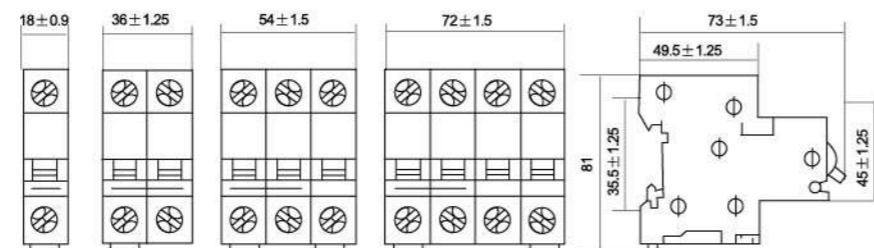
◆ Specifications

Pole No.	1P,2P,3P,4P
Rated Voltage	230V/400V
Electrical Life	4000times
Mechanical Life	10000times
Rated Current	1,2,3,4,6,10,16,20,25,32,40,50,63A
Protective Grade	IP20
Standard	IEC60898

◆ Characteristic Curve



◆ Dimensions



CEB65N Mini Circuit Breaker

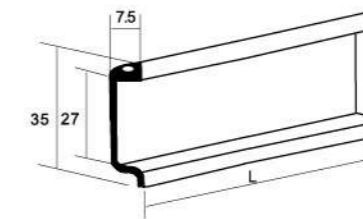
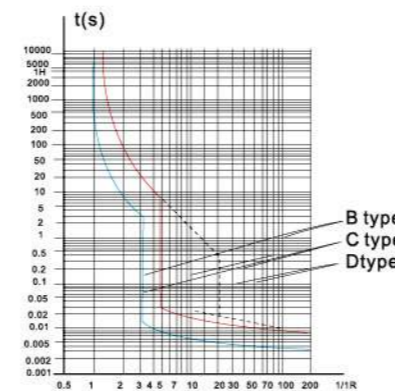
◆ Application

The series circuit breaker have protective function against short circuit and overload. And are used in lighting distribution system in industry, commerce and dwelling. That protect sfractional electric motor. They also have many merits of high breaking capacity, good reliability of sensitive action, convenient multi-pole assorting, long using life etc.They are mainly adapted to the circuit of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protectng overload and short circuit. Meanwhile, they are also used in turning on or off the electric apparatus and lighting circuit under normal condition. It conforms to IE60898.

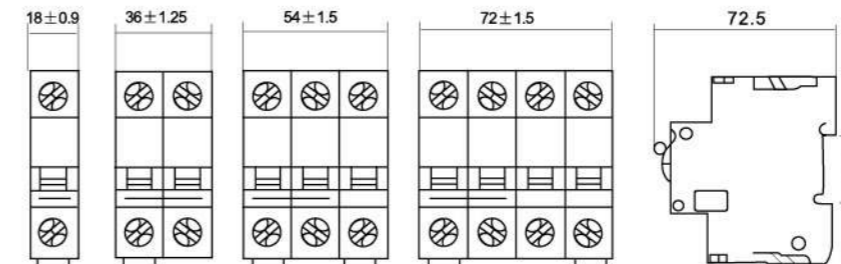
◆ Specifications

Pole No.	1P,2P,3P,4P	
Rated Current (A)	1,2,3,4,6,10,16,20,25,32,40	50,63
Breaking Capacity (A)	6000	4500
Rated Voltage(V)	230/400	
Rated Frequency	50/60Hz	
Electrical Life	6000times	
Mechanical Life	20000times	
Protection Degree	IP20	

◆ Characteristic Curve



◆ Dimensions



CEB30 Mini Circuit Breaker

◆ Application

The product is applicable to protect line conductor, overload and short-circuit of small size motors, is mainly for protection of circuits with AC 220V and 50Hz/60Hz, and for unfrequent conversion under normal conditions as well. Its action can be two pole with its only one pole volume and can be used as a leakage breaker by assembling with leakage protector.

◆ Specifications

Rated Voltage	230V
Rated Current	2,4,6,10,16,25,32A
Breaking Capacity	4500A
Electrical Life	6000times
Mechanical Life	20000times
Width Pole	P+N=18mm
Standard	IEC60898-87 GB10963-89 BS3871



CEB30

CEB250 Mini Circuit Breaker

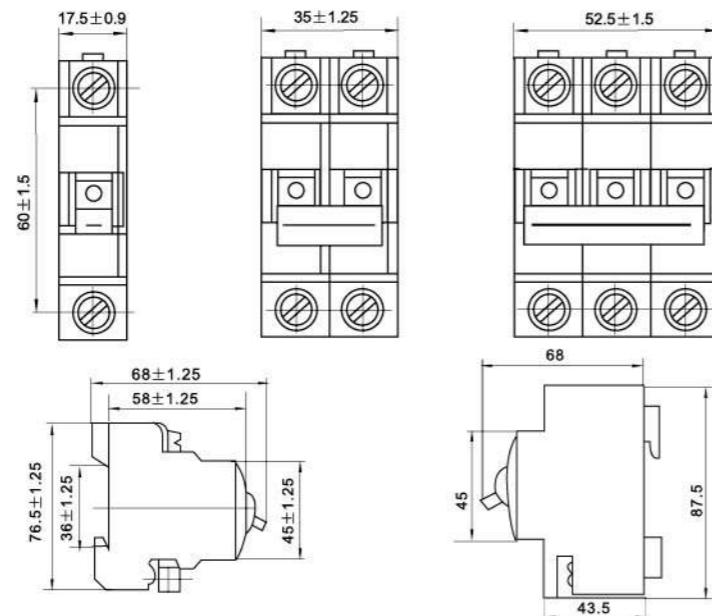
◆ Application

CEB250 mini circuit breaker has features of new structure,excellent performance,easy installation,high breaking capacity.It is mainly used for overload and short circuit protection of AC 50/60Hz,rated voltage of single pole up to 230V,rated current up to 63A and in distribution of illumination of industry,commerce and buildings.It conforms to IEC364,SSCP5.

◆ Specifications

Rated Current(A)	Pole N o.	Rated Voltage(V)	Rated Frequency(Hz)	Breaking Capacity(A)
2,3,4,6,10,15,16,2	1P	230V	50/60Hz	10KA
0,25,32,40,50,63A	2P, 3P	400V		

◆ Dimensions



CEB250 2P



CEB250 3P

CEB7N Mini Circuit Breaker

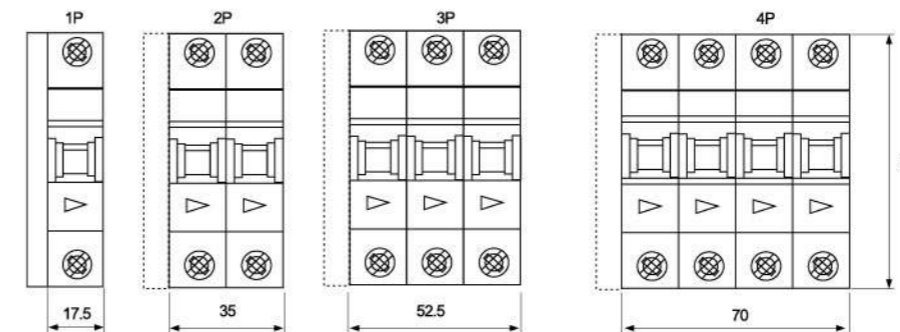
◆ Application

CEB7N have protective function of shortage and overload, and are used in lighting distribution system in industry, commerce and dwelling, and protect fractional electric motors. And they also have many merits of high protective grade(up to IP20), high breaking capacity, reliable sensitive action, convenient, multiple assembling, long life etc. They are mainly adapted to the circuit of AC 50Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit. Meanwhile, they are also used in turning on or off the electric apparatus and lighting circuit under the normal condition.

◆ Specifications

Standard	EN60898(1EC898)G810963-99
Rated Current	230/400V
Rated Breaking Capacity	10KA IEC60898(0.5-63A) 15KA IEC60947-2(0.5-63A)
Short Circuit Breaking Capacity of DC	Max.48V(ML7...,10KA)single pole Max.250V(ML7-DC,6KA)single pole
Characteristic Curve	C,D
Max.fuse That Can Be Connected to	100AgL(>10KA)
Selective Grade	3
Working Ambient Temperature	-5°C to+40°C
Enclosed Protective Class	IP40(Under mounting)
Mechanical Life	Not less than 8000 times
Electrical Life	Not less than 20000 times

◆ Dimensions



CEB7N 2P



CEB7N 3P



CEB7N 4P

CEX Mini Circuit Breaker



◆ Application

CEX mini circuit breaker is mainly suitable for overload and short circuit protection. It is especially used for illumination and distribution in industry and commerce etc. It has pleasing outlook & high breaking capacity, reliable performance, high inflammable resistance and shock resistance for long service life. It is within the circuit of AC 50/60Hz, rated voltage of single pole up to 240V, two, three or four poles up to 415V. It can also be used for an unfrequent change over of the circuit and illumination under normal conditions.

◆ Specifications

Rated Current (A)	Pole No.	Rated Voltage (V)	Breaking Capacity (KA)	Electrical Life (times)	Mechanical Life (times)
1,2,3,4,6, 10,16,20,25, 32,40	1	240	6000	6000	20000
	2,3,4	415	6000		
50,63	1	240	6000		
	2,3,4	415	6000		

CEI Isolator



◆ Specifications

Rated Voltage(V)	230/400
Rated Current(A)	10,16,20,25,32,40,50,63
Pole No.	1,2,3,4P

CEBG Mini Circuit Breaker



◆ Specifications

Pole No.	1,2,3,4
Rated Voltage (un)	230(240)/400(415)V AC, max .60V DC
Rated Current (in)	0.5-63A
Rated Frequency	50Hz
Rated Breaking Capacity	6KA
Energy Limiting Class	3
Tripping Characteristic	B C D
Cross-section of Connecting Lead	1-25mm ²
Isolating Class	B
Mounting on the Rail	EN50022
Build-in Width	18mm/pole
Standard	IEC60898 EN60898

CEI7N Isolator



◆ Specifications

Rated Voltage(V)	230(240)/400(415)
Rated Current(A)In	32,40,63,80,100
Frequency(Hz)	50/60
Short-circuit Bears to Suffer Capacity	Connected to 100A, Fuse to 25KA
Making or Breaking Capacity	1.25In;1.1Ie
Usage Category	AC22
Connection Wire Cut	Max.50mm ²
Protection Grade	IP40
Insulation	Appearance of clear and definite switch Position according to DIN VDE0106

CEI45 Isolator



◆ Specifications

Rated Voltage(V)	230(240)/400(415)
Rated Current(A)In	32,40,63,80,100
Frequency(Hz)	50/60
Short-circuit Bears to Suffer Capacity	Connected to 100A, Fuse to 25KA
Making or Breaking Capacity	1.25In;1.1Ue
Usage Category	AC22
Connection Wire Cut	Max.50mm ²
Protection Grade	IP40(Install the term)
Insulate	Appearance of clear and definite switch Position according to DIN VDE0106

Din Rail Socket



Modular Signal Lamp



CEWP Weather Protected Isolating Switch

◆ Application

Weather Protected

The Series of weather protected isolating switch is a robust range of switch suitable virtually for any external application. Included in the range is single, double and triple pole switches from 20 to 80A. The base mounted mechanism provides for easier termination and more wiring room, switch dimensions are 165mmx82mm with an overall height of 85mm.

Isolating switches

Fixed Earth and Neutral connector bars with dual clamping screws per tunnel provide equal stripping lengths and secure clamping for all cables. Terminal bore size 5x6.6mm.

A safety feature for mounting switches to metal structures is the insulating caps that cover base mounting screws to protect them from any live cables.

◆ Specifications

Products Available	Phase & Voltage	IP Rating
CEWP1-20	20A 250V Single pole surface switch. Terminals accommodate 16mm ² cables. M Rating220.	56
CEWP1-35	35A/63A 250V Single pole. Terminals accommodate 16mm ² cables. M Rating220.	56
CEWP1-20A-16 CEWP1-35A-16 CEWP1-63A-25	Single phase 250V Conduit: Φ25mm	56
CEWP2-20A-16 CEWP2-35A-16 CEWP2-63A-25	Double phase 440V Conduit: Φ25mm	56
CEWP3-20A-16 CEWP3-35A-16 CEWP3-63A-25	Three phase 440V Conduit: Φ25mm	56
CEWP3-55A-25 CEWP3-63A-25 CEWP3-80A-25	Three phase 440V Conduit: Φ32mm	56
CEWP2-20	20A 440V Double pole. Terminals accommodate 16mm ² cables. M Rating180.	56
CEWP2-35	35A 440V Double pole. Terminals accommodate 16mm ² cables. M Rating180.	56
CEWP2-63	63A 440V Double pole. Terminals accommodate 25mm ² cables. M Rating160.	56
CEWP3-20	20A 440V Triple pole. Terminals accommodate 16mm ² cables. M Rating180.	56
CEWP3-35	35A 440V Triple pole. Terminals accommodate 16mm ² cables. M Rating180.	56
CEWP3-55	55A 440V Triple pole. Terminals accommodate 16mm ² cables. M Rating160.	56
CEWP3-55-32CE	55A 440V Triple pole with 32mm conduit entry at each end. Terminals accommodate 25mm ² cables. M Rating160.	56
CEWP3-63-32CE	63A 440V Triple pole with 32mm conduit entry at each end. Terminals accommodate 25mm ² cables. M Rating160.	56
CEWP3-80-32CE	80A 440V Triple pole with 32mm conduit entry at each end. Terminals accommodate 25mm ² cables. M Rating150.	56



CEB5 Mini Circuit Breaker

Mini A
Circuit Breaker



CEB5 1P

◆ Application

The CEB5 MCB employs the hydraulic/magnetic principle, the heart of which is a hermetically sealed tube filled with silicone fluid and containing a closely-fitting iron slug under normal load conditions, the magnetic pull from the trip coil slug remains at the far end of the tube. When an overload occurs, the magnetic field plus the slug through the tube, the speed of travel being governed by the magnitude of the current. As the slug nears the end of the tube, the gap in the magnetic circuit is reduced, so increasing the pull on the armature until it moves and the breaker is tripped. If a large overload or short circuit occurs, the magnetic field generated will be much greater and the armature will move without giving time for the slug to reach the table. In this way instantaneous tripping occurs.

◆ Specifications

Rated Current (A)	Single Pole List No.	Double Pole List No.	Triple Pole List No.
5	50/05	52/05	53/05
7.5	50/075	52/075	53/075
10	50/10	52/10	53/10
15	50/15	52/15	53/15
20	50/20	52/20	53/20
30	50/30	52/30	53/30
40	50/40	-	53/40
50	50/30	52/30	53/50
60	50/40	52/40	53/60

Single pole & neutral MCB available on enquiry.

Triple pole & neutral MCB available on enquiry.

MCB rated current 0.75A, 1.0A, 1.5A & 2.5A available on enquiry.

- BS EN 60898.
- Type C (5-10In) classification.
- Short circuit duty rating-single pole 4500A 240V 50Hz
-multi pole 4500A 240/415V 50Hz.
- Nominal operating temperature range 0°C to 60°C



CEB5 2P



CEB5 3P

CEBX Mini Circuit Breaker

◆ Specifications

Pole No.	Rated Current (A)	Width 17.5mm	I 3KA	I 35KA
Single Pole	10	1	CEBX1-10X	CEBH110X
	15	1	CEBX1-15X	CEBH115X
	20	1	CEBX1-20X	CEBH120X
	25	1	CEBX1-25X	CEBH125X
	30	1	CEBX1-30X	CEBH130X
	40	1	CEBX1-40X	CEBH140X
	50	1	CEBX1-50X	CEBH150X
Double Pole	10	2	CEBX2-10X	CEBH210X
	15	2	CEBX2-15X	CEBH215X
	20	2	CEBX2-20X	CEBH220X
	25	2	CEBX2-25X	CEBH225X
	30	2	CEBX2-30X	CEBH230X
	40	2	CEBX2-40X	CEBH240X
	50	2	CEBX2-50X	CEBH250X
Triple Pole	10	3	CEBX3-10X	CEBH310X
	15	3	CEBX3-15X	CEBH315X
	20	3	CEBX3-20X	CEBH320X
	25	3	CEBX3-25X	CEBH325X
	30	3	CEBX3-30X	CEBH330X
	40	3	CEBX3-40X	CEBH340X
	50	3	CEBX3-50X	CEBH350X
60	3	CEBX3-60X	CEBH360X	
100	3	CEBX3-100X	CEBH3100X	



1P Plug-in Type



2P Plug-in Type



3P Plug-in Type

Mini A
Circuit Breaker

CEBM6 Mini Circuit Breaker



◆ Application

CEBM6 circuit breaker applies to industrial, commercial, lighting and electric machine distribution system with AC 415V, 50/60Hz, rated working current up to 60A to be used to protect overload and short circuit.

Specifications

Pole No.	1,2,3P
Rated Current(A)	6,10,15,20,25,30,40,50,60
Rated Voltage(V)	110/220(1P) 210/415(2P) 415(3P)
Rated Breaking Capacity	3KA
Electrical Life(Times)	6000
Mechanical Life(Times)	20000

CEBM7 Mini Circuit Breaker



◆ Application

CEBM7 mini circuit breaker applies to industrial, commercial, lighting and electric machine distribution system with AC 415V, 50/60Hz, rated working current up to 60A to be used to protect overload and short circuit.

Specifications

Pole No.	1,2,3P
Rated Current(A)	6,10,15,20,25,30,40,50,60
Rated Voltage(V)	110/220(1P) 210/415(2P) 415(3P)
Rated Breaking Capacity	3KA
Electrical Life(times)	6000
Mechanical Life(times)	16000

CEBM5 Plug-in Circuit Breaker



◆ Application

CEBM5 plug-in circuit breaker can be used in the building office, house, industry and similar building for illuminating at AC 60Hz, rated voltage below 415V, rated current 6-60A, distribution circuit and equipment overload, short circuit protection. This product accords with the requirement of JB/DQ 4328-88 and BS 3871 standards.

Specifications

Pole No.	Rated Current(A)	Rated Voltage(V)	Breaking Capacity(KA)	Electrical Life	Mechanical Life
1	6 10 16 20 30 40 50 60	240/415	3	6000 times	16000 times
2		415			
3					

CEB50 Circuit Breaker



◆ Application

CEB50 series safety type mini circuit breakers has features of lively machine, excellent quality, beautiful appearance, and small volume. The product is suitable for AC 50Hz, rated voltage up to 240V, rated current up to 32A, it is used for protection of the overload and short circuit of all kinds of modern family applicable apparatus. It can also be used for unfrequent operation and control.

◆ Specifications

Rated Voltage(V)	220
Rated Current(A)	6 10 16 20 25 32
Rated Capacity of Short-circuit Breaking (KA)	1.5
No. of Pole(P)	2

B PRODUCTS CONTENTS
SERIES

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Earth Leakage Circuit Breaker

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CEB30L Earth Leakage Circuit Breaker

◆ Application

CEB30L leakage protective breaker is used in the single phase residence circuit of AC 50Hz 160Hz, rated voltage 230V, used as electron shock protection. It can protect civil electron circuit from overload and short circuit. This product has advantages of small volume, high breaking capacity zero, and live wire are cut off at the same time, also protecting person from electric shock when the live wire connected opposite. This product conforms to IEC61009, GB16917 Standards.

◆ Specifications

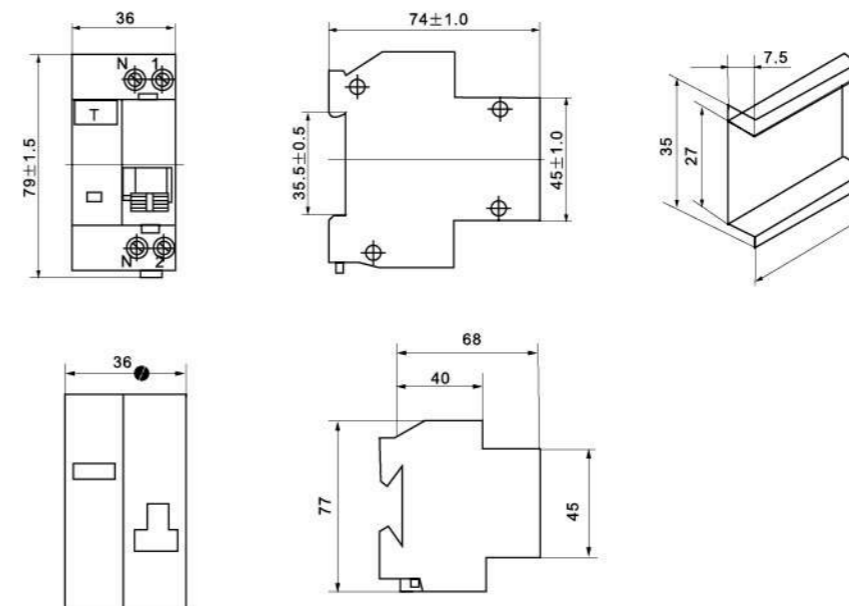
Rated Current (A)	No. of Pole	Rated Voltage (V)	Rated Current of Frame	Rated Leakage Operating	Rated Leakage Non-Operating Current	Rated Leakage Breaking Time	Breaking Capacity (A)
6, 10, 16, 20, 25, 32	1+N	230	32	30	15	≤ 0.1s	3000



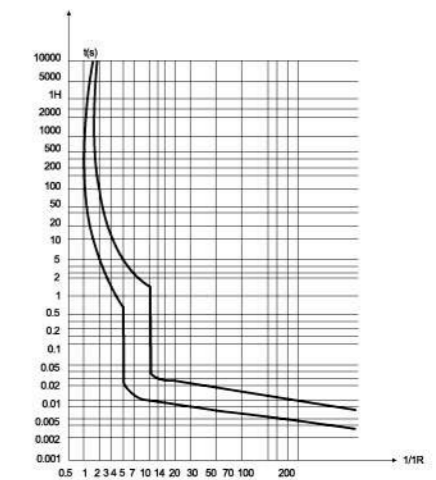
◆ Overload Trip Characteristic

Rated Current(A)	Rated Voltage(A)	Limited Time	Pre-engage Result	Start State	Note
1.13In	all	t ≥ 1h	non-trip	cold state	
1.45In	all	t < 1h	trip	heat state	The current rise steadily to a fixed value within 5s
2.55In	all	1 < t < 60s	trip	cold state	
5In	all	t ≥ 0.1s	non-trip	cold state	Open the supplementary switch, connect the power
10In	all	t < 0.1s	trip	cold state	Open the supplementary switch, connect the power

◆ Dimensions



Characteristic Curve



CEB7L Residual Current Device



CEB7L 2P

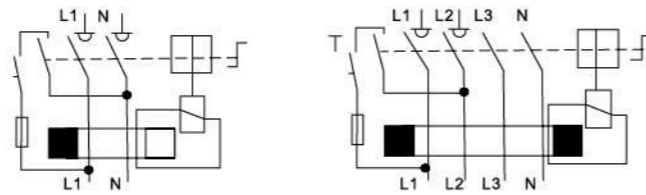


CEB7L 4P

◆ Specifications

Standard	IEC61008, GB16916, BS EN61008
Rated Voltage(Un)	2 Pole :230V AC 4Pole :400V AC
Rated Current(In)	25,40,63A
Rated Residual Operating Current(I Δ n)	30,100,300,500mA
Rated Residual Non-operating Current(I Δ no)	0.5I Δ n
Rated Current off-time	≤ 0.1s
Min Value of Rated Operating and Breaking Capacity(I _m)	1kA
Rated Conditional Short-circuit Current(I _{nc})	I _n =25,40A I _{nc} =1500A I _n =63A I _{nc} =3000A
Installation	On symmetrical DIN rail

◆ Operation Principle



CECDN Residual Current Device



CECDN 2P

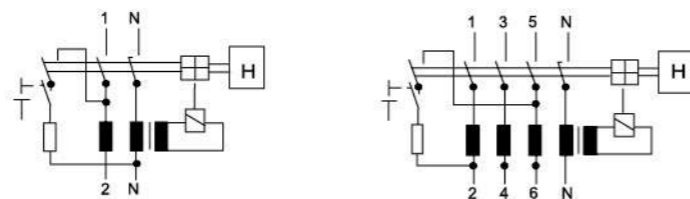


CECDN 4P

◆ Specifications

Standard	IEC61008, GB16916, BS EN61008
Rated Voltage(Un)	2 Pole :230V AC 4Pole :400V AC
Rated Current(In)	25,40,63A
Rated Residual Operating Current(I Δ n)	30,100,300,500mA
Rated Residual Non-operating Current(I Δ no)	0.5I Δ n
Rated Current off-time	≤ 0.1s
Min Value of Rated Operating and Breaking Capacity(I _m)	3kA
Rated Conditional Short-circuit Current(I _{nc})	I _n =25,40A I _{nc} =1500A I _n =63A I _{nc} =3000A
Endurance	on load:2000cycles off load:2000cycles

◆ Operation Principle

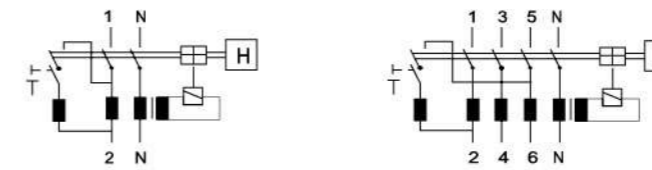


CE7L Residual Current Device

◆ Specifications

Standard	IEC61008, GB16916, BS EN61008
Rated Voltage(Un)	2 Pole :230V AC 4Pole :400V AC
Rated Current(In)	25,40,63A
Rated Residual Operating Current(I Δ n)	30,100,300,500mA
Rated Residual Non-operating Current(I Δ no)	0.5I Δ n
Rated Current off-time	≤ 0.1s
Min Value of Rated Operating and Breaking Capacity(I _m)	500A
Rated Conditional Short-circuit Current(I _{nc})	3kA
Installation	On symmetrical DIN rail

◆ Operation Principle



CE7L 2P



CE7L 4P

CECL26-63 Residual Current Circuit Breaker With Over Current Protection

◆ Specifications

Type Designation	I _n I Δ n(A)	Article No.	Units per package
CECL26-6/1N/N/003	6/0.03	382245	1/60
CECL26-10/1N/N/003	10/0.03	382246	1/60
CECL26-13/1N/N/003	13/0.03	382247	1/60
CECL26-16/1N/N/003	16/0.03	382248	1/60
CECL26-20/1N/N/003	20/0.03	382249	1/60
CECL26-25/1N/N/003	25/0.03	382250	1/60
CECL26-32/1N/N/003	32/0.03	382251	1/60
CECL26-40/1N/N/003	40/0.03	382252	1/60
CECL26-6/1N/N/01	6/0.1	382253	1/60
CECL26-10/1N/N/01	10/0.1	382254	1/60
CECL26-13/1N/N/01	13/0.1	382255	1/60
CECL26-16/1N/N/01	16/0.1	382256	1/60
CECL26-20/1N/N/01	20/0.1	382257	1/60
CECL26-25/1N/N/01	25/0.1	382258	1/60
CECL26-32/1N/N/01	32/0.1	382259	1/60
CECL26-40/1N/N/01	40/0.1	382260	1/60



CECL26-63

CEB45L Earth Leakage Circuit Breaker

◆ Application

CEB45L earth leakage circuit breaker is used for the protection, against electrical leakage in the circuit of 50Hz, rated voltage single-phase 240V, 3 phase 415V, rated current up to 60A. When somebody gets an electric shock or the residual current of the circuit exceeds the fixed value, the ELCB can cut off the power within the time of 0.1s automatically protecting the equipment from the fault resulted by the residual current. With this function, the ELCB can protect the circuit against overload and short circuit or can be used for the unfrequent switch over of the circuit under normal conditions. It conforms to IEC60898&IEC60755.

◆ Specifications

Rated Voltage(V)	Pole No.	Rated Current(A)	Leakage Action Current(mA)	Leakage Dead Current(mA)	Leakage Action Time(s)
220V	1P	1~10	30	15	<0.1
380V	2,3,4P	15~32 40~60	100	50	

◆ Wiring Diagram

Single-pole Double Line	Double-pole Double Line	Triple-pole Triple Line	Triple-pole Four Line	Four-pole Four Line
CEB45L 1/2	CEB45L 2/2	CEB45L 3/3	CEB45L 3/4	CEB45L 4/4



CEB45L 1P



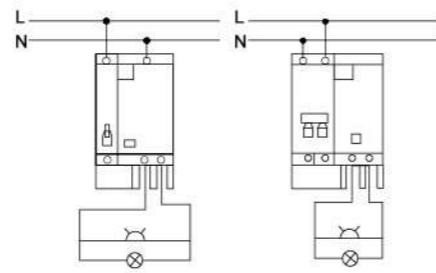
CEB45L 2P



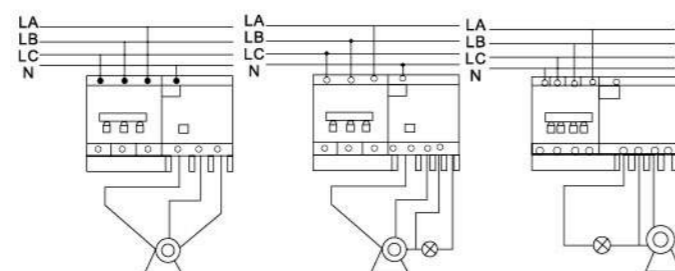
CEB45L 3P



CEB45L 4P



CEB45L-1/2 CEB45L-2/2



CEB45L-3/3 CEB45L-3/4 CEB45L-4/4

CEB6L Earth Leakage Circuit Breaker

◆ Application

The product is in accordance with standards of VDE 0664,CEE27 and BS4293 etc. Applying to the circuit of AC 50/60Hz, 240V single phase, 415V three phases and below it for industrial and mining enterprise, shopping mall, commerce and family. To mainly prevent electric fire and personal casualty accident caused by personal electric shock or leakage of electrified wire netting, this ELCB is a current-operated,fast leakage protector of pure electromagnetic type.VVhich can break off fault circuit rapidly in order to avoid occurrence of accident. The item is precise in structure, less elements,without auxiliary power and high working reliability.The function of the switch will not be influenced by ambient temperature and lighting. The mutual inductor of the item is used to test vector differential value of passing current,and produces are relevant output power and add it differential value of protected circuit of personal electric shock is up to or over leakage operating current, the tripper will act and cut off so that the item will take effect of protection.

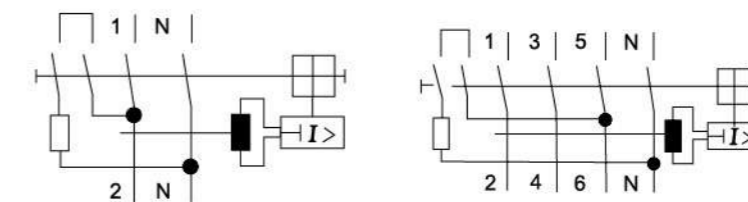
◆ Technical Data

Tripping Time	100ms(depending on specifications 5XIL,400ms)
Ambient Temperature	-5°C ~+55°C
Climatic Resistance	55°C / 28°C cycles
Vibration Resistance	Min 5g 30min, 0-8Hz
Life Expectance	More Than 10,000 Times

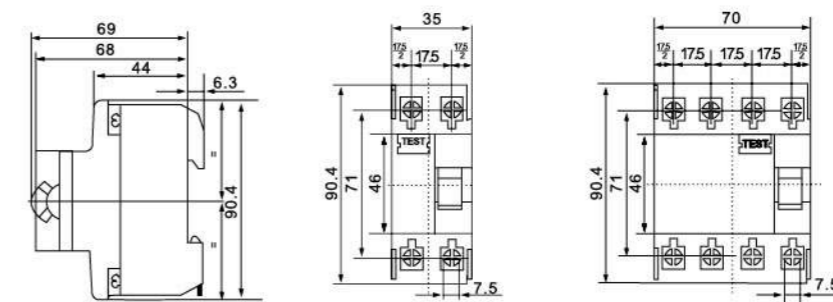
◆ Technical Data

Type	RatedCurrent (A)	Leakage Acting Current	Range of Break-off	Rated Voltage
CEB6L 2P	16A,25A,32A, 40A,63A	10mA 30mA 100mA 300mA	0.5~1.0XI Δ n	240V(220V)
CEB6L4P	25A,32A 40A,63A	30mA 100mA 300mA	0.5~1.0XI Δ n	240V/415V (220V/380V)

◆ Operation Principle Fig.



◆ Dimensions



CEB6L 2P 40/30mA



CEB6L 4P 40/30mA

CEI-100 Earth Leakage Circuit Breaker

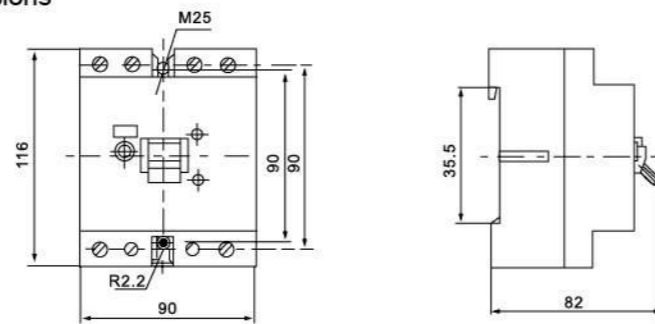
◆ Application

CEI-100 Residual current circuit breaker provide the functions of isolation switching and earth leakage protection of electrical circuits. And also provides the indirect protection of the operator's body against the dangerous effects of electric current and provides the protection of the fire caused by the electrical circuit fault.

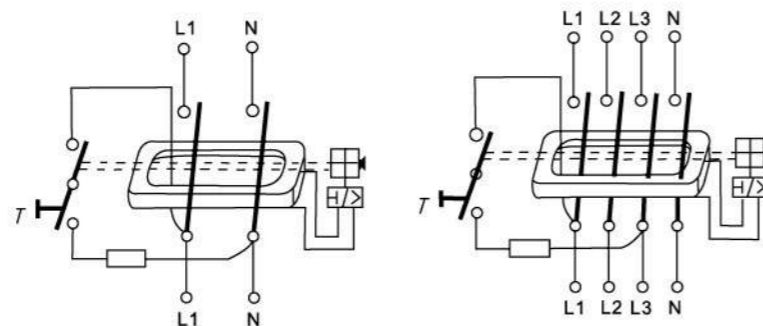
◆ Specifications

Type	CEI-100	
Standard	IEC61008	
No. of Poles	2P,4P	
Rated Current(I _n)	25,40,63A	
Rated Residual Operating Current(I _{Δn})	30,100,300,500mA	
Rated Residual Non-operating Current(I _{Δno})	50,150,250mA	
Rated Voltage(Un)	AC 230(240)/400(415)V	
Residual Current off-time	≤ 0.1s	
Short-circuit Capacity(I _{nc})	I _n =25,40A	
Endurance	On load	2000 cycles
	Off load	2000 cycles
Protection Degree	IP20	

◆ Dimensions



◆ Operation Principle Fig.



CEY30 Residual Current Device(RCD)

◆ Application

The residual current device (RCD) CEY30 is in conformity with the standards of IEC1008, VDE0664,CEE27 and BS 4293.

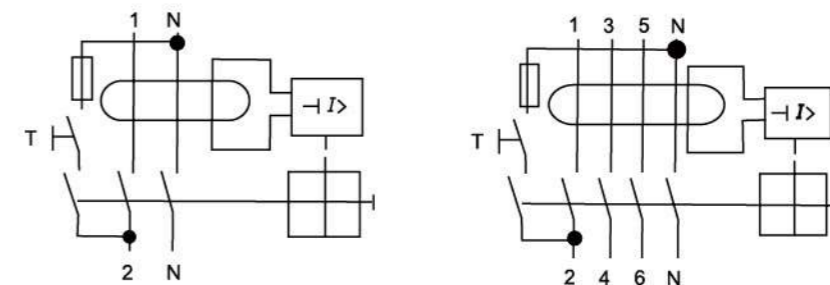
It can cut off the fault circuit immediately on the occasion of shock hazard or earth leakage of trunk line. Thus it is suitable to avoid the shock hazard and fire caused by earth leakage.

CEY30 RCD is mainly suitable for using in varieties of plants, enterprises, buildings. Constructions, commerce, hotels and families. It can be used in circuit up to single phase 240V, three phase 415V, 50 or 60Hz.

◆ Specifications

Rated Voltage(Un)	2Pole :230VAC 4Pole :400VAC
Rated Current(I _n)	25,40,63A
Rated Residual Operating Current(I _{Δn})	30,100,300,500mA
Rated Residual Non-operating Current(I _{Δno})	0.5I _{Δn}
Rated Current off-time	≤ 0.1s
Min Value of Rated Operating and Breaking Capacity(I _m)	1kA
Rated Conditional Short-circuit Current(I _{nc})	I _n =25,40A I _{nc} =1500A I _n =63A I _{nc} =3000A
Installation	On symmetrical DIN rail
Endurance(times)	4000

◆ Operation Principle Fig.



CEI-100 2P



CEI-100 4P



CEY30 2P 40/0.1



CEY30 4P 40/0.1

CENL Residual Current Device

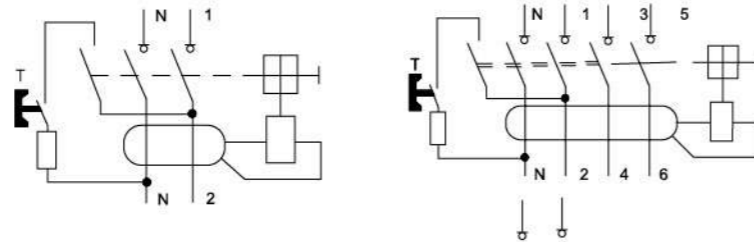


CENL 2P

◆ Specifications

Standard	IEC61008,GB16916,BS EN61008
Rated Voltage(Un)	2 Pole 230VAC 4 Pole 400VAC
Rated Current(In)	25,40,63A
Rated Residual Operating Current(I Δ n)	30,100,300,500mA
Rated Residual Non-operating Current(I Δ no)	0.5I Δ n
Rated Current off-time	≤ 0.1s
Min Value of Rated Operating and Breaking Capacity(I _m)	1kA
Rated Conditional Short-circuit Current(I _{nc})	I _n =25,40A I _{nc} =1500A I _n =63A I _{nc} =3000A
Endurance	On load:2000 Cycles off load:2000 Cycles
Installation	On symmetrical DIN Rail

◆ Operation Principle Fig.



CENL 4P

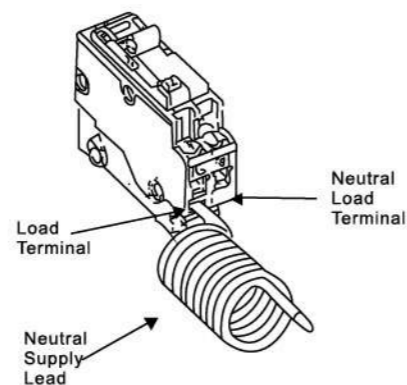
MCB-RCD Combination

◆ Application

This unit combines the over current protection of the MCB with an electronic RCD capable of high sensitivity operation with special fail-safe features. The unit provides single-phase protection against overload, short circuit and earth leakage current.



CEP30L



CEB65NL Earth Leakage Circuit Breaker

◆ Specifications

Rated Voltage	230V/400V
Rated Current	6-63A
Rated Frequency	50Hz
Rated Breaking Capacity	10KA/6KA
Tripping Characteristic	B C
Rated Residual Current	30mA
Standard	IEC 61009 GB16917.1



CEB65NL 2P

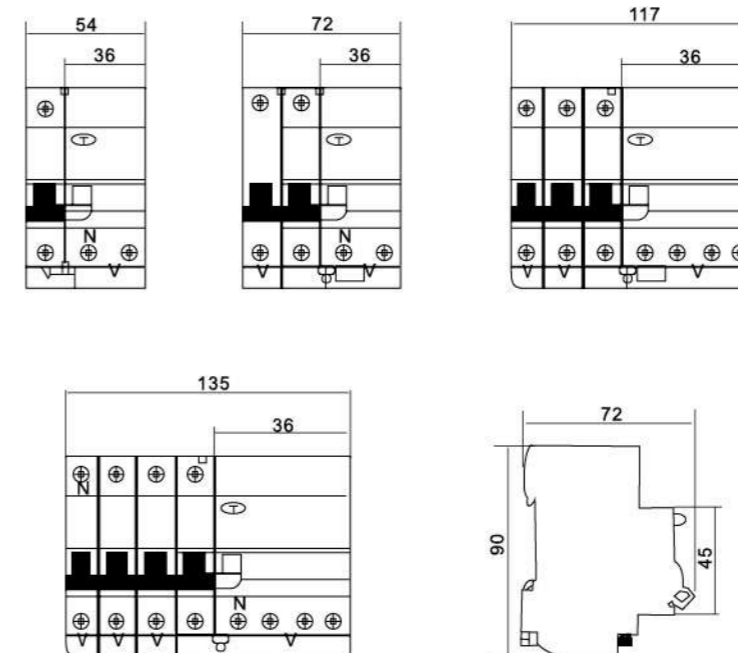
◆ Wiring Diagram

Single-pole Double Line	Double-pole Double Line	Triple-pole Triple Line	Four-pole Four Line
CEB65NL 1/2	CEB65NL 2/2	CEB65NL 3/3	CEB65NL 4/4



CEB65NL 3P

◆ Dimensions



CEDL Earth Leakage Circuit Breaker



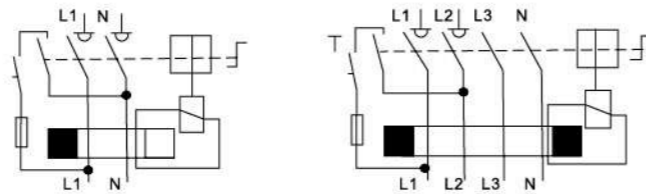
◆ Application

They have a residual current operated electromechanical release which operates without any auxiliary source of supply to open a circuit automatically in the case of an earth leakage fault between phase and earth greater than or equal to a threshold of 30mA,100mA,300mA or 500mA.

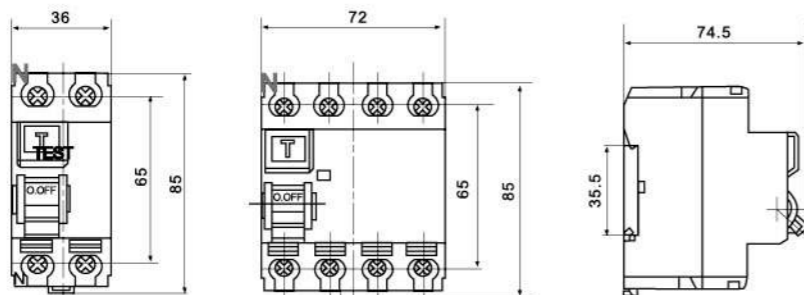
◆ Specifications

Standard	IEC61008, GB16916, BS EN61008
Rated Voltage (Un)	2 Pole :230VAC 4Pole :400VA
Rated Current (In)	25,40,63A
Rated Residual Operating Current(I Δ n)	30,100,300,500mA
Rated Residual Non-operating Current(I Δ no)	0.5I Δ n
Rated Current off-time	≤ 0.1s
Minimum Value of Rated Making And Breaking Capacity(I _m)	500A
Rated Conditional Short-circuit Current(I _{nc})	In=25,40A Inc=1500A In=63A Inc=3000A
Endurance	on load:2000cycles off load:2000cycles

◆ Operation Principle Fig.



◆ Dimensions



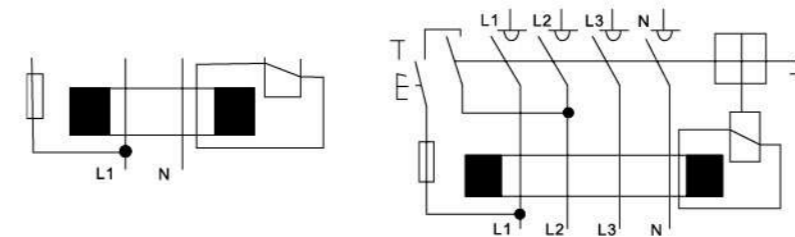
CECD Residual Current Device

◆ Specifications

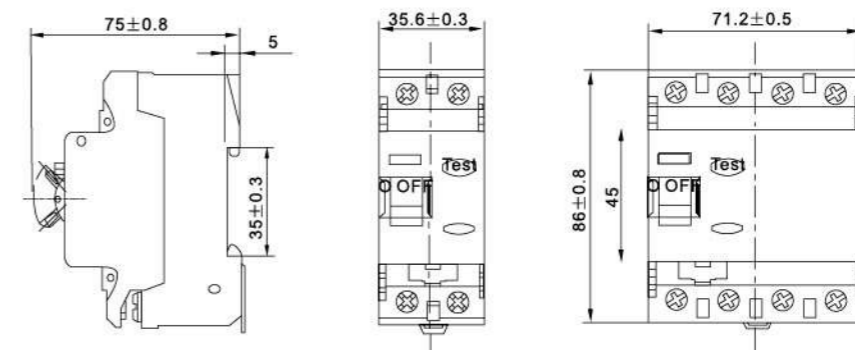
Standard	IEC61008, GB16916, BS EN61008
Rated Voltage(Un)	2Pole :230V AC 4Pole :400V AC
Rated Current(In)	25,40,63A
Rated Residual Operating Current(I Δ n)	30,100,300,500mA
Rated Residual Non-operating Current(I Δ no)	0.5I Δ n
Rated Current off-time	≤ 0.1s
Min Value of Rated Operating and Breaking Capacity(I _m)	1kA
Rated Conditional Short-circuit Current(I _{nc})	In=25,40A Inc=1500A In=63A Inc=3000A
Installation	On symmetrical DIN rail



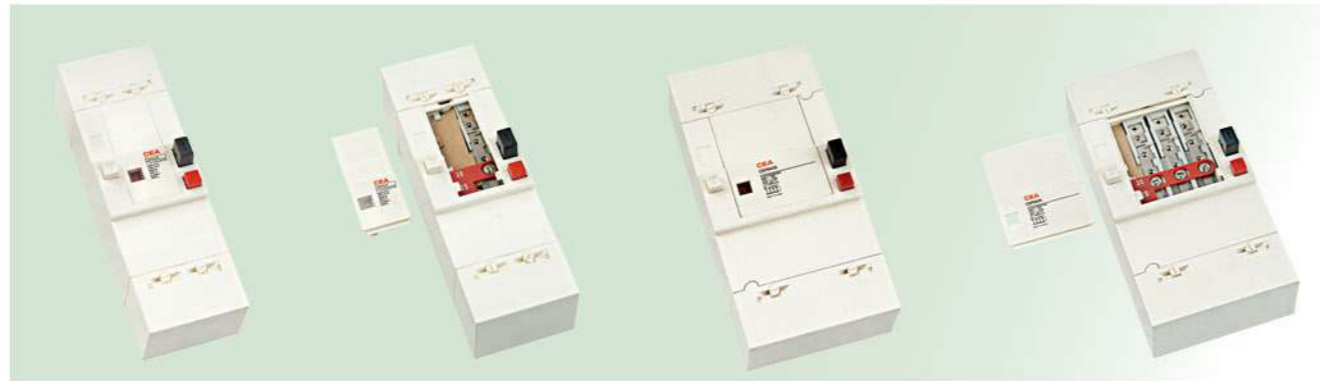
◆ Operation Principle Fig.



◆ Dimensions

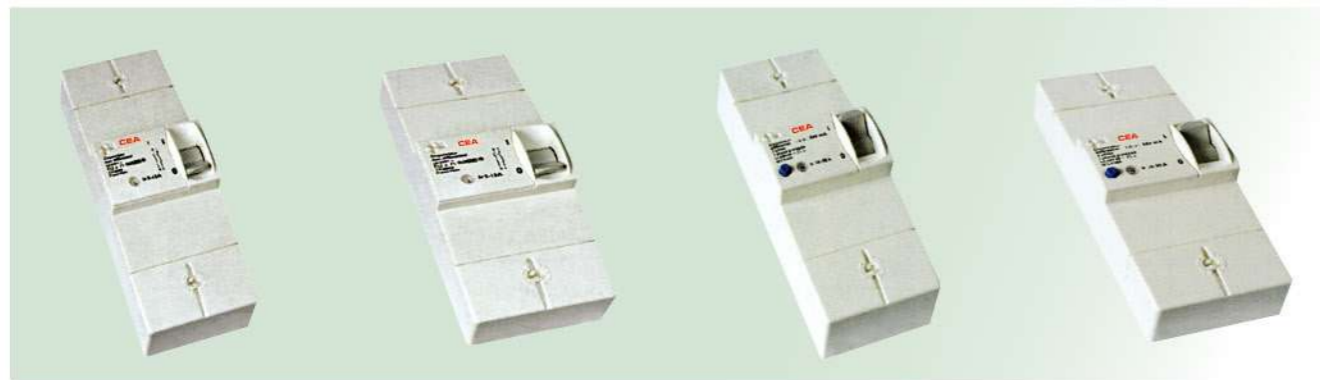


CEPD Leakage Overload Breaker



Model: CEPD230-2P			Model: CEPD430-4P		
Frame(A)	In(A)	IΔn (mA)	Frame(A)	In(A)	IΔn (mA)
5~15	5,10,15	300,500	5~15	5,10,15	300,500
10~30	10,15,20,25,30	300,500	10~30	10,15,20,25,30	300,500
15~45	15,30,45	300,500	15~45	15,30,45	300,500
30~60	30,45,60	300,500	30~60	30,45,60	300,500

CEGD Leakage Overload Breaker



Model: CEGD230-2P			Model: CEGD430-4P		
Frame(A)	In(A)	IΔn (mA)	Frame(A)	In(A)	IΔn (mA)
5~15	5,10,15	300,500	5~15	5,10,15	300,500
10~30	10,15,20,25,30	300,500	10~30	10,15,20,25,30	300,500
15~45	15,30,45	300,500	15~45	15,30,45	300,500
30~60	30,45,60	300,500	30~60	30,45,60	300,500

CELE-32 Earth Leakage Circuit Breaker

◆ Application

CELE-32 earth leakage circuit breakers are mainly applied to the AC 50Hz/60Hz circuit rated 240V and 32A or below, They have the electric leakage(electric shock), overload, short circuit and so on protection functions. The over voltage protection function can also be provided upon requirements. They are mainly used to protect the building illumination and power distribution system.

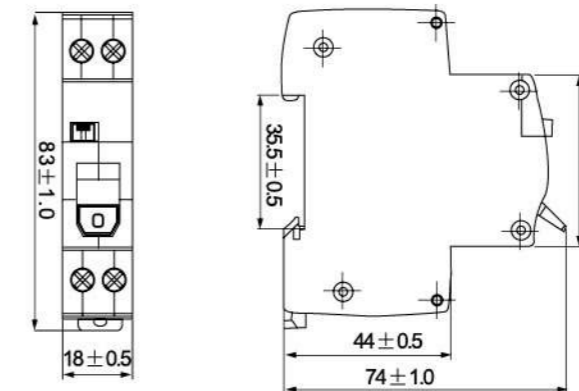
◆ Specifications

Rated Voltage(V)	Rated Current (A)	I Δ n (mA)	I Δ no (mA)	Breaking Times(S)				I Δ mA(A)
				I Δ n	2I Δ n	0.25A	500A	
240	6,10,16,20,25,32	30,100	15,50	0.1	0.05	0.04	0.04	3000

◆ Notices

1. Leakage protection function of RCBO is tested and adjusted by the manufacture, users can not open the products at random during usage.
2. After using RCBO for a certain time (normally one month), test button should be pressed once in a state of making the circuit to check whether the function of RCBO is normal and reliable (press test button once, the RCBO can break off once). If abnormal, it should be unloaded and sent to the manufacturer to repair.
3. RCBO can not be wetted or soaked by rain, snow or water during the course or transportation storage and usage.

◆ Characteristic Curve



CELE-32

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05 CES Switch-disconnectors	20 Load-isolation switch LIS Series
06 CEM15 Moulded Case Circuit Breaker	
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10 CEM12 Moulded Case Circuit Breaker	
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11 CEM17 Moulded Case Circuit Breaker	
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13 CMB-M Motor Protection Circuit Breaker	
14 CMB3V Motor Protection Circuit Breaker	

CEM3 Moulded Case Circuit Breaker

◆ **Application**

CEM3 series moulded case circuit breaker is one of the most advanced breakers in the world. Which adopts international advanced design and manufacture technology. They are suitable for short circuit and overload protection for circuit of AC 690V 50/60Hz, rated current from 12.5A to 630A. It takes protective effect when mouse cage motors non-frequent start, breaking off working and protecting overload, short circuit and undervoltage.

◆ **Specifications**

Rated Current of Release(A)	Thermodynamic Release(ambient temp. +40°C)		Operation Current of Magnetic Release(A)
	1.0 5In(cold state) inoperative time(h)	1.30In(heat state) inoperative time(h)	
In ≤ 63	≥ 1	< 1	10In ± 20%
63<In ≤ 100	≥ 2	< 2	10In ± 20%
100<In<630	≥ 2	< 2	5-10In ± 20%

Rated Current of Release (A)	Thermodynamic Release(ambient temp +40°C)				Operation Current of Magnetic Release (A)
	1.0In (cold state) operative time(h)	1.20In (heat state) operative time(h)	1.50In (heat state) operative time(h)	1.01In (heat state) operative time(h)	
12.5 ≤ In ≤ 400	≥ 2	< 2	≤ 4min	2S < Tp ≤ 10S	12In ± 20%

Type	Rated Current (A)	Poles	Rated Insulating Voltage (V)	Rated Operating Voltage(V)	Acting Over Distance (mm)	Ultimate short circuit Breaker Capacity (KA)	Services short Circuit Breaker Capacity (KA)	Operating performance (times)	
								ON	OFF
CEM3-100D	12.5, 16, 20, 25, 32, 40, 50, 63, 80, 100	3, 4	950	690	0	18	18	1500	8500
CEM3-100N	25					25			
CEM3-100H	70					70			
CEM3-100L	150					150			
CEM3-160D	12.5, 16, 20, 25, 32, 40, 50, 63, 80, 100					25	25	1500	7000
CEM3-160N	36					36			
CEM3-160H	70					70			
CEM3-160L	150					150			
CEM3-250D	160, 180, 200, 225, 250					25	25	1000	7000
CEM3-250N	36					36			
CEM3-250H	70					70			
CEM3-250L	150					150			
CEM3-400D	200, 225, 250, 300, 315, 400					35	35	1000	4000
CEM3-400N	45					45			
CEM3-400H	70					70			
CEM3-400L	150					150			
CEM3-630D	315, 350, 400, 500, 600, 630	35	35	1000	4000				
CEM3-630N	45	45							
CEM3-630H	70	70							
CEM3-630L	150	150							
CEM3-800L	800	150	500	2000	5000				
CEM3-1000L	1000	150	500						
CEM3-1250L	1250	150	500						



CEM3-100N



CEM3-250N



CEM3-400N



CEM3-630N



CEM3-800~1250N

CEM3E Moulded Case Circuit Breaker

◆ Application

CEM3E MCCB is simple and universal solution to fit all the needs in terms of low voltage protection.

◆ Specifications

Type		CEM3E-100F	CEM3E-100N		
Number of Pole	In at 40°C	3	1	3-4	
Rated Current(A)		15,16,20,25,30,32,40,45,50,60,63,75,80,100	15,16,20,25,30,32,40,45,50,60,63,75,80,100	15,16,20,25,30,32,40,45,50,60,63,75,80,100	
Rated Insulating Voltage(V)	Ui	690	690	690	
Rated Impulse Withstand Voltage (kv)Uimp		6	6	6	
Rated Operational Voltage(V) Ue	AC 50/60Hz	550	415	550	
	DC	250	125	250	
Electrical Characteristics as Per IEC 60947-2, EN60947-2, JISC8201-2-1					
Ultimate Breaking Capacity(kA rms)	Icu	AC 50/60Hz 110/130V	25	25	25
		220V/230V/240V	25	18	25
		380V	10	2.5	18
		400/415V	10	2.5	15
		400V	7.5	-	10
		550V	5	-	5
		DC 215V(1P)	5	5	5
Rated Service Breaking Capacity (kArms)	Ics	%Lcu 110-400V	50%	50%	50%
		415-550V	50%	50%	50%
Suitability for Isolation		■	■	■	
Utilisation Category		A	A	A	
Pollution Degree		3	3	3	
Endurance(C-0 cycles)	Mechanical	8500	8500	8500	
	Electrical In/415V	1500	1500	1500	

Type		CEM3E-250F	CEM3E-250N	CEM3E-400N	CEM3E-400H	
Number of Pole	In at 40°C	3	3	3-4	3-4	
Rated Current(A)		100,125,150,160,175,200,225,250	100,125,150,160,175,200,225,250	250,300,320,350,400	250,300,320,350,400	
Rated Insulating Voltage(V)	Ui	690	690	690	690	
Rated Impulse Withstand Voltage (kv)Uimp		6	6	8	8	
Rated Operational Voltage(V) Ue	AC 50/60Hz	550	550	550	550	
	DC	250	250	250	250	
Electrical Characteristics as Per IEC 60947-2, EN60947-2, JISC8201-2-1						
Ultimate Breaking Capacity(kA rms)	Icu	AC 50/60Hz 110/130V	25	50	-	-
		220V/230V/240V	25	50	85	100
		380V	18	25	36	50
		400/415V	18	25	36	50
		400V	18	20	36	50
		550V	15	8	15	20
		DC 215V(1P)	5	20	-	-
Rated Service Breaking Capacity (kArms)	Ics	%Lcu 110-400V	50%	50%	50%	50%
		415-550V	50%	50%	50%	50%
Suitability for Isolation		■	■	■	■	
Utilisation Category		A	A	A	A	
Pollution Degree		3	3	3	3	
Endurance(C-0 cycles)	Mechanical	10000	10000	4000	4000	
	Electrical In/415V	5000	5000	51000	1000	



CEM3E 100



CEM3E 250



CEM3E 400

CEM21 Moulded Case Circuit Breaker

◆ Application

CEM21 series moulded case circuit breaker is suitable for industrial or commercial power and lighting with AC 50/60Hz, rated working voltage up to AC600V/DC250V, rated current up to 1200A, it's a kind of economic breaker with the characteristics of stable and reliable function, beautiful appearance, small size and long life, it can be used for conversion of line and infrequent starting motor. It can also be attached to install the accessories which have protection function for avoiding loss-voltage, under voltage. The product can install connection line with front board and back board, it can also be equipped with hand-operating apparatus or motor-operating apparatus to control in a remote distance.

◆ Specifications

Type	Rated Current(A)	Poles	Rated Voltage(V)		Rated Ultimate Breaking Capacity Icu According to IEC 60947-2 AC Voltage						DC Voltage	
			AC	DC	550V	440V	415V	380V	240V	250V	125V	
CEM21E-30	10,15,20,30	2P,3P	600	250	2.5	2.5	5	5	10	2.5	5	-
CEM21S-30	3,5,10,15,20,30	2P,3P	600	250	2.5	7.5	10	14	25	5	10	-
CEM21E-50	3,5,10,15,20,30,40,50	2P,3P	600	250	2.5	5	5	7.5	10	2.5	5	-
CEM21S-50	10,15,20,30,40,50	2P,3P	600	250	5	7.5	10	14	18	25	5	10
CEM21E-60	60	2P,3P	600	250	2.5	2.5	5	5	10	5	10	-
CEM21S-60	60	2P,3P	600	250	5	18	25	25	35	10	5	-
CEM21E-100	15,20,30,40,50,60,75,100	2P,3P	600	250	5	7.5	10	10	25	5	10	-
CEM21S-100	10,15,20,30,40,50,60,75,100	3P	600	250	10	14	14	14	50	20	14	-
CEM21E-225	125,150,175,200,225	3P	600	250	7.5	10	10	10	35	10	-	-
CEM21S-225	125,150,175,200,225	3P	600	250	10	14	25	25	50	20	14	-
CEM21E-400	250,300,350,400	3P	600	250	18	18	25	25	35	10	-	-
CEM21S-400	250,300,350,400	3P	600	250	22	25	35	35	50	20	14	-



CEM21-125



CEM21-250



CEM21-630

CEM1 Moulded Case Circuit Breaker

◆ Application

CEM1 series moulded case circuit breaker is a new type product developed and manufactured by adopting international advanced technology. It is supplied with rated insulation voltage 800V and used for circuit of AC 50Hz, rated operation voltage AC 400V or below rated operation current up to 800A for infrequent changing over and starting of the motors. Equipped with the protection devices for over-current, short circuit and under voltage, the product is capable of preventing damage of circuits and supply units. The product conforms to IEC60947-2 standard.

◆ Specifications



CEM1-100L



CEM1-225L

Type	Rated Current (A)	No. of Poles	Rated Insulation Voltage(V)	Rated Operating Voltage(V)	Arcing Over Distance (mm)	Ultimate Short Circuit Breaking Capacity(KA)	Service Short Circuit Breaking Capacity(KA)	Operation Performance	
								ON	OFF
CEM1-63L	6, 10, 16, 20, 25, 32, 40, 50, 63	3P 4P	600V	380V	0	25	18	1500	8500
CEM1-63M					0	50	35		
CEM1-100C					0	25	18		
CEM1-100L	10, 16, 20, 25, 32, 40, 50, 63, 80, 100				0(0 ≤ 50)	35	22		
CEM1-100M					0(0 ≤ 50)	50	35		
CEM1-100H					0(0 ≤ 50)	85	50		
CEM1-225C					0 ≤ 50	25	18	1000	7000
CEM1-225L	100, 125, 160, 180, 200				0 ≤ 50	35	22		
CEM1-225M					0 ≤ 50	50	35		
CEM1-225H					0 ≤ 50	85	50		
CEM1-400C					0 ≤ 50	35	25	1000	4000
CEM1-400L	225, 250, 315, 350, 400				0 ≤ 50	50	35		
CEM1-400M					0 ≤ 50	65	42		
CEM1-630C					0 ≤ 100	35	25		
CEM1-630L	400, 500, 63				0 ≤ 100	50	35		
CEM1-630M					0 ≤ 100	65	42		
CEM1-630H		0 ≤ 100	100	65					
CEM1-800M	630, 700, 800	0 ≤ 100	65	42					
CEM1-800H		0 ≤ 100	100	65					

CES Switch-disconnectors

◆ Specifications

Electrical characteristics as defined by IEC 60947-1/60947-3 and EN 60947-1/60947-3

Conventional thermal current (A)	I _{th}	at 60 °C	
Conventional thermal current in enclosure	I _{th}	at 60 °C	
Rated insulation level (V)	U _i	AC 50/60 Hz	
Impulse-withstand voltage (kV)	U _{imp}		
Rated operational voltage (V)	U _e	AC 50/60 Hz	
		DC	
Rated operational voltage AC20 and DC20 (V)		AC 50/60 Hz	
Rated operational current (A)	I _e	Electrical AC	50/60 Hz
			220-240 V
			380-415 V
			440-480 V ⁽¹⁾
			500V
			660-690 V
Electrical DC			125 V (2P in series)
			250 V (4P in series)
Rated operational power AC23 (kW)		Electrical AC	50/60 Hz
			220-240 V
			230 V (NEMA)
			380-415 V
			440 V
			480 V (NEMA)
			500-525 V
			660-690 V
Rated duties		uninterrupted duty	
		intermittent duty	
Short-circuit making capacity	I _{cm}	min. (switch-disconnector alone)	
		max. (with upstream protection circuit breaker)	
Short-time withstand current	I _{cw} (A rms)	1s	
		3 s	
		20 s	
		30 s	
Suitability for isolation			
Durability (category A) (O - C-O cycles)		Mechanical	
		Electrical AC	50/60 Hz
			220-240 V
			380-415 V
			440 V
			500 V
			690 V
		Electrical DC	
		250 V	
Positive contact indication			
Visible break			
Emergency-off switch disconnector			
Degree of pollution			
Upstream protection			
See the "Additional characteristics" section, 308E5010			



CEM15 Moulded Case Circuit Breaker

◆ Application

CEM15 series moulded case circuit breaker is suitable for the circuit of AC 50Hz(or 60Hz),rated insulation Voltage 660V, rated operating Voltage under AC 660V,250V(DC), rated operating current 10-800A.It is for distributing energy of electricity and infrequent switch-over under normal conditions. The MCCB rated current under 400A.They are provided with the function of the protection against over-load and short circuit and undervoltage . The MCCB complies with standard of IEC947-2.

◆ Tripping Characteristics

Rated Current of Release (A)	Thermal Dynamic Release(ambient temp+40℃)		Operational Current of Magnetic Release(A)
	1.0 5In(cold state) Inoperative Time(h)	1.30In(heat state) Inoperative Time(h)	
In ≤ 63	≥ 1	< 1	10-50In ± 20%
63 < In ≤ 250	≥ 2	< 2	10In ± 20%
25 < In ≤ 800	≥ 2	< 2	5-10In ± 20%

◆ Specifications

Type	Rated Current (A)	Rated Insulation Voltage	Pole No.	Rated Operating Voltage	Ultimate Short Circuit Breaking Capacity Icu KA			Service Short Circuit Breaking Capacity Ics KA	
					AC380V (400)	AC660V (690)	DC250	AC380V (400)	AC660V (690)
CEM15-125E	12.5,16,20,25,32,40,50,63,80,100,125	660V	2P 3P 4P	380V 660V	15	-	-	7.5	-
CEM15-125S					25	-	20	16	-
CEM15-160S	16,20,32,40,50,63,80,100,125,160				35	8	20	18	-
CEM15-160H					50	10	40	25	-
CEM15-250S	100,125,160,180,200,225,250				35	10	40	18	-
CEM15-250M					50	16	40	30	-
CEM15-250H					65	18	40	48	-
CEM15-400S	200,225,250,315,350,400				35	16	40	18	-
CEM15-400M					50	20	40	30	-
CEM15-400H					65	25	40	48	-
CEM15-630S	400,500,630				50	20	40	30	-
CEM15-630M					65	25	40	48	-
CEM15-630H					80	30	40	60	-
CEM15-800S	500,630,700,800				50	20	40	30	-
CEM15-800M					65	25	40	48	-
CEM15-800H					80	30	40	60	-



CEM15-125



CEM15-400



CEM15-400



CEM15-800

CEM9 Moulded Case Circuit Breaker

◆ Specifications

Type	CEMF9-100	CEMF9-225 CEMW9-225	CEMF9-400 CEMW9-400	CEMF9-630 CEMW9-630		
Rated Current In(A)	16...100A	16...225A	63...400A	315...630		
Number of Poles	2	1 3	3	3		
Rated Voltage Ue(V)	AC-380V-690V					
Rated Insulating Voltage Ui(V)	AV690V					
Short-circuit Interrupting capacity Icu/Ics	AC	690V	-	14/7	35/18	35/18
		500V	-	14/7	35/18	35/18
		440V	21/10	50/25	100/75	100/75
		415V	25/13	70/70	100/75	100/75
		380V	25/13	70/70	100/75	200/150
		230V	65/33	100/100	200/150	20/10
		DC	250V	10/5	20/10	20/10
Dimensions(mm)		a	77	35 105	140	210
		b	124	153	258	275
		c	67	86	104	111
		ca	77	108	138	168
Automatic tripping device	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic



CEM9-100



CEM9-225

CEM4 Moulded Case Circuit Breaker

◆ Application

CEM4 MCCB is applicable to the circuit of AC 50/60Hz,rated insulation voltage 690V, rated current 16-250A, for distributing energy of electricity & infrequent operating & breaking circuit in normal conditions, protecting when circuit are overload, short circuit and under voltage.The products conform to GB14048.2,IEC60947-2 standard.

◆ Specifications

Type	Pole No.	Rated Operating Voltage (V)	Rated Current (A)	Icu(kA) 380/415V~	Lcs(kA) 380/415V~
CEM4-125	3P,4P	550V	16 25 40 63 100 125	25	12.5
CEM4-250	3P,4P	690V	25 40 63 100 160 250	36	36

Length x Width x Height	CEM4-125		CEM4-250	
	3P	75.6 × 120 × 74	105	105 × 200 × 105
	4P	101 × 120 × 74	140	140 × 200 × 105



CEM4-125



CEM4-250

CEW45 Intelligent Air Circuit Breaker

Moulded Case Circuit Breaker



CEW45-2000



CEW45-3200



CEW45-2000



CEW45-3200

◆ Protection

Distribution systems supplied by transformers
Distribution systems supplied by engine generator sets
Long cables in IT and TN system.

◆ Installation

In power switchboards
Fixed type and drawer type

All circuit breakers in the CEW45 range are suitable for isolation in compliance with IEC 60947-1 and 2.

◆ Specifications

Type		CEW45-2000	CEW45-3200	CEW45-4000	CEW45-6300	
Short-circuit Breaking Capacity Rated Ultimate	400V	80	100	100	120	
	690V	50	65	65	80	
Short-circuit Breaking Capacity Icu(KA)	400V	50	80	80	100	
	690V	40	50	50	70	
Rated Operation Short-circuit Breaking Capacity Ics(KA)	400V	50	80	80	100	
	690V	40	50	50	70	
Rated Short Time Withstand Current Icw(KA) Is		50	65	65	100	
Rated Current In(A)		400,630,1000,1250,1600,2000	2000,2500,2900,3200	3200,3900,4000	4000,5000,6000,6300	
No. of Poles	3 pole	●	●	●	●	
	4 pole	●	●	●	●	
Rated Voltage Ue(V)		400, 690	400, 690	400, 690	400, 690	
Rated Insulation Voltage Ui(V)		1000V	1000V	1000V	1000V	
Rated Current of N-pole In(A)		50% In, 100% In	50% In, 100% In	50% In, 100% In	50% In, 100% In	
Fix-disconnection Time		23-32ms	23-32ms	23-32ms	23-32ms	
Intelligent Controller	Standard Type (M)	●	●	●	●	
	Communication (H)	●	●	●	●	
Operation Performance	Electrical Life Time	500	500	500	500	
	Mechanical life Time	Non-maintenance	2500	2500	2000	2000
		Maintenance	10000	10000	8000	8000
Installation Type	Horizontal	●	●	●	●	
	Vertical	●	●	●	●	
	Fried	0	0	0	0	
	Drawer					

CEM11 Moulded Circuit Breaker

Moulded Case Circuit Breaker

◆ Application

CEM11 series circuit breaker has features of reliable working out and steady performance, reasonable structure, beautiful appearance and small volume etc. It can be used in the circuit of 50Hz or 60Hz, rated voltage up to 600V. It is used to distribute electric energy in distribution network and over-load or short circuit protection power equipment, and also can be used in transformation of circuit infrequency under the normal conditions.

◆ Specifications

Type	CEM11-30	CEM11-50	CEM11-60	CEM11-100	CEM11-250	CEM11-400	CEM11-630	CEM11-800	CEM11-1250
Pole No.	3	2,3	2,3	3	3	3	3	3	3
Rated Current (A)	3,5,10,15,20,30	10,15,20,30,40,50	60	60,70,100	125,150,175,200,225,250	250,300,350,400	500,600,630	600,700,800	800,1000,1200,1250
Rated Current of Frame (A)	30	50	60	100	250	400	630	800	1250
Rated Ultimate Breaking Capacity (KA)	1.5	5/10	5/10	18/25	18/25	25/50	35	35	85



CEM11-50



CEM11-100



CEM11-250



CEM11-100 3P

CEM12 Moulded Case Circuit Breaker

◆ Specifications



CEM12-60



CEM12-100

Type	CEM12-50	CEM12-60	CEM12-100	CEM12-250	CEM12-400	
Pole No.	3	3	3	3	3	
Rated Current (A)	5,10,15,20,30,40,50	60	60,75,100	125,150,175,200,225,250	250,300,350,400	
Testing Voltage(V)	600	600	600	600	600	
(P1/P2) Ica/Ics Breaking Capacity (kA)	230	5/2	5/2	25/13	30/15	50/25
	400	5/2	5/2	10/5	18/9	36/18
	440	2.5/1	2.5/1	10/5	15/8	25/13
	500	2.5/1	2.5/1	7/4	10/5	15/8

CEM13 Moulded Case Circuit Breaker

◆ Specifications



CEM13-50



CEM13-100

Type	CEM13-30	CEM13-50	CEM13-60	CEM13-100	CEM13-250	CEM13-400	CEM13-630	CEM13-800	
Pole No.	2 3	3 2	3 2	3 4	3 4	3 4	3 4	3 4	
Rated Current (A)	3,5,10,15,20,30	10,20,30,40,50	10,20,30,40,50,60	60,75,100	125,150,175,200,225,250	250,300,350,400	500,600,630	600,700,800	
Testing Voltage(V)	600	600	600	660	660	660	660	660	
Circuit Breaking Capacity (kA) AC (P1/P2)	240	5/5	5/10	5/10	50/42	50/42	85/60	85/60	85/60
	380	5/2.5	10/7.5	10/7.5	30/20	30/22	50/35	50/35	50/35
	415	2.5/1.5	7.5/5	7.5/5	7.5/5	25/20	50/30	50/30	50/30
	500	2.5/1.5	7.5/5	7.5/5	15/10	15/15	35/25	35/25	35/25
	600	-	2.5/1.5	2.5/1.5	10/5	15/10	25/18	25/18	25/18
	660	-	-	-	5/2.5	5/2.5	15/10	15/10	15/10

CEM17 Moulded Case Circuit Breaker

◆ Specifications

Type	Poles	Rate Current (A)	Rate Voltage Ui (V)	Interrupting Capacity(KA)42					
				AC Voltage					DC Voltage
				220/240V	380/415V	460V	550V	600V	
CEM17-32	2	3,5,10,15,20,30	660	5	2.5	2.5	1.5	1.5	2.5
CEM17-33	3	3,5,10,15,20,30	660	5	5.5	2.5	1.5	1.5	2.5
CEM17-52	2	5,10,15,20,30,40,50	660	25	10	10	7.5	5	5
CEM17-53	3	5,10,15,20,30,40,50	660	25	10	10	7.5	5	5
CEM17-62	2	60	660	10	7.5	7.5	2.5	2.5	5
CEM17-63	3	60	660	10	7.5	7.5	2.5	2.5	5
CEM17-102	2	15,20,30,40,50,60,75,100	660	50	25	25	15	10	10
CEM17-103	3	15,20,30,40,50,60,75,100	660	50	25	25	15	10	10
CEM17-202	2	125,150,175,200,225	660	50	30	25	18	15	20
CEM17-203	3	125,150,175,200,225	660	50	30	25	18	15	20
CEM17-402	2	250,300,350,400	660	85	45	42	35	30	40
CEM17-403	3	250,300,350,400	660	85	45	42	35	30	40
CEM17-603H	2	500,600	660	85	45	42	35	30	40
CEM17-603L	3	500,600	660	125	60	60	42	35	40
CEM17-803H	2	700,800	660	85	45	42	35	30	40
CEM17-803L	3	700,800	660	125	60	60	42	35	40



CEM17-63R



CEM17-33BM



CEM17-203B



CEM17-403B

CMB3 Motor Protection Circuit Breaker

◆ Application

This product is suitable in the up to AC 660V or 440V and current 0.1 to 16A. It can be for protection of overload and short circuit of 3-phase squirrel-cage motors, as a motor starter at full voltage. It is applied to protect the motor from under-voltage. It can also be used in operating AC single load and DC load. It monitors the fuse switch disconnection or acts as protection for phase failure.

This product range includes basic switch and 26 accessories. It complies with standard 1E060947-2.

◆ Specifications

Rated Current for Tripping (A)	0.16	0.25	0.40	0.63	1.0	1.6	2.5	4.0	6.3	10	16
	Rated of Fixed Current(A)	0.1~0.16	0.16~0.25	0.25~0.40	0.40~0.63	0.63~1.0	1.0~1.6	1.6~2.5	2.5~4.0	4.0~6.3	6.3~10
Code	05	09	13	17	21	25	29	33	37	42	46



CMB2-ME Motor Protection Circuit Breaker

◆ Application

CMB2-ME series motor protection circuit breaker are mainly used for the overload and short circuit protection of the motor in AC 50/60Hz, up to 660V, 0.1-80A, as a full-voltage starter to start and stop the motor, under the AC3 load or for the overload and short circuit protection of the circuit and power equipment in the power distribution network.

◆ Specifications

Type	Standard Power Ratings of 3-phase Motors 50/60Hz in Category AC-3						Setting Range
	220V KW	380V KW	415V KW	440V KW	500V KW	660V KW	
CMB2-ME01/RS01	-	-	-	-	-	-	0.1-0.16
CMB2-ME02/RS02	-	-	-	-	-	-	0.16-0.25
CMB2-ME03/RS03	-	-	-	-	-	-	0.25-0.4
CMB2-ME04/RS04	-	-	-	-	-	0.37	0.4-0.63
CMB2-ME05/RS05	-	-	-	0.37	0.37	0.55	0.63-1
CMB2-ME06/RS06	-	0.37	-	0.55	0.75	1.1	1-1.6
CMB2-ME07/RS07	0.37	0.75	0.75	1.1	1.1	1.5	1.6-2.5
CMB2-ME08/RS08	0.75	1.5	1.5	1.5	2.2	3	2.5-4
CMB2-ME10/RS10	1.1	2.2	2.2	3	3.7	4	4-6.3
CMB2-ME14/RS14	2.2	4	4	4	5.5	7.5	6-10
CMB2-ME16/RS16	3	5.5	5.5	7.5	7.5	9	9-14
CMB2-ME20/RS20	4	7.5	9	9	9	11	13-18
CMB2-ME21/RS21	5.5	11	11	11	11	15	17-23
CMB2-ME22/RS22	5.5	11	11	11	15	18.5	20-25
CMB2-ME32/RS32	7.5	15	15	15	18.5	26	24-32



CMB2-ME enclosed type

CMB-M Motor Protection Circuit Breaker

◆ Application

CMB series motor protection circuit is mainly used for the overload and short circuit protection of the motor in AC 50/60Hz, up to 660V 0.1-80A power circuit, as a full-voltage starter to start and cut off the motor under the AC3 load or for overload and short circuit protection of the circuit and power equipment in the power distribution network.

◆ Specifications

Type	Standard Power Ratings of 3-phase Motors 50/60Hz in Category AC-3						Setting Range
	220V KW	380V KW	415V KW	440V KW	500V KW	660V KW	
CMB1-M01	-	-	-	-	-	-	0.1-0.16
CMB1-M02	-	-	-	-	-	-	0.16-0.25
CMB1-M03	-	-	-	-	-	-	0.25-0.4
CMB1-M04	-	-	-	-	-	0.37	0.4-0.63
CMB1-M05	-	-	-	0.37	0.37	0.55	0.63-1
CMB1-M06	-	0.37	-	0.55	0.55	1.1	1-1.6
CMB1-M07	0.37	0.75	1.1	1.1	1.1	1.5	1.6-2.5
CMB1-M08	0.75	1.5	1.5	1.5	2.2	3	2.5-4
CMB1-M09	1.1	2.2	2.2	3	3.7	4	4-6
CMB1-M10	4	4	4	4	5.5	7.5	6-10
CMB1-M14	2.2	7.5	7.5	7.5	10	11	10-16
CMB1-M20	5.5	10	9	9	11	15	16-20
CMB1-M21	5.5	11	11	11	15	18.5	20-25
CMB1-M22	-	-	-	-	-	-	0.1-0.6-16
CMB2-M01/RS01	-	-	-	-	-	-	0.16-0.25
CMB2-M02/RS02	-	-	-	-	-	-	0.25-0.4
CMB2-M03/RS03	-	-	-	-	-	0.37	0.4-0.63
CMB2-M04/RS04	-	-	-	0.37	0.37	0.55	0.63-1
CMB2-M05/RS05	-	0.37	-	0.55	0.75	1.1	1-1.6
CMB2-M06/RS06	0.37	0.75	0.75	1.1	1.1	1.5	1.6-2.5
CMB2-M07/RS07	0.75	1.5	1.5	1.5	2.2	3	2.5-4
CMB2-M08/RS08	1.1	2.2	2.2	3	3.7	4	4-6.3
CMB2-M10/RS10	2.2	4	4	4	5.5	7.5	6-10
CMB2-M14/RS14	3	5.5	5.5	7.5	7.5	9	9-14
CMB2-M16/RS16	4	7.5	9	9	9	11	13-18
CMB2-M20/RS20	5.5	11	11	11	11	15	17-23
CMB2-M21/RS21	5.5	11	11	11	15	18.5	20-25
CMB2-M22/RS22	7.5	15	15	15	18.5	26	24-32
CMB3-M06	-	0.37	-	0.55	0.75	1.1	1-1.6
CMB3-M07	0.37	0.75	1.1	1.1	1.1	1.5	1.6-2.5
CMB3-M08	0.75	1.5	1.5	1.5	2.2	3	2.5-4
CMB3-M10	1.1	2.2	2.2	3	3.7	4	4-6
CMB3-M14	2.2	4	4	4	5.5	7.5	6-10
CMB3-M20	4	7.5	7.5	7.5	10	11	10-16
CMB3-M25	5.5	11	11	11	15	18.5	16-25
CMB3-M40	11	18.5	22	22	25	33	25-40
CMB3-M63	15	30	33	33	40	55	40-63
CMB3-M80	22	40	45	45	55	63	56-80



CEMB2-M16



CEMB2-RS07



CEMB2-M63

CMB3V Motor Protection Circuit Breaker

◆ Application

The circuit breaker is suitable for the circuit with rated AC voltage up to 660V, frequency 50 or 60Hz rated from 0.1 to 0.63A. It is used for overload and short-circuit protection in the motor with small capacity and also be used for direct start of motor and circuit of uninfrequent operation under normal conditions. It Conforms With IEC157-1 IEC292-1 GB1497-85.

◆ Specifications

Type	CMB3V1	CM B3V3	CMB3V4
Pole No.(P)	3	3	3
Rated voltage(V)	20	32	63
The setting range of trip current (A)	0.1-0.16 0.16-0.25 0.25-0.4 0.4-0.63 0.63-1 1-1.6 1.6-2.5 2-3.2 2.5-4 3.2-5 4-6.3 5-8 6.3-10 8-12.5 10-16 14-20	1-1.6 1.6-2.5 2.5-4 4-6.3 6.3-10 8-12.5 10-16 12.5-20 16-25 22-32	6.3-10 10-16 16-25 2.2-32 28-40 36-50 45-63 45-56
Switch Capacity (effective value) motor (KW)	220V	1.5/0.95	10/0.5
	380V	1.5/0.95	10/0.5
	660V	1.0/0.95	3/0.9
Power of controlled motor (KW)	220V	14	16
	380V	13	26
	660V	1	0.6
Protective feature	1.05Ie/1.2Ie/1.2Ie Not act with in 2hrs/Act with in 2hrs /Action snap		
Weight(kg)	0.285	0.52	1.2



CMB3U Motor Protection Circuit Breaker

◆ Application

The product is suitable to be used in circuit of rated voltage up to AC 660V 50/60Hz, rated current from 0.1A to 63A. It is applicable for protection of overload & short circuit of 3 phase squirrel-cage motors. It also can be used as direct starter to start the motor and a switch for changeover the circuit under normal conditions.

◆ Specifications

Setting Range (A)	CMB3U-1300		CMB3U-1600		
	Power of Controlled Motor (KW)	Rated Current (A)	Setting Range (A)	Power of Controlled Motor (KW)	Rated Current (A)
0.1-0.16	-	0.16	1-1.6	0.37/0.55	1.6
0.16-0.24	0.06	0.24	1.6-2.4	0.75	2.4
0.24-0.4	0.09/0.12	0.4	4-6	1.1/1.5	4
0.4-0.6	0.12/0.18	0.6	6-10	2.2	6
0.6-1	0.25	1	10-16	3/4	10
1-1.6	0.37/0.55	1.6	16-25	5.5/7.5	16
1.6-2.4	0.75	2.4	25-32	11	25
2-3.2	1.1	3.2	28-40	15	32
2.4-4	1.1/1.5	4	36-52	18.5	40
3.2-5	1.5/2.2	5	45-63	22	52
4-6	2.2	6	-	-	63
5-8	3	8	-	-	-
6-10	3/4	10	-	-	-
8-13	4/4.5	13	-	-	-
10-16	7.5	16	-	-	-
14-20	7.5	20	-	-	-
18-25	11	25	-	-	-



CEM6 Moulded Case Circuit Breaker

◆ Application

CEM6 MCCB is applicable to the circuit of AC 50/60Hz , rated insulation voltage 690V, rated current 25-800A, for distribute energy of electricity & infrequent operating & breaking circuit under normal conductions, the product conforms to GB14048.2, IEC60947-2 standard.

◆ Specifications

Type	Pole No.	Rated Operating Voltage (V)	Rated Current (A)	Icu(kA) 380/415V~	Lcs(kA) 380/415V~
CEM6-125	1 3	660	25 32 40 50 60 80 100 125	25	75%Icu
CEM6-160	3	660	125 160	25	
CEM6-250	3	660	160 200 250	25	
CEM6-400	3	660	315 400	50	
CEM6-630	3	660	500 630	50	
CEM6-800	3	660	800	50	



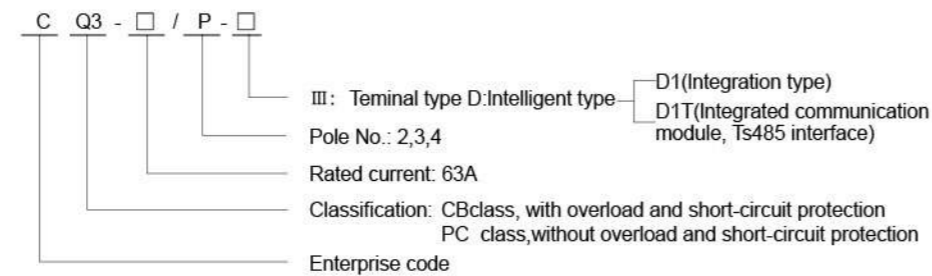
CQ3- III /D Dual Power Automatic Transfer Switch

◆ General

CQ3 type A .T.S intelligent dual power automatic transfer switch (hereinafter referred to as the switch), is a kind of emergency continued power switch, the switch is composed of circuit breaker and intelligent controller. This product employs the latest micro computer control systems core; it has advantages of electrom agnetic compatibility, strong immunity, work reliably and stably for long tem, when equipped with a largescreen LCD back light display, it can provide users with favorable man-machnne interface, convenient and intelligent operation. Therefore, it is an ideal new type of automatic transfer switching equipment with mechanical-electrical integration.

The products are in conformity with standards of GB/T 14048.11-2008"Low-voltage switchgear and control equipment, NO.6 part; Multifunctional NO.1: automatic transfer switches"

◆ Model and meanning



Note:If needing split type, it should be customized.

◆ Application

This switch is suitable for the double-circuit power supply system of AC50/60Hz, rated voltage below 1000V and rated current below 63A, to realize automatic or manual trans fer between normal (N) and standby power(R),(Main and standby power supply can be a grid, starting generator, battery, main power supply is defined by the users)then to get an unmanned transformer station for dual-power users.The product is applicable to the provisions of the state for class load user, where power failure is impemissible such as high-rise building, post and telecommunications, coal ship, ine, medical, facilities, airports, fire protection, metallurgy, chemical industry, textile, petrol.

◆ Normal working conditions

- The air temperature is -5℃ ~+40℃ , the average value with in 24 hours should not be over 35℃ .
- The relative humidity should not exceed 50% at max temperature +40 ℃ , the higher relative humidity is pemissible at lower temperature, for instance, 90% at +20℃ , but the condensation will be produced due to temperature change, which should be considered.
- The altitude of mounting place should not exceed 2000m.
- Classification:IV Inclination is not more than ± 23° .
- Pollution grade: 3.
- If beyond above mentioned conditions, users should negotiate with the manufacturer, If the product is used for mining, shore oil and nudear power station, the technical agreement shall be signed separately.

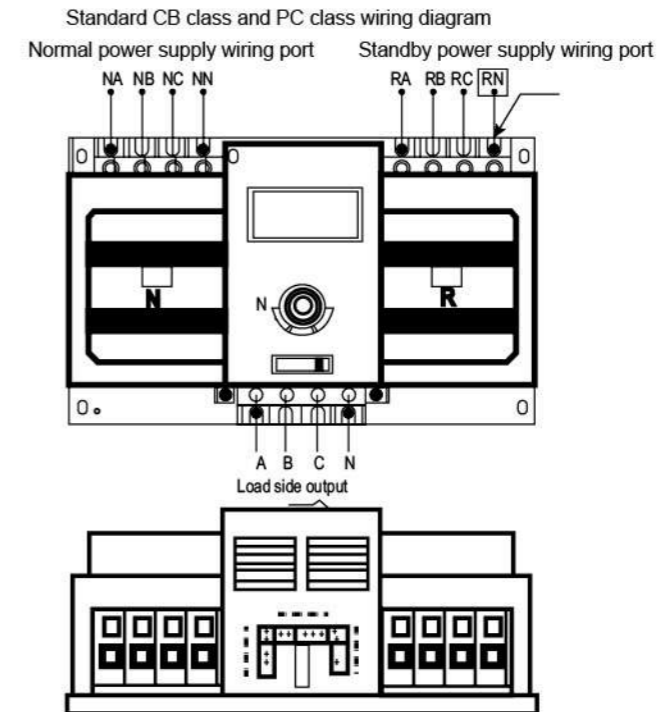
◆ Structure features and functions

The CQ3 switch is driven by a single motor driving, simple structure, stable and reliable switching, no noise, small impact force.The operator drive motor drive motor is performed only by current switching instant, no need to provide working current steady-state operation, obvious enrgy saving, No temperature rise of fever, node welding and motor burnout phenomenon;switch with mechanical interlock protection,to ensure that the main power supply is not switched on at the same time, keep main power and standby power reliable work, mutual non-interference.The switch can load switch, can be used to manually switch handle emergency, Switch has electrical or mechanical closing instructions S.T.S control power are from the main power supply of AC 220V(Without additional control current).

The intelligent controller also provides functions with loss of pressure, phase failure control, under-voltage, delay control, generator control, fire reset fe edback signal and so on, and strong anti-interference ability, having auto-charge & auto-recovery, auto-charge & non-auto -fecovery and mutual standby three qoekinf moswal with common power supply, standby power supply, power, standby power supply;power standby power is divided into three kinds of stability working state.

- Easy installation, control loop uses plug-in terminal connection.
- Available special handle for manual conversion in manual mode.

◆ Wiring princple drawing



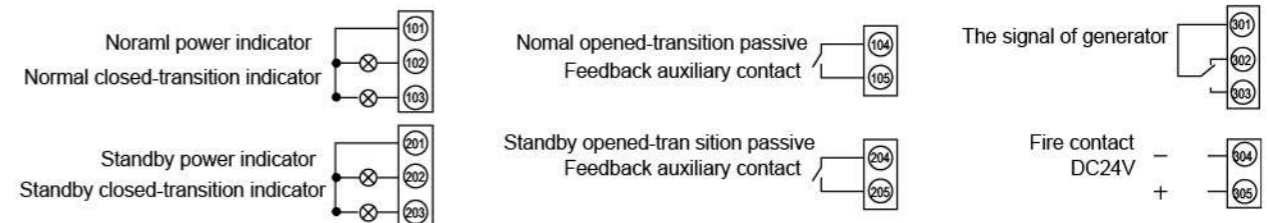
Note ecternal signal port of the user

Terminal type(III type):

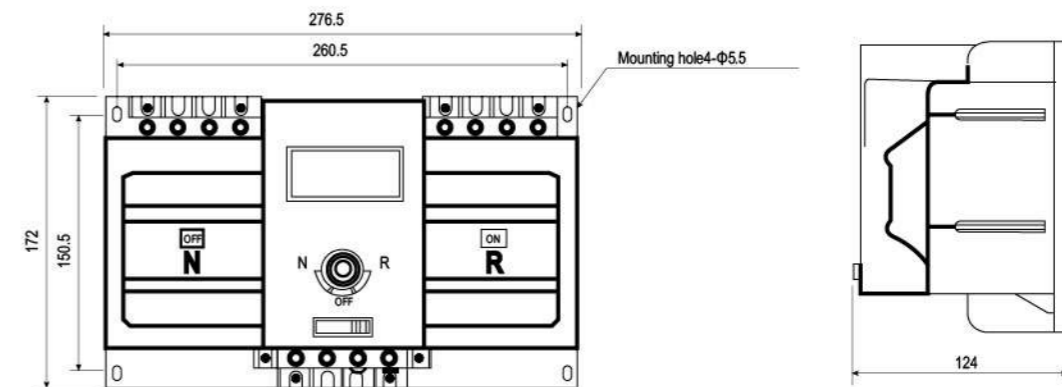
- 1.Product standard port 101-103,201-203;
- 2.If the user needs other ports, to specify when ordering;
- 3.Terminal type is not with fire-fighting function;
- 4.The signal lamp AC220V, users according to the requirements to connect by themselves.

Intelligent type(D type):

- 1.Product standard port 101-103,201-203,301-305;
- 2.If the user needs feedback signal port (104-105,204-205), to specify when ordering.



◆ Overall and Installation Dimension



Automatic Transfer Switch ATS01

◆ CB Grade Selection

ATS01	A	-100	/80	4	CB	R	X
CEA Series	Controller	Frame	Rated	Pole	Electrical	Operating mode	Auxiliary function
Automatic transfer switch	A	Current	Current	2	Grade	R	X
	B			3	CB	S	F
	D			4		I	T I Tripper

Classified by controller: 1)End terminal type 2)Basic type 3)Intelligent type
 Classified by frame current grade: 63, 100, 160, 250, 400, 630, 800, 1250, 1600
 Classified by rated current: Users choose according to different current grade and different tripping device (reference to MCCB series)
 Selected by Poles: 2P(Only for C65 series), 3P, 4P(For all series)
 Classified by electrical grade: CB - with short circuit & overload protection
 Classified by operating code: R-automatic put-in & automatic restore, S-automatic put-in but non-automatic restore, T- mutual backup
 Classified by auxiliary function: X- fire control function , T- telecommunication base station particular use
 F-feedback signal function I- current monitor modular type (only for type D controller choice)

◆ Main technical parameters

Type	Controller	Pole	Electric Grade	Available	Trip available
ATS01-63	A,B,D	2P,3P,4P	CB	C65N, C65H, C65L	Curve C, D
ATS01-100	A,B,D	3P,4P		NSX-F, NSX-N, NSX-H	Thermo-magnetic TM Electronic MIC2.2
ATS01-160	A,B,D	3P,4P		NSX-F, NSX-N, NSX-H	Thermo-magnetic TM Electronic MIC2.2
ATS01-250	A,B,D	3P,4P		NSX-F, NSX-N, NSX-H	Thermo-magnetic TM Electronic MIC2.2
ATS01-400	B,D	3P,4P		NSX-F, NSX-N, NSX-H	MIC2.3, MIC5.5E, MIC1.3M
ATS01-630	B,D	3P,4P		NSX-F, NSX-N, NSX-H	MIC2.3, MIC5.5E, MIC1.3M
ATS01-800	B,D	3P,4P		NSX-N, NSX-H	MIC2.0, MIC5.0
ATS01-1000	B,D	3P,4P		NSX-N, NSX-H	MIC2.0, MIC5.0
ATS01-1250	B,D	3P,4P		NSX-N, NSX-H	MIC2.0, MIC5.0
ATS01-1600	B,D	3P,4P		NSX-N, NSX-H	MIC2.0, MIC5.0

◆ PC Grade Selection

ATS01	A	-100	/100*	4	PC	R	X
CEA Series	Controller	Frame	Rated	Pole	Electrical	Operating mode	Auxiliary function
Automatic transfer switch	A	Current	Current	3	Grade	R	X
	B**			4	PC	S	F
	D					I	I

Classified by controller: 1)End terminal type 2)Basic type 3)Intelligent type
 Classified by frame current grade: 63, 100, 160, 250, 400, 630, 800, 1250, 1600
 Classified by rated current: Users choose according to different current grade and different tripping device (reference to MCCB series)
 Selected by Poles: 2P(Only for C65 series), 3P, 4P(For all series)
 Classified by electrical grade: CB - with short circuit & overload protection
 Classified by operating code: R-automatic put-in & automatic restore, S-automatic put-in but non-automatic restore, T- mutual backup
 Classified by auxiliary function: X- fire control function , T- telecommunication base station particular use
 F-feedback signal function I- current monitor modular type (only for type D controller choice)

◆ Main technical parameters

Type	Controller	Pole	Electric Grade	Available
ATS01-32~100	A,B,D	3P,4P	PC	INT Series
ATS01-100	A,B,D	3P,4P		NSX-NA
ATS01-160	A,B,D	3P,4P		NSX-NA
ATS01-250	A,B,D	3P,4P		NSX-NA
ATS01-400	B,D	3P,4P		NSX-NA
ATS01-630	B,D	3P,4P		NSX-NA

Automatic Transfer Switch BTS01

◆ Product Features

- Good safety
- With double-row composite contact, levelly-pulling opening and closing mechanism, micro motor energy pre-stored technology as well as microelectronic control technology, it can basically realize no flashover (no arc chute)
- Adopt reliable mechanical and electrical interlocking
- Due to zero crossing technology, it can set to zero compulsorily under emergency (Cut off double circuit power synchronously)
- With visible indication of on/off position and padlocking function, it can get the space between power supply and load.
- High reliability, service life reaching 8000 times.
- Being designed with electromechanical integration, the switch transfers accurately, flexibly and smoothly. Superior electromagnetism compatibility, strong capability to resist the interference, no interference to outside
- High automation
- The switch has multi-circuit input/output interface that can realize PLC remote control as well as automation of system.
- The switch needn't any external control elements.
- Nice appearance, small volume, light weight
- The product conforms to following standards: GB/T 14048.11-2008/IEC60947-6-1 Automatic Transfer Switching Equipment, GB/T14048.3-2008/IEC60947-1 Low - voltage Switchgear and Controlgear General Rules as well as GB/14048.3-2008/IEC60947-3 Low-voltage Switchgear and Controlgear--Low-voltage Switches, Disconnectors, Switch-disconnectors and Fuse-combination units.

Type	Controller	Pole	Electric Grade	Available
ATS01-32~100	A,B,D	3P,4P	PC	INT Series
ATS01-100	A,B,D	3P,4P		NSX-NA
ATS01-160	A,B,D	3P,4P		NSX-NA
ATS01-250	A,B,D	3P,4P		NSX-NA
ATS01-400	B,D	3P,4P		NSX-NA
ATS01-630	B,D	3P,4P		NSX-NA

◆ Main technical indexes

Conventional heating current	20A	40A	60A	80A	100A
Rated insulation voltage Ui	690V				
Rated impaction withstand voltage Uimp	8KV				
Rated working voltage Ue	AC380V				
Rated working current Ie	20A	63A	80A	100A	
Load character	AC33IB				
Rated making capacity	10Ie				
Rated breaking capacity	8Ie				
Rated limiting short-circuit current	50KA				
Rated short time withstand current Ie	7KA				
Change-over time	1S				
Voltage of control power supply	AC220V				
Energy consumption of the motor	40W				
Weight Kg	4.2	4.3	4.4	4.5	4.5

◆ Main technical indexes

Conventional heating current	125A	160A	250A	400A	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	
Rated insulation voltage Ui	800V												
Rated impaction withstand voltage Uimp	8KV						12KV						
Rated working voltage Ue	AC440V												
Rated working current Ie	AC-32B	125	160	250	400	630	800	1000	1000	1250	2000	2000	2500
Rated making capacity		17KA		25.2KA						34KA			
Rated breaking capacity		20KA							50KA				
Rated limiting short-circuit current		10KA		12.6KA					20KA				
Rated short time withstand current IS		2S							3S				
Change-over time	AC220V												
Voltage of control power supply	AC220V												
Energy consumption of the motor	Start	300W	325W	355W	400W	440W	600W						
	Normal	55W	62W	74W	90W	98W	120W						
Weight Kg	4-pole	7.5	8.8	9	16.5	17	32	36	40	49	95	98	135



Load-isolation switch LIS Series

Moulded Case Circuit Breaker



LIS-63/3

◆ Application

- LIS Load-isolation switch can operate under the following conditions.
 - Altitude not more than 2000m.
 - The range of ambient temperature is from 5°C to 40°C .
 - Relative humidity not more than 95%.
 - The environment without any explosive medium.
 - The environment without any rain or snow attacking.

Note: If the product is expected to be used in the environment where temperature is over +40°C or below -5°C ~ -45°C , users shall tell it to the manufacturer.

The products are in conformity with GB/T14048.3-2008 Low-voltage switchgear and controlgear - Part 3: Switches disconnectors switch-disconnectors and fuse-combination units.



LIS-160/4



LIS-400/4

Conventional heating current	63A 100A	125A 160A	200A	250A	315A	400A	500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3150A	4000A
Rated insulation voltage Ui(V)	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
Dielectric strength																
Rated impaction withstand voltage Uimp KV (Installation sort IV)	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rated working current Ie(A)																
400V AC21B	63/100	125/100	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	3150
AC22B	63/100	125/100	200	250	315	400	500	630	800	1000	1250	1250	2000	2000	2500	2500
AC23B	50/80	125/160	200	250	315	400	500	630	800	1000	1000	1000	1250	1250	1250	1250
750V AC21B	63/100	125/160	200	250	315	400	500	500	800	1000	1250	1600	2000	2500	3150	4000
AC22B	63/80	125	160	160	315	315	315	315	630	800	800	800	1000	100	2500	2500
AC23B	40/63	80	100	125	200	200	200	200	250	500	500	500	800	800	800	1000
Rated short-time withstand current Icw(KA Rms)0.1S/1.0S	3	3	3	3	20	20	20	20	30	30	30	30	37.8	37.8	37.8	48
Rated breaking capacity Icm(A Rms)AC22B 400V																
Rated making capacity Icn(A Rms)AC23 400V	400	1000	1600	2000	2500	3150	4000	5000	6300	3000	3750	4800	6000	7500	9450	
Making and breaking capacity	189	375/480	600	750	945	1200	1500	1880	2400	3000	3750	4800	6000	7500	9450	
Rated short-circuit making capacity Icm (KA peak value)	1.7	3.375	5.63	5.63	23	23	23	23	35	35	35	35	79.38	79.38	79.38	
Mechanical life (rotation operation time)	1700	1400	1400	1400	1400	1400	800	800	500	500	500	500	500	500	300	300
Electrical life (rotation operation time)	300	200	200	200	200	200	200	200	100	100	100	100	100	100	100	100
Operation moment (Nm)	3.5	6.5	14.4	14.4	18	18	18	18	35	35	35	35	60	60	60	110
Weight (Kg) 3 poles	0.37	1	2	2	3.5	3.5	4	4	10.5	10.5	10.5					
4 poles	0.41	1.5	2.5	2.5	4	4	4.5	4.5	13	13	13					



D PRODUCTS CONTENTS
SERIES

CEA ELECTRIC | www.ceaworld.com |



Contactor

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| 02 CEC2N AC Contactor | 12 CEC8 AC Contactor |
| 03 CEC1 AC Contactor | 13 CEC9 AC Contactor |
| 04 CEC2 AC Contactor | 14 CEC10 AC Contactor |
| 04 CEC2 4P AC Contatcto | 15 CEC12 AC Contactor |
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CEC2 AC Contactor

◆ Application

CEC2 series AC contactors are suitable for using in the circuits up to the rated voltage 660VAC 50Hz or 60Hz, rated current up to 95A, for making, breaking, frequently starting & controlling the AC motor. Combined with the auxiliary contact block, timer delay & machine-interlocking device etc. It becomes the delay conductor, mechanical interlocking conductor, star-delta starter with the thermal relay, it is combined into the electromagnetic starter. The conductor is produced according to IEC 60947, EN60947.

◆ Specifications

Type		CEC2-09	CEC2-12	CEC2-18	CEC2-25	CEC2-32
Rated Working Current (A)	AC3	9	12	18	25	32
	AC4	3.5	5	7.7	8.5	12
AC3 Capacity of Phase 3 Squirrel-cage Motor AC3(kW)	220/230V	2.2	3	4	5.5	7.5
	380/400V	4	5.5	7.5	11	15
	415V	4	5.5	9	11	15
	500V	5.5	7.5	10	15	18.5
	660/690V	5.5	7.5	10	15	18.5
Rated Heat Current(A)		20	20	32	40	50
Electrical Life	AC3 × 10 ⁴	100	100	100	100	80
	AC4 × 10 ⁴	20	20	20	20	20
Mechanical Life × 10 ⁴		1000	1000	1000	1000	810
No. of The Contacts		3P+NO				

Type		CEC2-09	CEC2-12	CEC2-18	CEC2-25	CEC2-32
Rated Working Current (A)	AC3	40	50	65	80	95
	AC4	18.5	24	28	37	44
AC3 Capacity of Phase 3 Squirrel-cage Motor AC3(kW)	220/230V	11	15	18.5	22	25
	380/400V	18.5	22	30	37	45
	415V	22	25	37	45	55
	500V	22	30	37	55	55
	660/690V	30	33	37	45	55
Rated Heat Current(A)		60	80	80	125	125
Electrical Life	AC3 × 10 ⁴	80	60	60	60	60
	AC4 × 10 ⁶	15	15	15	10	10
Mechanical Life × 10 ⁶		800	800	800	600	600
No. of The Contacts		3P+NC+NO				

◆ Standard Control Circuit Voltage

Volts(VAC)	24	42	48	110	220	230	240	380	400	415	440	550	660
50Hz	B5	D5	E5	F5	M5	P5	U6	Q5	V5	N5	R5	S5	Y5
60Hz	B6	D6	E6	F6	M6	-	U6	Q6	-	-	R6	-	-
50/60Hz	B7	D7	E7	F7	M7	P7	U7	Q7	V7	N7	R7	-	-



CEC2N AC Contactor

◆ Application

- Conformity to IEC60947
- Tropicalized as standard
- High making and breaking capacity
- All model contactors incorporate with 1 N/O and 1 N/C aux.
- Contacts as standard

◆ Specifications

Type	AMPS	AC3 415V(N.L)			AC3 415V(LL)			Aux. Contact Fitted as Standard	
		KW	HP	AMPS	KW	HP	AMPS	NO	NC
CEC2N09	25	5.5	7.5	12	4	5.5	9	1	1
CEC2N12	25	9	12	18	5.5	7.5	12	1	1
CEC2N18	32	11	15	25	9	12	18	1	1
CEC2N25	40	15	20	32	11	15	25	1	1
CEC2N32	50	22	30	40	15	20	32	1	1
CEC2N40	60	25	35	50	22	30	40	1	1
CEC2N50	80	37	50	65	25	35	50	1	1
CEC2N65	80	45	60	80	37	50	65	1	1
CEC2N80	125	55	75	105	45	60	80	1	1
CEC2N95	125	57	77	110	45	60	85	1	1

Note: *AC1 duty=Resistive loads power factor>0.95 at 40° C ambient temperature.
Replace(*)with control coil voltage

Volts	Rated Current	24	42	48	110	220	24
CEC2N	AC 50/60Hz	B	D	E	F	M	U



CEC1 AC Contactor

◆ Application

CEC1 AC contactor is suitable in electrical system with AC 50/60Hz, rated operational voltage up to 660V. In AC-3 usage, rated operational voltage up to 380V, rated operational current up to 630A to make or break remote motors or system. They form electromagnetic starters with suitable thermal overload or phase-failure. They are made according to IEC60947, B85424 & VDE 0660.

The contactor is a straight motion mechanism having double-breaking contacts. The auxiliary contacts are arranged 2NO, 2NC at most. It is employed the flexible locking connection between the contact support and core, there are no arc-isolated panel in the $I_e \leq 22A$ contactors. In the $\geq 32A$ conductors. There are moulded arc-chute with arc-isolated panel. All can be mounted by screws, $I_e \leq 32A$ conductor also by installation rail.

◆ Specifications

Type	Rated Thermal Current(A)	Rated Operation Current(A)		Controllable Power of Motor(KW)				Type of Auxiliary Contact
				AC-3		AC-4		
		380V	660V	380V	660V	380V	660V	
CEC1-30	20	9	7	4	5.5	1.4	2.4	NO NC 1NO+1 NC 2NO+2 NC
CEC1-31	20	12	8.5	5.5	7.5	1.9	3.3	
CEC1-32	30	16	12.5	7.5	11	3.5	6	
CEC1-33	30	22	16.5	10	15	4	6.6	
CEC1-34	55	32	24	15	22	7.5	13	
CEC1-35	55	38	30	18.5	22	9	15.5	
CEC1-40	20	9	7	4	5.5	1.4	2.4	
CEC1-41	20	12	8.5	5.5	7.5	1.9	3.3	
CEC1-42	30	16	12.5	7.5	11	3.5	6	
CEC1-43	30	22	16.5	10	15	4	6.6	
CEC1-44	55	32	24	15	22	7.5	13	
CEC1-45	55	38	30	18.5	22	9	15.5	
CEC1-46	80	45	40	22	37	12	20.8	
CEC1-47	80	63	60	30	55	14	24.3	
CEC1-48	100	75	60	37	55	17	29.5	
CEC1-49	100	85	80	45	75	21	36	
CEC1-50	160	110	95	55	90	27	46.9	
CEC1-51	160	140	120	75	110	35	6	
CEC1-52	200	170	160	90	150	38	66	
CEC1-53	210	205	165	110	160	50.58	86	
CEC1-54	300	250	230	132	220	66	100	
CEC1-55	300	300	260	160	250	81	114	
CEC1-56	400	400	380	200	355	160	140	
CEC1-68	630	630	600	335	560	-	278	



CEC1-30/31



CEC1-48/49



CEC1-54/55

CEC2 AC Contactor

◆ Specifications

Type	CEC2-115	CEC2-150	CEC2-170	CEC2-205	CEC2-245	CEC2-300	CEC2-410	CEC2-475	CEC2-620	
Rated Working Current (A)	AC3	115	150	170	205	245	300	410	475	620
	AC4	52	60	75	85	105	117	138	147	180
AC3 Capacity of Phase 3 Squirrel-cage Motor AC3(kW)	220/230V	30	40	55	63	75	100	110	147	200
	380/400V	55	75	90	110	132	160	220	265	335
	415V	59	80	100	110	132	180	220	280	375
	500V	75	90	110	129	160	200	250	355	400
	660/690V	80	100	110	129	160	220	280	355	450
Rated Heat Current(A)		200	250	250	275	315	400	500	700	1000
Electrical Life	AC3 × 10 ⁴	200	60	60	50	50	50	30	30	20
	AC4 × 10 ⁴	15	15	15	15	15	15	8	8	5
Mechanical Life × 10 ⁶		300	300	300	300	300	300	100	100	1000



CEC2-115

CEC2-205

CEC2-620

CEC2 4P AC Contactor

◆ Specifications

Type	AC-3 AC-1 440V ≤ 40°C (A)		Rated Non-conductive Voltage	Power Poles	
	Control		Control	Circuit: A	C
CEC2-09004	9	25	690	4	-
CEC2-09008				2	2
CEC2-12004	12	25	690	4	-
CEC2-12008				2	2
CEC2-25004	25	40	690	4	-
CEC2-25008				2	2
CEC2-40004	40	60	690	4	-
CEC2-40008				2	2
CEC2-50004	50	80	690	4	-
CEC2-50008				2	2
CEC2-65004	65	80	690	4	-
CEC2-65008				2	2
CEC2-80004	80	125	690	4	-
CEC2-80008				2	2
CEC2-95004	95	125	690	4	-
CEC2-95008				2	2



CEC2-09004 4P



CEC2-50004 4P

CEC3 AC Contactor

◆ Application

The contactor is suitable for using in the circuits up to the rated voltage 660VAC 50Hz or 60Hz, rated current 630A, for making and breaking, and for frequent starting and controlling the motor. After combined with the mechanical interlocking device, it becomes 3TD series convertible contactor for controlling, starting, breaking and reversing of the motor. The products comply with IEC609 47& VDE0660.

◆ Specifications

Type	Rated Thermal Current(A)	Rated Operation Current at 380V (A)	Rated Operation Current at 660V(A)	The power of Controllable Motor (KW)		Type of Auxiliary Contact
				380V	660V	
CEC3-40	22	9	7.2	4	5.5	1NO 1NC 1NO+1NC 2NO+2NC
CEC3-41	22	12	9.5	5.5	7.5	
CEC3-42	35	16	13.5	7.5	11	
CEC3-43	35	22	13.5	11	11	
CEC3-44	55	32	18	15	15	



CEC3-40



CEC3-44



CEH1-40



CEH1-82

CEH1 Auxiliary Contactor

◆ Application

The auxiliary contactors is the auxiliary suited by controlled circuit with voltage is AC 50/60Hz, 660V and DC 660V. They control all kinds of magnetic coil and amplify or transfer signal to relative controlled element simultaneously. They are characterized by high performance & long service life

◆ Specifications

Type	Rated Volatage	Rated Operation Current(A)		Controllable Motor Power AC3(KW)	Type of Contact	
		Le=AC11、AC14	DC11		No	Nc
CEH1-30	110V	-	0.9	-	4	-
31-OA					3	1
22-OA					2	2
13-OA					1	3
04-OA					-	4
CEH1-40/CHE1-80 40-OA	220V	10	0.45	2.2	4	-
31-OA	380V	6	-	4	3	1
22-OA					2	2
13-OA					1	3
04-OA					-	4
CHE1-42/CHE1-82 80-OA	440V	-	0.25	4	-	4
71-OA	660V	2	-	4	8	-
62-OA					7	1
53-OA					5	2
44-OA					5	3
					4	4

CE4-D Auxiliary Contact Blocks

◆ Application

CE2-D time delay auxiliary contact blocks are combined with CEC2 AC contact & CE4 Auxiliary contact block into CESD2 star-delta reduced voltage starter to start motor.

◆ Specifications

Type	Delay Range	No . of The Delay Contacts
CE2-DT0	0.1~3S	NO+NC
CE2-DT2	0.1~30S	
CE2-DT4	10~180S	
CE3-DR2	0.1~30S	
CE3-DRO	0.1~3S	
CE3-DR4	10~180S	



CE4-D



CE2-D

Bobbin of AC Contactor



CEX1-D2

CEX1-D4

CEX1-D6



CEF1-FF

◆ Specifications

CEX1-D2	Uses for Contactor	CEC2-09 to CEC2-18
CEX1-D4	Uses for Contactor	CEC2-25 to CEC2-32
CEX1-D6	Uses for Contactor	CEC2-40 to CEC2-95
CEF1-FF	Uses for Contactor	CEC6-115 to CEC6-150
CEF1-FG	Uses for Contactor	CEC6-185 to CEC6-225
CEF1-FH	Uses for Contactor	CEC6-265 to CEC6-330
CEF1-FJ	Uses for Contactor	CEC6-400
CEF1-FK	Uses for Contactor	CEC6-500
CEF1-FL	Uses for Contactor	CEC6-630
CEF1-FK (1)	Uses for Contactor	CEC6-780



CEF1-FJ

CECP2 DC Contactor

◆ Application

for motor control, from 6 to 95A(AC-3)for the control of distribution circuits, from 16 to 125A(AC-1)Control circuit DC

◆ Specifications



Basic Reference. Complete With Code Indicating Control Circuit Voltage	Standard Power Ratings of 3-phase Motors 50/60Hz In Category AC-3							Rated Operating Current		Rated Non-conductive Voltage (A)
	220V 230V KW	380V 440V KW	415V KW	440V KW	500V KW	660V 690V KW	AC-3 up to 440V A	AC-1 $\theta \leq 40^\circ\text{C}$ A		
CECP2-0910 CECP2-0901	2.2	4	4	4	4	4	9	16	660	
CECP2-1210 CECP2-1201	3	5.5	5.5	5.5	7.5	7.5	12	25	660	
CECP2-1810 CECP2-1801	4	7.5	9	9	10	10	18	32	660	
CECP2-2510 CECP2-2501	5.5	11	11	11	15	15	25	40	660	
CECP2-3210 CECP2-3201	7.5	15	15	15	18.5	18.5	32	50	660	
CECP2-4011	11	18.5	22	22	22	30	40	60	660	
CECP2-5011	15	22	25	30	30	33	50	80	660	
CECP2-6511	18.5	30	37	37	37	37	65	80	660	
CECP2-8011	22	37	45	45	55	45	80	125	660	

CEC5-K AC Contactor

◆ Specifications

Type	CEC5-K0610 CEC5-K0601 CEC5-K06004 CEC5-K06008	CEC5-K0910 CEC5-K0901 CEC5-K09004 CEC5-K09008	CEC5-K1210 CEC5-K1201 CEC5-K12004 CEC5-K12008
Rated Working Voltage(V)	660(690)		
Rated Working Current(A)	380V	AC-3 6	AC-3 9
		AC-4 2.6	AC-4 3.5
Rated Thermal Current(A)	16		
Max Connecting. Current(A)	380V	60	90
	660V	72	108
Max Breaking. Current(A)	380V	48	72
	660V	60	90
AC3 Capacity of 3 Phase Squirrel-Cage Motor AC3(kW)	220V	1.5	2.2
	380V	2.2	4
	660V	3	4
AC-3 (61e le)	Electrical Life(times)	0.5 × 10 ⁶	
	Operation Frequency h ⁻¹	1200	
AC-4 (61e le)	Electrical Life(times)	10 × 10 ⁴	
	Operation Frequency h ⁻¹	300	
Mechanical Life × 10 ⁴	1000		
Wire(mm ²)	2.5		
Suitable Fuse	RT16-20		
Number of Contacts	3P+NO	3P+NO	3P+NO
	3P+NC	3P+NC	3P+NC
	4NO	4NO	4NO
	2NO+2NC	2NO+2NC	2NO+2NC



CEC5-E AC Contactor

◆ Specifications

Type	CEC5-E0610 CEC5-E0601 CEC5-E06008	CEC5-E0910 CEC5-E0901 CEC5-E09008
Rated Working Voltage(V)	660(690)	
Rated Working Current(A)	380V	AC-3 6
		AC-4 2.6
Rated Thermal Current(A)	16	
Max Connecting. Current(A)	380V	60
	660V	72
Max Breaking. Current(A)	380V	48
	660V	60
AC3 Capacity of 3 Phase Squirrel-Cage Motor AC3(kW)	220V	1.5
	380V	2.2
	660V	3
AC-3 (61e le)	Electrical Life(times)	0.5 × 10 ⁶
	Operation Frequency h ⁻¹	1200
AC-4 (61e le)	Electrical Life(times)	10 × 10 ⁴
	Operation Frequency h ⁻¹	300
Mechanical Life × 10 ⁴	1000	
Wire(mm ²)	2.5	
Suitable Fuse	NT00-20	
Number of Contacts	3P+NO	3P+NO
	3P+NC	3P+NC
	4NO	4NO
	2NO+2NC	2NO+2NC



CEC6 AC Contactor

◆ Application

CEC6 series AC Contactor is applicable to the circuits up to the rated voltage 100VAC 50Hz or 60Hz, rated current from 115A to 800A, for long distance breaking circuit and frequently starting or controlling the motor. It also can be used for the control of distribution circuits of rated current from 200A to 1600A.

◆ Specifications

Type	CEC6-115	CEC6-150	CEC6-185	CEC6-225	CEC6-265	CEC6-330	
Rated Operating Current(A)	AC-3	115	150	185	225	265	330
	AC-1	200	250	275	315	350	400
Standard Power Ratings of 3-phase Motors AC-3(KW)	220/230V	30	40	55	63	75	100
	380/400V	55	75	90	110	132	160
	415V	59	80	100	110	140	180
	400V	59	80	100	110	140	180
	500V	75	90	100	129	160	200
	660/690V	80	100	110	129	160	200
1000V	65	65	100	100	147	160	

Type	CEC6-400	CEC6-500	CEC6-630	CEC6-780	CEC6-800	
Rated Operating Current(A)	AC-3	400	500	630	780	800
	AC-1	500	700	1000	1500	1500
Standard Power Ratings of 3-phase Motors AC-3(KW)	220/230V	110	147	200	220	220
	380/400V	200	250	335	400	400
	415V	200	280	375	425	420
	400V	250	295	400	425	420
	500V	257	335	400	450	430
	660/690V	280	335	450	475	470
1000V	185	335	450	450	450	



CEC6-115



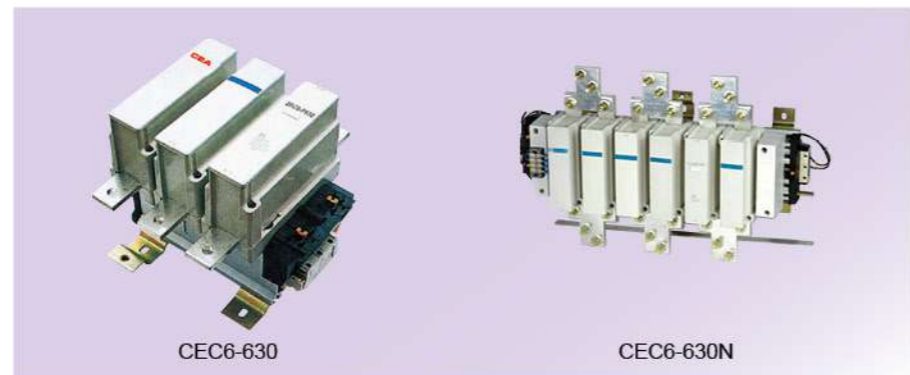
CEC6-225



CEC6-400



CEC6-500



CEC6-630

CEC6-630N

CEC2-2D Mechanical Interlocking Contactor

◆ Specifications

Type	Rated Current AC-3(A)	Controlled Power (KW)				
		220V	380V	415V	440V	660V
CEC2-2D09	9	2.2	4	4	4	5.5
CEC2-2D12	12	5.5	5.5	5.5	5.5	7.5
CEC2-2D18	18	7.5	7.5	9	9	10
CEC2-2D25	25	5.5	11	11	11	15
CEC2-2D32	32	7.5	15	15	15	18.5
CEC2-2D40	40	18.5	18.5	22	22	30
CEC2-2D50	50	15	22	25	30	33
CEC2-2D63	63	18.5	30	37	37	37
CEC2-2D80	80	22	37	45	45	45
CEC2-2D95	95	22	45	45	45	41
CEC2-2D115	115	30	55	59	59	80
CEC2-2D150	150	40	75	80	80	100
CEC2-2D170	170	55	90	100	100	100
CEC2-2D205	205	63	110	110	110	129
CEC2-2D245	245	75	132	132	132	160
CEC2-2D300	300	100	160	200	200	220
CEC2-2D410	410	110	260	250	250	280
CEC2-2D620	620	200	335	400	400	450



CEC2-2D25

CEC6-2F Mechanical Interlocking Contactor

◆ Specifications

Type	Number of Poles	Rated current AC-3(A)	Rated current In/A	Controlled Power (KW)	
				220V	380V
CEC6-2F115	3P	115	250	200	55
CEC6-2F1154	4P	115	250	200	55
CEC6-2F150	3P	150	355	250	75
CEC6-2F1504	4P	150	355	250	75
CEC6-2F185	3P	185	425	275	90
CEC6-2F1854	4P	185	425	275	90
CEC6-2F225	3P	225	500	315	110
CEC6-2F2254	4P	225	500	315	110
CEC6-2F265	3P	265	630	350	132
CEC6-2F2654	4P	265	630	350	132
CEC6-2F330	3P	330	800	400	160
CEC6-2F3304	4P	330	800	400	160
CEC6-2F400	3P	400	800	500	200
CEC6-2F4004	4P	400	800	500	200
CEC6-2F500	3P	500	1000	700	250
CEC6-2F5004	4P	500	1000	700	250
CEC6-2F630	3P	630	1250	1000	335
CEC6-2F6304	4P	630	1250	1000	335
CEC6-2F800	3P	800	1250	1000	400



CEC6-2F115

CEC7 AC Contactor

◆ Application

CEC7 series AC contactor is suitable for using in the circuits up to the rated voltage 660V AC 50Hz or 60 Hz, rated current up to 95A, for making, breaking, frequently starting & controlling devices etc, it becomes the delay contactor, mechanical interlocking contactor, star-delta starter. With the thermal overload relay, it is combined into the electromagnetic starter. The contactor is accord to IEC60947-4.

◆ Specifications

Type	AC1 Duty	AC3 Duty				Life Time (x10 ⁴)		Aux. Contact
		200-240V	380-400V	500-5500V	690V	Electrical	Mechanical	
CEC7-9	20A	2.5kW 11 A	5kW 9A	4kW 7A	4kW7A	250	2500	1NO1NC
CEC7-12	20A	3.5kW13A	5.5kW 12A	7.5kW 12A	7.5kW 9A	250	2500	
CEC7-18	25A	4.5kVV18A	7.5kW 18A	7.5kW 13A	7.5kVV 9A	250	2500	
CEC7-22	32A	5.5 kW 22A	11 kV1/22A	15k1N 22A	15kW 18A	250	2500	
CEC7-32	50A	7.5kVV32A	15kW32A	18.5kW28A	18.5kW21A	200	1500	2NO2 NC
CEC7-40	60A	11kW 40A	18.5kW40A	22kW 32A	22kW25A	200	1500	
CEC7-50	80A	15kW55A	22 kW 50A	30kW 43A	30kW 33A	200	1000	
CEC7-65	100A	18kW65A	30kW 65A	37k1N 60A	37kW 47A	200	1000	
CEC7-75	110A	22kW75A	37kW 75A	45kW 64A	45kW 47A	200	1000	
CEC7-85	135A	25kW85A	45kW 85A	45kW 75A	45kW 52A	200	1000	



CEC7-22



CEC7-32



CEC7-65



CEU2

CEU4

CEC8 AC Contactor

◆ Application

CEC8 series magnetic AC contactors are a new generation of contactors. The contactor is suitable for making and breaking remote circuits of frequent starting and controlling of AC motor with 50/60Hz rated voltage up to 660V, rated operating current 9,12, 16, 22,30,40, 50 and 105A at rated operating voltage 380V under the utilization category AC-3.

◆ Specifications

Type	CEC8-10	CEC8-11	CEC8-12	CEC8-18	CEC8-20	CEC8-21	CEC8-25	CEC8-35	CEC8-50	CEC8-65	CEC8-80	CEC8-95	
Rated Operating Current In 220V(A)	11	13	13	18	22	22	30	40	55	65	85	105	
Rated Operating Current In 380V(A)	9	12	12	16	22	22	30	40	50	62	85	105	
Rated Operating Current In 660V(A)	5	7	7	9	9	9	12	17	26	35	52	65	
Controlled Power Under AC-3(KW)	at220V	2.2	3	3	4	5.5	5.5	8.5	12	17	18	24	30
	at380V	4	5.5	5.5	7.5	11	11	15	18.5	22	30	45	55
	at660V	4	5.5	5.5	7.5	7.5	7.5	11	15	22	30	45	55
Coil Consumptional Rated Coil Voltage	3.5	3.5	3.5	3.5	5.3	5.3	5.3	5.3	2.8	2.8	2.8	2.8	
Rated Frequency of Operation Ops/hr	1800						1200						
Electrical Life Under AC-3	1 × 10 ⁶												

Type	CEX422	CEX431	CEX440	CEX413
NO	2	3	4	1
NC	2	1	0	3

Type	CEX404	CEX211	CEX220	CEX202
NO	0	1	2	0
NC	4	1	0	2



CEX2

CEX4



CEC8-10



CEC8-22/11



CEC8-40

CEC9 AC Contactor

◆ Application

CEC9 series AC contactor are suitable for AC 50Hz, rated voltage up to 660V, mainly used as putting through long distance, breaking circuit and frequently starting to control AC motor. It can also be used for counter-connection breaking of squirrel-cage motor in the case of reducing working current.

◆ Specifications

Type	Capacity of 3 Phase Squirrel-cage Motor AC-3								Rated Heating Current(A)
	Rated Power (KW)				Rated Operating Current(A)				
	220V-240V	380V-440V	550V	660V	220V-240V	380V-440V	550V	660V	
CEC9-10	2.5	4.0	4.0	4.0	11	9	7	5	20
CEC9-11	3.5	5.5	5.5	5.5	13	12	9	7	20
CEC9-12	3.5	5.5	5.5	5.5	13	12	9	7	20
CEC9-18	4	7.5	7.5	7.5	18	16	9	9	25
CEC9-20	5.5	11	11	7.5	22	22	17	9	32
CEC9-21	5.5	11	11	7.5	22	22	17	9	32
CEC9-25	8.8	14	14	14	30	30	12	12	40
CEC9-35	12	20	20	20	40	40	17	17	40
CEC9-50	17	22	22	22	55	50	26	26	80
CEC9-65	19	30	30	30	65	62	35	35	100
CEC9-80	24	45	45	45	85	85	52	52	135
CEC9-95	30	55	55	55	105	105	65	65	135



CEC9-12



CEC9-18



CEC9-25

CEC10 AC Contactor

◆ Application

CEC10 series AC contactor are suitable for AC 50Hz or 60Hz, rated voltage up to 660V, mainly used for putting through long distance, breaking circuit and frequently starting control AC motor. It can also be used for counter-cage motor in the case of reducing working current. It conforms with IEC601 58 & IEC60337.

◆ Specifications

Type	CEC10-03	CEC10-04	CEC10-05	CEC10-4-0	CEC10-4-1	CEC10-5-1	CEC10-1N
Max. Value of Motor	200-240V	2.5	3.5	3.5	4.5	5.5	5.5
	380-440V	4	5.5	5.5	7.5	11	11
	500-550V	4	5.5	5.5	7.5	11	11
	600-660V	4	5.5	5.5	7.5	7.5	7.5
Operating Current AC3(A)	200-240V	11	13	13	18	22	22
	380-440V	9	12	12	16	22	22
	500-550V	7	9	9	13	17	17
	600-660V	5	7	7	9	9	9
Rated Heating Current(A)	20	20	20	25	32	32	50
Aux-Contact Layout	Standard	INO	INO	INO	INO	INO	INO
	Other	INC	INC	2NC or 2NC	INC	2NC	2NC or 2NC
Life of kobadilrty (1 × 10 ⁴)	Electra.I	200	200	200	150	200	200
	Machanical	1000	1000	1000	1000	1000	1000

Type	CEC10-2N	CEC10-2SN	SEC10-3N	CEC10-4N	CEC10-5N	CEC10-6N
Max. Value of Motor	200-240V	11	15	18.5	22	30
	380-440V	18	22	30	40	55
	500-550V	18	25	37	37	55
	600-660V	15	22	30	37	55
Operating Current AC3(A)	200-240V	39	52	65	80	105
	380-440V	37	48	65	80	105
	500-550V	29	38	60	60	85
	600-660V	19	26	38	44	64
Rated Heating Current(A)	60	80	100	135	150	150
Aux-Contact Layout	Standard	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC	2NO 2NC
	Other	4NO 4NC	4NO 4NC	4NO 4NC	4NO 4NC	4NO 4NC
Life of kobadilrty (1 × 10 ⁴)	Electra.I	200	200	200	100	100
	Machanical	1000	1000	1000	1000	1000



CEC10-9



CEC10-22



CEC10-30

CEC12 AC Contactor

◆ Application

CEC12 AC contactor is mainly used in power system with AC50/60Hz, the rated operating current from 9A to 100A, the rated working voltage up to 660V under the application category of AC, for the long-distance range making and breaking the electric circuit. When it is combined with the suitable thermal overload relay and other necessary accessories, it becomes an electromagnetic starter to protect against the possible overload occurs in electric circuit during operation.

◆ Specifications

Type	Frame code	Rated Insulation Voltage(V)	Rated Insulation Voltage(V)	AC-3 Rated Operating Current Ie(A)			AC-3 Control the Max. Power kw of Generator		
				220V	380V	660V	220V	380V	660V
CEC12-9	16	220	26	9	9	7	2.2	4	5.5
CEC12-12			28	12	12	9	3	5.5	7.5
CEC12-16			30	17	17	10	4	7.5	9
CEC12-26	26	220	45	26	26	17	6.5	11	15
CEC12-30	40		65	32	32	21	9	15	18.5
CEC12-40			65	37	37	25	11	18.5	22
CEC12-50	75	100	50	50	35	15	22	30	
CEC12-63		125	65	65	43	18.5	30	37	
CEC12-75		125	75	75	46	22	37	40	
CEC12-95	110	145	96	96	65	25	45	55	
CEC12-110		160	110	110	82	30	55	75	
CEC12-145	145	275	145	145	125	45	75	110	
CEC12-185	185	275	185	185	145	85	90	132	
CEC12-210	210	350	210	210	175	59	110	160	
CEC12-260	260	400	260	260	208	80	140	200	
CEC12-300	300	500	305	305	260	90	160	250	



CES2 Magnetic Starter

◆ Application

CES2 magnetic starter is mainly applied to circuit of AC 50 or 60Hz, voltage up to 550V for distance making and breaking circuit and frequent start and control motor, it has the features of small volume, light weight, low power consumption, high efficiency, safe and reliable performance etc.

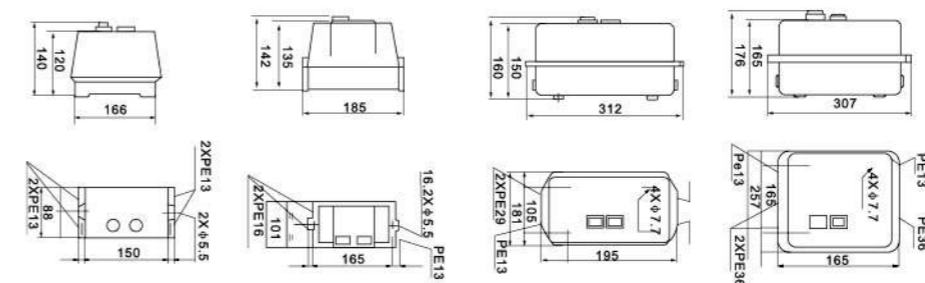
◆ Specifications

Type	LL (Long Life)	NL (Normal Life)	Max. Power AC3 Duty(KW)					Rated Current (A)	Type of Enclosure	Suitable Thermal Relay(A)
			220V 230V	380V 400V	415V	440V	500V			
CES2-094... CES2-093...	-	-	2.2	4	4	4	5.5	5.5	9	IP42-IP65 CER2-1312 CER2-1314
CES2-124... CES2-123...	CES2-094... CES2-093...	-	3	5.5	5.5	5.5	7.5	7.5	12	IP42 IP65 CER2-1316
CES2-188... CES2-185...	CES2-124... CES2-123...	-	4	7.5	9	9	10	10	18	IP42 IP65 CER2-1321
CES2-258... CES2-255...	CES2-188... CES2-185...	-	5.5	11	11	11	15	15	25	IP42 IP65 CER2-1322 CER2-2353
CES2-325...	CES2-255...	-	7.5	15	15	15	18.5	18.5	32	IP55 CER2-2355
CES2-405...	CES2-325...	-	11	18.5	22	22	22	30	40	IP55 CER2-3353 CER2-3355
CES2-505...	CES2-405...	-	15	22	25	30	30	30	50	IP55 CER2-3357 CER2-3359
CES2-655...	CES2-505...	-	18.5	30	37	37	37	37	65	IP55 CER2-3361
CES2-805...	CES2-655...	-	22	37	45	45	55	45	80	IP55 CER2-3363 CER2-3365
CES2-955...	CES2-805...	-	25	45	45	45	55	45	95	IP55 CER2-3365

Standard Control Circuit Voltages

Volts	24	42	48	110	220/230	230	240	380/400	400	415	440
50/60Hz	B7	D7	E7	F7	M7	P7	U7	Q7	V7	N7	R7

◆ Dimensions



CE1-D093 D123
CE1-D094

CE1-D185 D225
CE1-D188 D258

CE1-D325 D405
CE1-D505 D655

CE1-D805 D955



CES2N Magnetic Starter

◆ Application

CES2N magnetic starter is mainly applied to circuit of AC 50 or 60Hz, voltage up to 550V for far distance making and breaking circuit and frequently starting and controlling motor. It has the features of small volume, light weight, low power consumption, high efficiency, safe and reliable performance etc.

◆ Specifications

Type		Max. Power AC3 Duty(KW)						Rated Current (A)	Type of Enclosure	Suitable Thermal Relay(A)
LL (Long Life)	NL (Normal Life)	220V 230V	380V 400V	415V	440V	500V	660V 690V			
CES2N D094..	-----	2.2	4	4	4	5.5	5.5	9	IP42	CER2-1312
CES2N D093..	-----									CER2-1314
CES2N D124..	CES2N D094..	3	5.5	5.5	5.5	7.5	7.5	12	IP42	CER2-1316
CES2N D123..	CES2N D093..									
CES2N D188..	CES2N D124..	4	7.5	9	9	10	10	18	IP42	CER2-1321
CES2N D185..	CES2N D123..									
CES2N D258..	CES2N D188..	5.5	11	11	11	15	15	25	IP42	CER2-1322
CES2N D255..	CES2N D185..									
CES2N D325..	CES2N D255..	7.5	15	15	15	18.5	18.5	32	IP55	CER2-2355
CES2N D405	CES2N D325..	11	18.5	22	22	22	30	40	IP55	CER2-3353 CER2-3355
CES2N D505..	CES2N D405..	15	22	25	30	30	30	50	IP55	CER2-3357 CER2-3359
CES2N D655..	CES2N D505..	18.5	30	37	37	37	37	65	IP55	CER2-3361
CES2N D805..	CES2N D655..	22	37	45	45	55	45	80	IP55	CER2-3363 CER2-3365
CES2N D955..	CES2N D805..	25	45	45	45	55	45	95	IP55	CER2-3365

Enclosure	CES2N09 and CES2N12	Double insulated, protected to IP42 or to IP65 9
	CES2N18 and CES2N25	Double insulated, protected to IP42 or to IP55 7
	CES2N32 and CES2N95	Metal, IP55 to IP55 9
Control(2 Pushbuttons Mounted on Enclosure Cover)	CES2N09 and CES2N95	1 green start button "I" 2 red stop/reset button "0"
Connections	CES2N32 and CES2N95	Pre-wired power and control circuit connections

◆ Standard Control Circuit Voltages

Volts	24	42	48	110	220/230	230	240	380/400	400	415	440
50/60Hz	B7	D7	E7	F7	M7	P7	U7	Q7	V7	N7	R7



CES8 Magnetic Starter

◆ Application

CES8 series magnetic starters are used in a circuit of voltage up to 660V, AC 50-60Hz to start, stop and convert motors, and protect motors from overload and phase failure.

◆ Specifications

Type	Rated Current AC3 (A)		Rated Power (KW)				Aux. Contacts		Setting Current (A)	
	220V	380V	220V	380V	550V	660V				
CES8-10PM(KP/TP)	11	9	2.5	4	4	4	1	-	0.24A 0.35A 0.5A 0.7A 0.9A 1.3A 1.7A 2.1A 2.5A 3.6A 5A 6.6A 9A	
CES8-11PM(KP/TP)	13	12	3.5	5.5	5.5	5.5	1	-		
CES8-18PM(KP/TP)	18	16	4.5	7.5	7.5	7.5	1	-		
CES8-20PM(KP/TP)	22	22	5.5	11	11	7.5	1	-		
CES8-21PM(KP)	22	22	5.5	11	11	7.5	1	2	0.24A 0.35A 0.5A 0.7A 0.9A 1.3A 1.7A 2.1A 2.5A	
CES8-25PM(KP)	30	30	7.5	15	15	11	1	2		
CES8-35PM(KP)	40	40	11	18.5	18.5	15	1	2	22A 29A	35A
CES8-50PM(KP)	55	50	15	22	22	22	1	2	15A 22A 29A 35A 42A 54A	
CES8-65PM(KP)	65	62	18.5	30	30	30	1	2		
CES8-80PM(KP)	85	85	22	45	45	45	1	2	82A 95A	37A
CES8-95PM(KP)	105	105	30	55	55	55	1	2		82A 95A



CES8-11PM



CES8-21PM



CES8-35PM

CESD2 Star-delta Reduced Voltage Starter



CESD2-183



CESD2-323

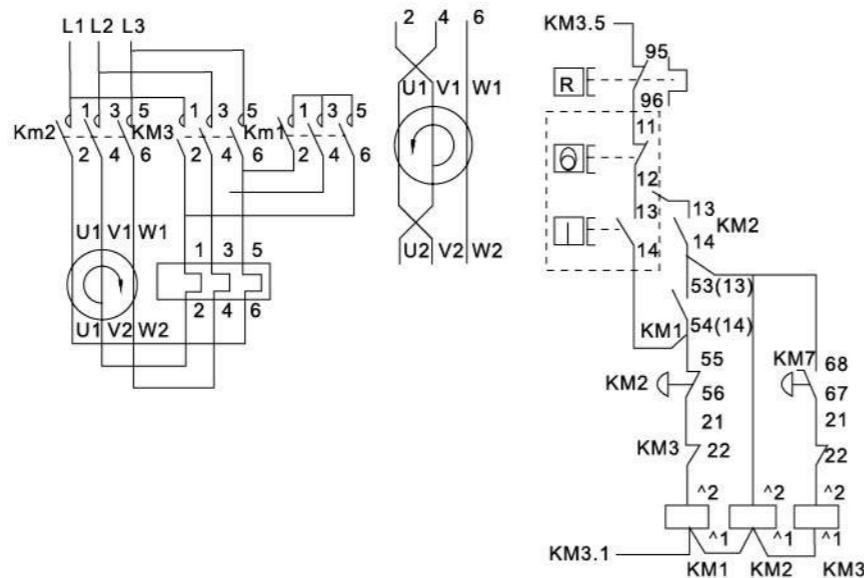
◆ Application

CESD2 series star-delta reduced voltage starter is suitable for starting motor in the circuit of AC 50/60Hz, voltage up to 660V and current up to 95A. It is provided with a timer for automatic changeover of star-delta to reduce the voltage and current of motor starting.

◆ Specifications

Type	Rated Operating Current(A) AC3	3-Phase Motor Capacity(KW) AC3 Loaded			
		AC3 Loaded			
		220V	380V	415V	440V
CESD2-09-3	9	4	7.5	7.5	7.5
CESD2-12-3	12	5.5	11	11	11
CESD2-183	17	11	18.5	22	22
CESD2-253	25	11	18.5	22	22
CESD2-323	32	15	25	25	25
CESD2-403	40	18.5	37	37	37
CESD2-503	50	25	55	55	55
CESD2-803	80	37	75	75	75
CESD2-953	95	45	80	80	80

◆ Wiring Diagram



CEC13 Modular Contactor

◆ Application

CEC13 modular contactor is applicable to alternative circuit with rated voltage up to 400V, rated current up to 24A and rated frequency 50/60Hz. The product is used for remote switching and controlling of power circuit.

◆ Specifications

Model	CEC13-40	CEC13-63
Poles	2P,4P	4P
Current	2P:20,24,32,40(A) 4P:20,24,32A	4P:20,24,40,63A
Contact	2NO,4NO	4NO
Coil	AC/DC 220V/230V	



CEC14 Modular Contactor

◆ Application

CEC14 modular contactor is mainly designed for AC 50Hz or 60Hz circuits with 230V rated operating voltage. In AC-7a usage, rated operating voltage up to 230V, rated operating current up to 25A, it functions as long distance breaking and circuit controlling. This product is mainly applied to household appliances of low inductance loading and household motor loading control used for the similar purpose.

◆ Specifications

Model	CEC14-20(25)	CEC13-63	CEC14-63	CEC14-63
Poles	1P 2P	3P 4P	1P 2P	3P 4P
Current	10,16,20,(25)A	10,16,20,25A	25,32,40,63A	25,32,40,63A
Contact	1 NO,2NO	3NO,4NO,4NC 2NO+2NC	1 NO,2NO,2NC	3NO,4NO,4NC 2NO+2 NC
Coil	AC 50Hz/60Hz 220V/230V 127V 110V 36V 24V			



CJX9 Star-delta Reduced Voltage Starter

◆ Application

This series contactor is mainly applicable to a line of AC 50Hz or 60Hz, rated working voltage up to 600V and rated working current up to 60A, used to close and to switch off the line.

◆ Specifications

P/N	AMPS	VOLTS
CJX9-1P-30-24V	30	24
CJX9-1P-30-120V	30	120
CJX9-1P-30-240V	30	240
CJX9-1P-40-24V	40	24
CJX9-1P-40-120V	40	120
CJX9-1P-40-240V	40	240
CJX9-2P-30-24V	30	24
CJX9-2P-30-120V	30	120
CJX9-2P-30-240V	30	240
CJX9-2P-40-24V	40	24
CJX9-2P-40-120V	40	120
CJX9-2P-40-240V	40	240
CJX9-3P-50-24V	50	24
CJX9-3P-50-120V	50	120
CJX9-3P-50-240V	50	240
CJX9-3P-60-24V	60	24
CJX9-3P-60-120V	60	120
CJX9-3P-60-240V	60	240

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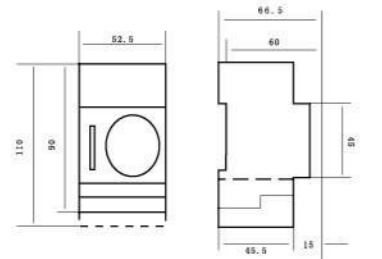
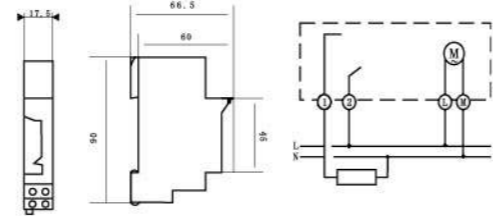


Relay



- 01 Timer
- 11 Relay
- 15 Solid State Relay
- 16 Relay Socket
- 17 Phase Failure and Phase Sequence Relay
- 19 Voltage Monitoring Device
- 20 Liquid Level Controller
- 20 Hour Meter
- 21 Electromagnetic Counter
- 22 Diodes
- 24 Diode Modules
- 25 Bridge Rectifiers
- 26 CER1 Thermal Relay
- 27 CER2 Thermal Relay
- 28 CER Thermal Overload Relay
- 29 CER7 Thermal Overload Relay
- 30 CER3 Thermal Relay
- 31 CER8 Thermal Relay
- 32 CE5 Thermal Relay





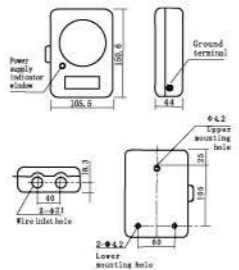
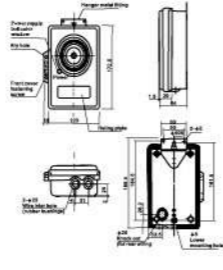
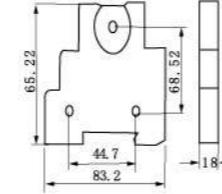
Timer

Classification		Timer			
Type		CET181h	CET161h	CET180a	CET160a
Appearance					
Contact Capacity		AC220V 16A	AC220V 16A	AC220V 16A	AC220V 16A
Full Timing Range		24h	24h	24h	24h
Contact Resistance		≤ 50mΩ	≤ 50mΩ	≤ 50mΩ	≤ 50mΩ
Insulation Resistance		≥ 100MΩ	≥ 100MΩ	≥ 100MΩ	≥ 100MΩ
Coil Voltage		110,230V AC	110,230V AC	110,230V AC	110,230V AC
Life	Electrical	10 ⁵ times	10 ⁵ times	10 ⁵ times	10 ⁵ times
	Mechanical	10 ⁷ times	10 ⁷ times	10 ⁷ times	10 ⁷ times
Operating Temperature		-40°C ~+55°C	-40°C ~+55°C	-10°C ~+55°C	-10°C ~+55°C
Dimensions(mm)					
Storage Battery (working Reserve)		Time 150h	Without Battery	Time 70h	Without Battery
Minimum Setting Unit		30Minutes	30Minutes	15Minutes	15Minutes
Set Up Times		30m/per times 48times	30m/per times 48times	15m/per times 96times	15m/per times 96times





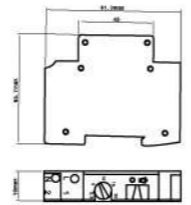
Timer

Timer			
CET711	CET710	TB-35	TB-35B
			
AC230V 16A	AC230V 16A	AC220V 10A	AC220V 10A
24h	24h	24h	24h
≤ 50mΩ	≤ 50mΩ	≤ 50mΩ	≤ 50mΩ
≥ 100MΩ	≥ 100MΩ	≥ 100MΩ	≥ 100MΩ
230V AC	230V AC	100~240V AC	100~240V AC
10 ⁵ times	10 ⁵ times	10 ⁵ times	10 ⁵ times
10 ⁷ times	10 ⁷ times	10 ⁷ times	10 ⁷ times
-40°C ~+55°C	-40°C ~+55°C	-40°C ~+55°C	-40°C ~+55°C
			
Time 70h	Without Battery	Without Battery	Time 150h
10Minutes	10Minutes	15Minutes	15Minutes
10m/per times 144times	10m/per times 144times	15m/per times 96times	15m/per times 96times

Timer

Classification		Timer			
Type		TB-38	TB-38B	TB-438	CET8
Appearance					
Contact Capacity		AC220V 10A	AC220V 10A	AC220V 10A	AC220V 16A
Full Timing Range		24h	24h	24h	7 Sec.
Contact Resistance		≤ 50mΩ	≤ 50mΩ	≤ 50mΩ	≤ 50mΩ
Insulation Resistance		≥ 100MΩ	≥ 100MΩ	≥ 100MΩ	≥ 100MΩ
Coil Voltage		100,240V AC	100,240V AC	100,240V AC	100,240V AC
Life	Electrical	10 ⁵ times	10 ⁵ times	10 ⁵ times	10 ⁵ times
	Mechanical	10 ⁷ times	10 ⁷ times	10 ⁷ times	10 ⁷ times
Operating Temperature		-40℃ ~+55℃	-40℃ ~+55℃	-40℃ ~+55℃	-40℃ ~+55℃
Dimensions(mm)					
Storage Battery (working Reserve)		Without Battery	Time 150h	Time 150h	---
Minimum Setting Unit		15Minutes	15Minutes	15Minutes	0.5Minutes
Set Up Times		15m/per times 96times	15m/per times 96times	15m/per times 96times	1M, 1.5M, 2M, 2.5M 3M, 3.5M, 4M, 4.5M, 5M, 5.5M, 6M, 6.5M, 7M




Timer

Timer	Classification	Weekly Programmable		
		CET8A	CET8B	CET15A
	Type			
AC220V 16A	Appearance			
20 Sec.	Dimensions(mm)	50 × 100 × 66	48 × 48 × 95	81 × 36 × 66
≤ 50mΩ				
≥ 100MΩ	Full Timing Range	Per week or per day cycle		
110,230V AC				
10 ⁵ times	Rated Voltage	AC 220V 50/60HZ85%-110%		
10 ⁷ times				
-40℃ ~+55℃	Contact Capacity	12AAC250V AC		
	Contact Form	1NO,1NC/1NO	1NO	1Z
	Accuracy	≤ 2S/DAY(℃)		≤ 2S/DAY(℃)
	Expectancy Display	LCD		LCD
	Mounting Holes	---	45 × 45mm	---
	Mounting Form	Front-panel, din Rail	Front-panel, din Rail	Front-panel, din Rail
	---	Life	Electrical	≥ 10 ⁵ times
---	Mechanical		≥ 10 ⁵ times	≥ 10 ⁵ times
0.5Minutes	Operating Mode	-20℃ ~+50℃		-20℃ ~+50℃
0.5M, 5M, 10M, 15M, 20M	Programmable	9time/week or day		9time/week or day
---	Workmode	15days		15days

Timer

Classification		Timer		Multi Range Timer					Timer		
Type		CETH3-□		CETH3-□		CE TH3-N □			CE T2P		
Appearance											
Dimensions(mm)		50H × 40W × 57.5D		50H × 40W × 57.5D		50H × 40W × 57.5D			50H × 40W × 57.5D		
Mounting & Socket	Surface(-n)	PF083A(E)		PF083A(E)		PF083A(E)			PF083A(E)		
	Flush(-y)	US-08 P3G-08		US-08 P3G-8		US-08 P3G-08			US-08 P3G-08		
Full Timing Range		SEC:1,3,6,10,12,30,60 MIN:3,6,10,12,30,60 HR:3,6,10,12,30		A:1S,10S,1M,10M S:3S,30S,3M,30M C:6S,60S,6M,60M D:1M,10M,1H,10H E:3M,30M,3H,30H					SEC:1,3,6,10,12,30,60 MIN:3,6,10,12,30,60 HR:3,6,10,12,30		
Rated Voltage		DC(V):12,24 AC(V):12,24,110,220,240,380,50/60Hz								AC (V):12,24,110,220 50/60Hz DC(V):12-24(50/60Hz)	
Indicator Operating		ON-UP Operating					Time Operating Flicker			ON-UP Operating	
O/P Contact	Model	CETH3-1	CETH3-2	CETH3-3	CETH1□	CETH2□	CETH3□	Mode A/B		CET2P-E	
	Time Limit 1C	5A		5A	5A		5A		5A		
	Time Limit 2C		5A			5A		5A		5A	
	Instantaneous 1C			5A			5A		5A		
Life	Mechanical	5 × 10 ⁶ times			5 × 10 ⁶ times			5 × 10 ⁷ times			
	Electrical	10 ⁵ times			10 ⁵ times			10 ⁵ times			
Accuracy	Repeat Error	± 1%max			± 1%max			± 2%max			
	Setting Error	± 10%max			± 10%max			± 5%max			
	Voltage Error	± 1%max			± 1%max			± 5%max			
	Temp. Error	± 2%max			± 2%max			± 2%max			
Reset Time		0.1 sec max			0.1 sec max			0.5 sec max			
Consumed Power		2VA			2VA			2VA			
Ambient Temperature		-10℃ ~+55℃			-10℃ ~+55℃			-10℃ ~+55℃			
Ambient Humidity		48-85%RH			48-85%RH			35-85%RH			
Weight		160g			160g			100g			
Connection Diagrams & Timing Chart		33D	33E	33F	33I	33E	33F	33H	33J	34I	


Timer

		Multi Range Timer					
		CET3P	CET3BA-□		CET3R-□	CET3A-A	CET3A-8
Appearance							
Dimensions(mm)		50H × 40W × 57.5D	48H × 48W × 93.5D		48H × 48W × 81.6D	48H × 48W × 81.6D	48H × 48W × 81.6D
Mounting & Socket	Surface(-n)	PF083A(E)	PF-083A(E)	P2CF08 PS-08	PS-08	PF113A(E)	PS-08 P2C F08
	Flush(-y)	US-08 P3G-08	US-11	US-08 P3G-08	US-08 P3G-08	US-11	US-08 P3G-08
Full Timing Range		A:0.05-0.5s/5s/30s/3min B:0.1-1s/10s/60s/6min C:0.5s/5s/50s/5min/30min D:1-10s/100s/10min/60min E:5-1min/10/60min/6h F:0.25-2min/20min/2h/12h G:0.5-4min/40min/4h/24h	0.5SEC~100HRS		0.5SEC~100HRS	0.1SEC~9990HRS	0.1SEC~9990HRS
Rated Voltage		24 to 240V AC/DC AC(V)110V,220V DC(V)12V,24V	24 to 240V AC/DC DC(V):12,24,48 AC(V):24,50,110,220		1 00 to 240V AC/100to 125 VDC 24 to 48V AC/12 to 48 VDC AC(V)110V , 220V DC(V)12V,24V	AC(V):110V-240(50/60Hz) 12VDC,24VDC/AC (50/60Hz)24 to 240V DC/AC	
Indicator Operating		ON-UP Operating	Time Operating Flicker		Time Operating Flicker	LCD	LCD
O/P Contact	Model	CET3P	CET3BA	CET3BA-8	CET3BA-8H	CET3R-A	CET3R-A8
	Time Limit 1C	5A		5A		5A	5A
	Time Limit 2C		5A		5A		5A
	Instantaneous 1C			5A		5A(AC250)	5A(AC250)
Life	Mechanical	5 × 10 ⁷ times	5 × 10 ⁷ times		5 × 10 ⁷ times	10 ⁷ times	10 ⁷ times
	Electrical	10 ⁵ times	10 ⁵ times		10 ⁵ times	10 ⁵ times	10 ⁵ times
Accuracy	Repeat Error	± 2%max	± 2%max		± 2%max	± 2%max	± 2%max
	Setting Error	± 5%max	± 5%max		± 5%max	± 5%max	± 5%max
	Voltage Error	± 5%max	± 5%max		± 5%max	± 5%max	± 5%max
	Temp. Error	± 2%max	± 2%max		± 2%max	± 2%max	± 2%max
Reset Time		0.5 sec max	0.5 sec max		0.5 sec max	0.5 sec max	0.5 sec max
Consumed Power		2VA	100-240V AC:10VA 12VDC,24-240VDC:1.5W				
Ambient Temperature		-10℃ ~+55℃	-10℃ ~+55℃		-10℃ ~+55℃	-10℃ ~+55℃	-10℃ ~+55℃
Ambient Humidity		35-85%RH	35-85%RH		35-85%RH	35-85%RH	35-85%RH
Weight		100g	100g		100g	100g	100g
Connection Diagrams & Timing Chart		33I	34I	34F	34G	34H	ModeA34E Mode E34J

Timer

Classification		Timer			Timer		
Type		CET-N	CET-Y	CET2-N	CET2-Y		
							
Dimensions		61H × 49W × 70D	88H × 58W × 68 D	61H × 49W × 70D	88H × 58W × 68 D		
Mounting & Socket	Surface(-n)	PF083A(E)PS-08		PF083A(E)PS-08			
	Flush(-y)		US-08 P3G-08		US-08 P3G-08		
Full Timing Range		SEC:1,3,6,12,30,60 MIN:3,6,12,30,60 HR:3,6,12,24		SEC:1,3,6,12,30,60 MIN:3,6,12,30,60 HR:3,6,12,24			
Rated Voltage		DC(V):12,24 AC(V):12,24,110,220,240,50/60Hz		DC(V):12,24 AC(V):12,24,110,220,240,50/60Hz			
Indicator Operating		Time Operating			ON-UP Two Indicator Lamp		
O/P Contact	Model	CET-N1/ CET-Y1	CET-N2/ CET-Y2	CET-N/ CET-Y	CET2-N1/ CET2-Y1	CET2-N2/ CET2-Y2	CET2-N/ CET2-Y
	Time Limit 1C	5A		5A	5A		
	Time Limit 2C		5A			5A	
	Instantaneous 1C			5A			5A
Life	Mechanical	5 × 10 ⁶ times			5 × 10 ⁶ times		
	Electrical	10 ⁶ times			10 ⁶ times		
Accuracy	Repeat Error	± 1%max			± 1%max		
	Setting Error	± 10%max			± 10%max		
	Voltage Error	± 1%max			± 1%max		
	Temp, Error	± 2%max			± 2%max		
Reset Time		0.1 sec max			0.1 sec max		
Consumed Power		2VA			3VA		
Ambient Temperature		-10°C ~+55°C			-10°C ~+55°C		
Ambient Humidity		48-85%RH			48-85%RH		
Weight		220g			220g		
Connection Diagrams & Timing Chart		33A	33B	33C	33D	33E	33F





Timer

Multi Range Timer	Twin Timer	Twin Timer	Timer
CETV-N-Y-□	CETV-N	CETV-Y	CET3Y-□
			
88H × 58W × 68D	61H × 49W × 70D	88H × 58W × 68D	28H × 21W × 52.6D
PF083A(E)PS-08	PF083A PS-08		PYF08A(E) PYF14A(E)
US-08 P3G-08		US-08 P3G-08	With Y-20 adapter
A:1S,10S,1M,10M B:3S,30S,3M,30M C:6S,60S,6M,60M D:1M,10M,1H,10H E:3M,30M,3H,30H	6S × 6S,6S × 60S,60S × 6S, 60S × 6S,6M × 6M 6M × 60M,60M × 6M,60M × 60M, Longest time 12Hours upon clients' request		SEC:1,3,5,10,30,60,120 MIN:35103060 H R:3
DC(V):12,24 AC(V):12,24,110,220,240,50/60Hz	DC(V):12,24 AC(V):12,24,110,220,240, 50/60Hz	DC(V):12,24 AC(V):12,24,110,220,240, 50/60Hz	DC(V):12,24 AC(V):12,24,110,220,240, 50/60Hz
ON-UP Two Indicator Lamp	ON-UP Two Indicator Lamp	ON-UP Two Indicator Lamp	Power,up Operating
CETV-N-□ / CETV-Y-□	CETV-N	CETV-Y	CET3Y-2 CET3Y-4
5A	5A	5A	
5A			5A 3A(4C)
5A			
5 × 10 ⁶ times	5 × 10 ⁶ times	5 × 10 ⁶ times	5 × 10 ⁶ times
10 ⁶ times	10 ⁶ times	10 ⁶ times	10 ⁶ times
± 1%max	± 1%max	± 1%max	± 3%max
± 10%max	± 10%max	± 10%max	--
± 1%max	± 1%max	± 1%max	± 2%max
± 2%max	± 2%max	± 2%max	± 5%max
0.1 sec max	0.2sec max	0.2sec max	0.2sec max
3VA	2VA	2VA	3VA
-10°C ~+55°C	-10°C ~+55°C		-10°C ~+55°C
48-85%RH	48-85%RH	48-85%RH	48-85%RH
220g	16g	210g	45g
33F	33G	33G	34C 34D




Timer

Classification	Timer			
Model	CET6A	CET6B	CET48	CET48A
Appearance				
Dimensions(mm)	48 × 48 × 96	48 × 48 × 96	48 × 48 × 91	48 × 48 × 96
Full Timing Range	0.01 s-99h99m	0.01S-99H99M	0.01S-99H99M	
Rated Voltage	AC220V 85° /0-110%	AC 220V 85%-110%	AC/DC100~200V 50HZ	
Contact Capacity	3AAC250V(Resistive)	3AAC250V(Resistive)	3AAC250V(Resistive)	
Contact Form	1Z	1Z	2Z	2Z
Accuracy	≤ 50.5%+0.05S(25℃)			≤ 0.5%+0.1S(25℃)
Expectancy Display	LCD	LCD	LCD	LCD
Mounting Holes	45 × 45mm	45 × 45mm	45 × 45mm	45 × 45mm
Mounting Form	Panel	Panel	Panel,DIN Rail	Panel,DIN Rail
Life	Electrical	≥ 10 ⁶ times	≥ 10 ⁶ times	≥ 10 ⁶ times
	Mechanical	≥ 10 ⁷ times	≥ 10 ⁷ times	≥ 10 ⁷ times
Operating Mode	-10℃ ~+40℃	-10℃ ~+40℃	-10℃ ~+40℃	-10℃ ~+40℃

Relay

Classification	Floatless Relay	Floatless Relay	Floatless Relay	Floatless Relay
Type	CEFR-GR	CEFS-GR	CEFR-G	CEFR-G1
Appearance				
Dimensions(mm)	50H × 40W × 58D	50H × 40W × 58D	79.5H × 135W × 127D	79.5H × 135W × 127D
Socket Type	PF085A PF083A(E)	PF085A PF083A(E)	--	--
General	--	--	61F-G	61F-G
Sensing Mode	High Sensing	--	--	--
	Long Distance	--	--	--
	Low Density	--	--	--
	Two Lines	CEFR-GR	--	--
Rated Voltage	AC:110V,220V,240V,50/60HZ	AC:110V,220V,240V,50/60HZ	AC:110V,220V,240V,50/60HZ	
Indicator Operating	Two LED' s use for two status	Two LED' s use for two status	Two LED' s use for two status	
Operate Voltage	85-110% of rated voltage	85-110% of rated voltage	85-110% of rated voltage	
Second Voltage	8V AC(except high sensing 24V AC)	8V AC(except high sensing 24V AC)	8V AC(except high sensing 24V AC)	
Operate Resistance	4KΩ min.(general)	4KΩ min.(general)	4KΩ min.(general)	
Release Resistance	15kΩ min.(general)	15kΩ min.(general)	15kΩ min.(general)	
Response Time	Operate:80msec max,Release:160msec max.	Operate:80msec max,Release:160msec max.	Operate:80msec max,Release:160msec max.	
Contact Rating	5A,250V AC(RESISTIVE LOAD)	5A,250V AC(RESISTIVE LOAD)	5A,250V AC(RESISTIVE LOAD)	
Length of Cable	1K max.(general)	1K max.(general)	1K max.(general)	
Insulation Resistance	100M Ω(DC 500V)min	100M Ω(DC 500V)min	100M Ω(DC 500V)min	
Life	Mechanical	5 × 10 ⁶ times min	5 × 10 ⁶ times min	5 × 10 ⁶ times min
	Electrical	10 ⁵ times min	10 ⁵ times min	10 ⁵ times min
Dielectric Strength	1500V AC,50/60HZ,for 1 minute	1500V AC,50/60HZ,for 1 minute	1500V AC,50/60HZ,for 1 minute	
Consumed Power	3.2VA	3.2VA	3.2VA	
Ambient Temperature	-10℃ ~+55℃	-10℃ ~+55℃	-10℃ ~+55℃	
Ambient Humidity	45-85%RH	45-85%RH	45-85%RH	
Weight	150g	150g	750g	380g
Connection Diagrams	35B	35C	35E	35D






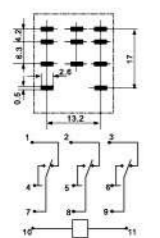
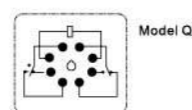
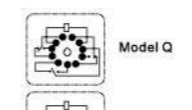
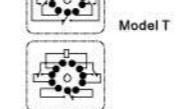
Relay

Floatless Relay	Classification	Rev.Preventing Relay		Mini Electromagnetic Relay Series	
CEFR-GP-N	Model	CEPR-3	CEVR-1	Type	
	Appearance			Appearance	
50H × 40W × 70D				Dimensions(mm)	
PF113A				Contact Form	
--				Contact Capacity	
--	Dimensions	50H × 40W × 58D	61H × 49W × 70D	Coil Voltage	DC
--					AC
--	Mousing & Socket	Surface(-n)	PS-08 PF083A(E)	Coil Power	
CEFR-GR-N		Flush(-y)	P3G-08 US-08	Pick-up	
AC:110V,220V,240V,50/60HZ	Functions	Protecting Three-phase Induction Motor Recerse Relay 220V Source With Surge Absorber And High Voltage Protecting		Drop-out	
Two LED' s use for two status				Contact Resistance	
85-110% of rated voltage				Indicator Resistance	
8V AC(except high sensing 24V AC)	Rated Voltage	AC(V)220V,240V,380,415,440,50/60HZ		Life	Electrical
4KΩ min.(general)	Indicator Operating	--	Normal Operating Normal		Mechanical
15kA min.(general)		Dielectric Strength		Between Open Contacts	
Operate:80msec max,Release:160msec max.	Contact Output	Model	CERP-3	CEVR-1	Between Coil & Contacts
5A,250V AC(RESISTIVE LOAD)		Time Limt	10A	10A	
1K mmax.(general)	Life	Mechanical	5 × 10 ⁶ times	5 × 10 ⁶ times	Operating Temperature
100M Ω(DC 500V)min		Electrical	10 ⁵ times	10 ⁵ times	Weight
5 × 10 ⁶ times min	Setting Error	--	--	Mounting Holes & Bottom View	
10 ⁶ times min	Reset Time	--	--		
1500V AC,50/60HZ,for 1 minute	Consumed Powe	2VA	2VA		
3.2VA	Ambient Temperature	-10℃ ~+55℃	-10℃ ~+55℃		
-10℃ ~+55℃	Ambient Humidity	45-85%RH	45-85%RH		
45-85%RH	Weight	90	90		
150g	Connection Diagrams& Timing Chart			Like Products	
--			35A	35F	Pitted Socket
				Remarks	





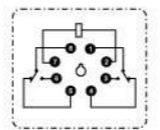
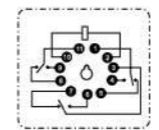
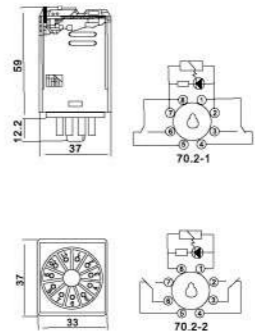
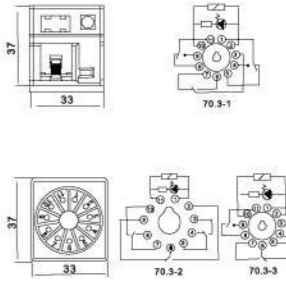
Relay

Mini Electromagnetic Relay Series				
CY1,S,-N,-F,-O	CY2,S,-N,-F,-O	CY3,S,-N,-F,-O	CY4,-S,-N,-F,-O	CK2,S,-N,-F,-O
				
27.5 × 21.5 × 35	37.5 × 21.5 × 35	27.5 × 31 × 35	27.5 × 41 × 35	27.5 × 41 × 35
1z	2Z	3Z	4Z	2Z
10A 250V AC	10A 250V AC		10A 250V AC	5A 250V AC
6~220V	6~220V		6~220V	
6~380V	6~380V		6~380V	
DC: ≤ 0.9W AC: ≤ 1.2VA	DC: ≤ 0.9W AC: ≤ 1.2VA		DC: ≤ 0.9W AC: ≤ 1.2VA	
DC: ≤ 75% AC: ≤ 80%	DC: ≤ 75% AC: ≤ 80%		DC: ≤ 75% AC: ≤ 80%	
DC: ≥ 10% AC: ≥ 30%	DC: ≥ 10% AC: ≥ 30%		DC: ≥ 10% AC: ≥ 30%	
≤ 50MΩ	≤ 50MΩ		≤ 50MΩ	
≥ 100MΩ	≥ 100MΩ		≥ 100MΩ	
10 ⁵ times	10 ⁵ times		10 ⁵ times	
10 ⁷ times	10 ⁷ times		10 ⁷ times	
1000V RMS	1000V RMS		1000V RMS	
1500V RMS	1500V RMS		1500V RMS	
P.C.B & Socket 	P.C.B & Socket 		P.C.B & Socket 	
-40℃ ~+55℃	-40℃ ~+55℃		-40℃ ~+55℃	
About35g	About35g	About53g	AAbout70g	About35g
				
FSD HH61P	FSD HH62P	FSD HH63P	FSD HH64P	P & B L10KH2 PSD HH52P 4104
PTF08A PTF08A-E PT08	PTF08A PTF08A-E PT08	PT11 PTF11A	PTF14A PTF14A-E PT14	PYF08A PYF08A-E PY08
With lamp:-N,FLANGE:-F,With button:-S,PCB:-0				

Relay

Mini Electromagnetic Relay Series			
CK3,S,-N,-F,-O	CK4,-S,-N,-F,-O	CK2P-1,S,-N	CK3P-1,-S,-N
			
27.5 × 21.5 × 35	27.5 × 21.5 × 35	34.5 × 34.5 × 52	34.5 × 34.5 × 52
3Z	4Z	3Z	3Z
5A 250V AC	5A 250V AC	10A 250V DC28V	
6~220V		6~220V	
6~380V		6~380V	
DC: ≤ 0.9W AC: ≤ 1.2VA		DC: ≤ 0.9W AC: ≤ 1.2VA	
DC: ≤ 75% AC: ≤ 80%		DC: ≤ 75% AC: ≤ 80%	
DC: ≥ 10% AC: ≥ 30%		DC: ≥ 10% AC: ≥ 30%	
≤ 50MΩ		≤ 50MΩ	
≥ 100MΩ		≥ 100MΩ	
10 ⁵ times		10 ⁵ times	
10 ⁷ times		10 ⁷ times	
1000V RMS		1000V RMS	
1500V RMS		1500V RMS	
P.C.B & Socket 		Socket 	
-40℃ ~+55℃		-40℃ ~+55℃	
About35g	About35g	About85g	About85g
		 	 
P & B L10KH2 DSD HH52P 4104	P & B L10KH2 DSD HH52P 4104	H,K FRM5	H,K FRM5
PYF11A PYF11A-E PY011	PYF14A PYF14A-E PY014	PF083A PF083A-E US-08	PF113A PF113A-E US-11
With lamp:-N,FLANGE:-F,With button:-S,PCB:-0			

Relay

Mini Electromagnetic Relay Series				
Type	CE62	CE63	CE72	CE73
Appearance				
Terminal layout	2Z	3Z	2Z	3Z
Contact capacity	AC	10A 220V	10A 220V	10A 250V
	DC	10A 28V	10A 28V	10A 30V
Contact resistance(m Ω)	≤ 50mΩ			
Insulation resistance(m Ω)	≤ 500mΩ			
Dielectric strength	BOC	2000V AC	2000V AC	1500V AC
	BCC	2000V AC	2000V AC	1500V AC
Coil nominal voltage	AC	6 to 240V	6 to 240V	6 to 380V
	DC	6 to 125V	6 to 125V	6 to 220V
Coil nominal power	AC	≤ 3.5VA	≤ 3.5VA	2.0VA to 2.8VA
	DC	≤ 2W	≤ 2W	≤ 1.5W
Electrical life(OPS)	20 ⁵	20 ⁵	10 ⁵	10 ⁵
Mechanical life(OPS)	20 ⁷ /50 ⁷	20 ⁷ /50 ⁷	10 ⁷	10 ⁷
Operating temperature(℃)	-40~+70	-40~+70	-40~+60	-40~+60
Weight(g)	≤ 125	≤ 125	≤ 85	≤ 85
Mounting methods	Outlet			
Dimensions				

Solid State Relay

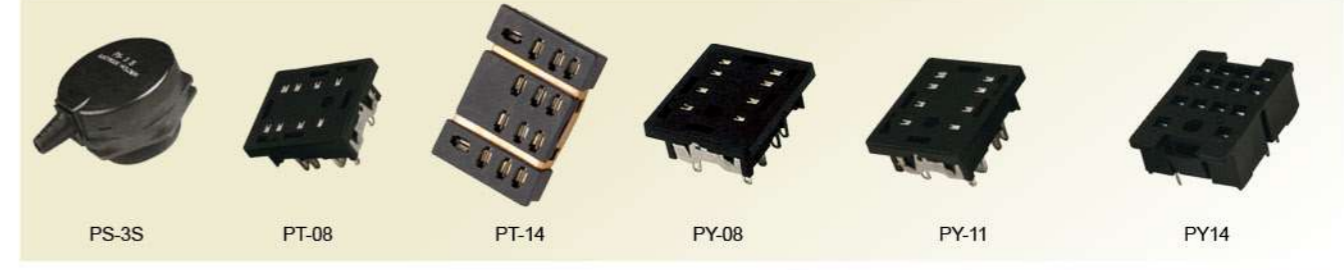
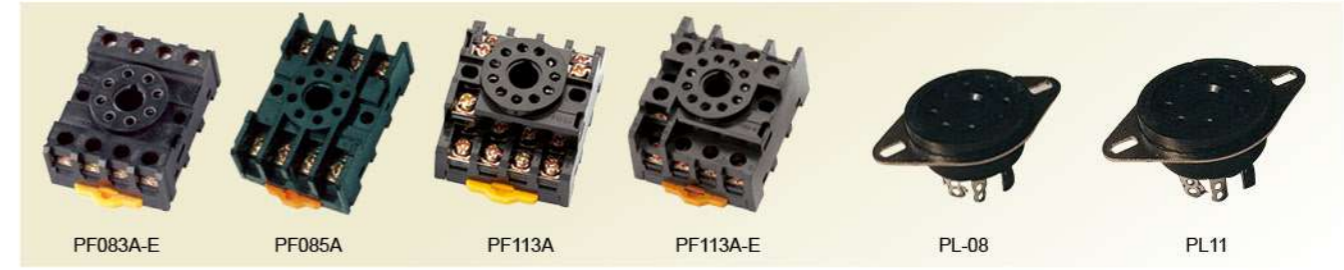
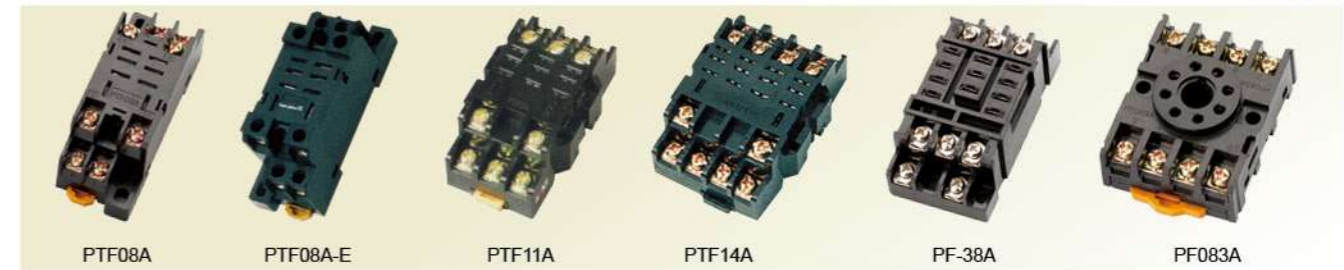
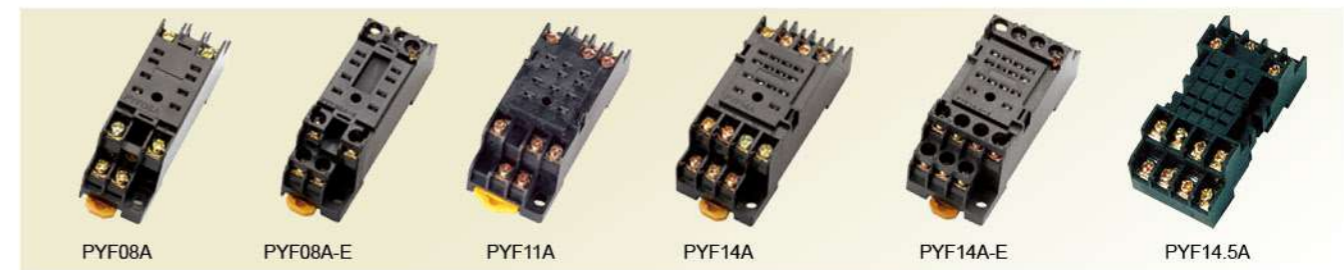


Type	Input Voltage	Output Voltage	Output Current
SSR-10DA	3-32VDC	24-380V AC	10A
SSR-20DA	3-32VDC	24-380V AC	20A
SSR-25DA	3-32VDC	24-380V AC	25A
SSR-40DA	3-32VDC	24-380V AC	40A
SSR-10AA	80-250VDC	24-380V AC	10A
SSR-20AA	80-250VDC	24-380V AC	20A
SSR-25AA	80-250VDC	24-380V AC	25A
SSR-40AA	80-250VDC	24-380V AC	40A

Type	Input Voltage	Output Voltage	Output Current
ZG3NC-210B	3-32VDC	30-240V AC	10A
ZG3NC-310B	3-32VDC	90-480V AC	10A
ZG3NC-215B	3-32VDC	30-240V AC	15A
ZG3NC-315B	3-32VDC	90-480V AC	15A
ZG3NC-220B	3-32VDC	30-240V AC	20A
ZG3NC-320B	3-32VDC	90-480V AC	20A
ZG3NC-225B	3-32VDC	30-240V AC	25A
ZG3NC-325B	3-32VDC	90-480V AC	25A
ZG3NC-240B	3-32VDC	30-240V AC	40A
ZG3NC-340B	3-32VDC	90-480V AC	40A
ZG3NC-250B	3-32VDC	30-240V AC	50A
ZG3NC-350B	3-32VDC	90-480V AC	50A
ZG3NC-260B	3-32VDC	30-240V AC	60A
ZG3NC-360B	3-32VDC	90-480V AC	60A
ZG3NC-270B	3-32VDC	30-240V AC	70A
ZG3NC-370B	3-32VDC	90-480V AC	70A
ZG3NC-280B	3-32VDC	30-240V AC	80A
ZG3NC-380B	3-32VDC	90-480V AC	80A
ZG3NC-210A	80-250V AC	30-240V AC	10A
ZG3NC-310A	80-250V AC	90-480V AC	10A
ZG3NC-215A	80-250V AC	30-240V AC	15A
ZG3NC-315A	80-250V AC	90-480V AC	15A
ZG3NC-220A	80-250V AC	30-240V AC	20A
ZG3NC-320A	80-250V AC	90-480V AC	20A
ZG3NC-225A	80-250V AC	30-240V AC	25A
ZG3NC-325A	80-250V AC	90-480V AC	25A
ZG3NC-240A	80-250V AC	30-240V AC	40A
ZG3NC-340A	80-250V AC	90-480V AC	40A
ZG3NC-250A	80-250V AC	30-240V AC	50A
ZG3NC-350A	80-250V AC	90-480V AC	50A
ZG3NC-260A	80-250V AC	30-240V AC	60A
ZG3NC-360A	80-250V AC	90-480V AC	60A
ZG3NC-270A	80-250V AC	30-240V AC	70A
ZG3NC-370A	80-250V AC	90-480V AC	70A
ZG3NC-280A	80-250V AC	30-240V AC	80A
ZG3NC-380A	80-250V AC	90-480V AC	80A

Type	Input Voltage	Output Voltage	Output Current
ZG33-310B	3-32VDC	30-240V AC	10A
ZG33-320B	3-32VDC	90-480V AC	20A
ZG33-325B	3-32VDC	30-240V AC	25A
ZG33-340B	3-32VDC	90-480V AC	40A
Z333-310A	80-250V AC	90-480V AC	10A
Z333-320A	80-250V AC	90-480V AC	20A
Z333-325A	80-250V AC	90-480V AC	25A
ZG33-340A	80-250V AC	90-480V AC	40A

Relay Socket



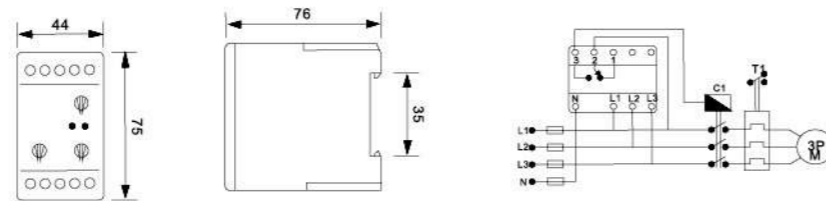
Phase Failure and Phase Sequence Relay



CEP-01

◆ CEP-01 Phase Failure Device

Rated Voltage(Un)	230V AC 3 phase+Neutra1:4 Wires Star Connection
Operating Range	$(0.9-1.1) \times Un$
Rated Frequency	50/60 Hz
Output Contact	1C/O with 5A, 1250 VA
Warning Led	LED normally ON
Ambient Temperature	-5°C to+50°C
Protection Class	IP 20
Installation	Surface mounting or on the mounting rails
Weight	0.3 kg



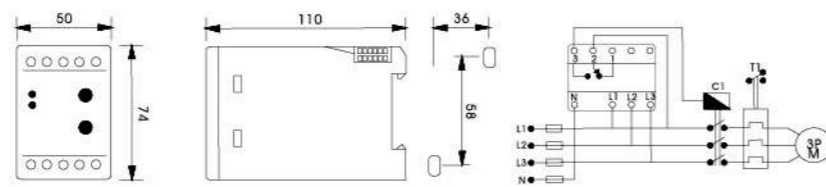
CEP-01



CEP-03

◆ CEP-03 Phase Failure and Phase Sequence Relay

Rated Voltage(Un)	220V AC	3 phase+neutra1:4 wires connection
	120V AC	3 phase+neutra1:4 wires connection
	380V AC	3 phase:3 wires connection
	440V AC	3 phase:3 wires connection
Operating Range	$(0.9-1.1) \times Un$	
Rated Frequency	50/60 Hz	
Output contacts	1 C/O with 8A 2000VA(For resistive load)	
Ambient Temperature	-5°C to+50°C	
Protection Class	IP 20	

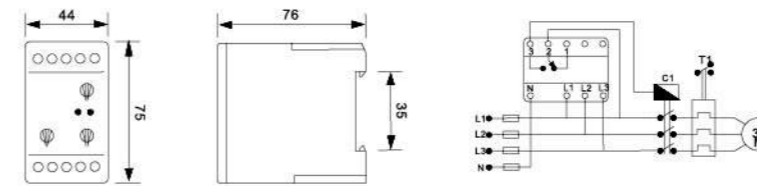


CEP-03

Phase Failure and Phase Sequence Relay

◆ CEP-05 Phase Failure and Phase Sequence Relay

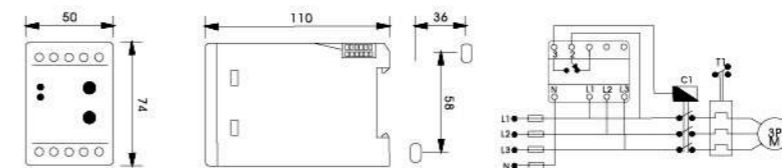
Rated Voltage(Un)	220V AC	3 phase+neutral:4 wires connection
	120V AC	3 phase+neutral:4 wires connection
	380V AC	3 phase:3 wires connection
	440V AC	3 phase:3 wires connection
Operating Range	$(0.9-1.1) \times Un$	
Rated Frequency	50/60 Hz	
Output contacts	1 C/O with 8A 2000VA(For resistive load)	
Ambient Temperature	-5°C to+50°C	
Protection Class	IP 20	



CEP-05

◆ CEP-05P Phase Failure and Phase Sequence Relay

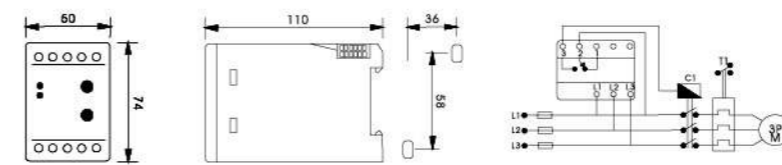
Rated Voltage(Un)	220V AC	3 phase+neutral:4 wires connection
	120V AC	3 phase+neutral:4 wires connection
	380V AC	3 phase:3 wires connection
	440V AC	3 phase:3 wires connection
Operating Range	$(0.9-1.1) \times Un$	
Rated Frequency	50/60 Hz	
Output contacts	1 C/O with 8A 2000VA(For resistive I type)	
Ambient Temperature	-5°C to+50°C	
Protection Class	IP 20	



CEP-05P

◆ CEP-06P Phase Failure and Phase Sequence Relay

Rated Voltage(Un)	220V AC	3 phase+neutral:4 wires connection
	120V AC	3 phase+neutral:4 wires connection
	380V AC	3 phase:3 wires connection
	440V AC	3 phase:3 wires connection
Operating Range	$(0.9-1.1) \times Un$	
Rated Frequency	50/60 Hz	
Output contacts	1 C/O with 8A 2000VA(For resistive load)	
Ambient Temperature	-5°C to+50°C	
Protection Class	IP 20	



CEP-06P



CEP-05



CEP-05P



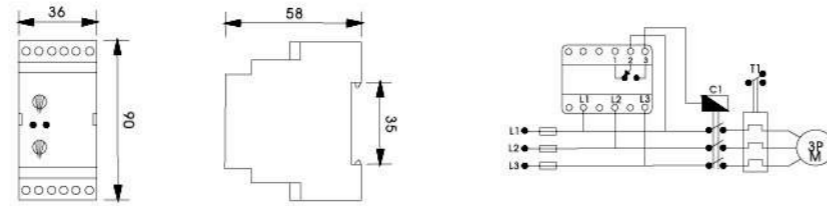
CEP-06P

Phase Failure and Phase Sequence Relay



◆ CEP-06 Phase Failure and Phase Sequence

Rated Voltage(Un)	220V AC	3 phase+neutral:4 wires connection
	120V AC	3 phase+neutral:4 wires connection
	380V AC	3 phase:3 wires connection
	440V AC	3 phase:3 wires connection
Operating Range	(0.9-1.1) × Un	
Rated Frequency	50/60 Hz	
Output contacts	1 C/O with 8A 2000VA(For resistive load)	
Ambient Temperature	-5°C to+50°C	
Protection Class	IP 20	



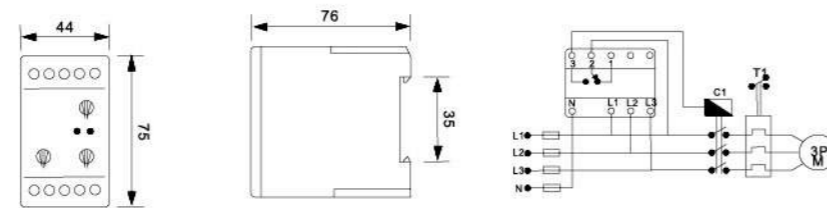
CEP-06



Voltage Monitoring Device

◆ CEKP-02 Voltage Monitoring Device

Rated Voltage (Vin)	Look at the label of the device
Rated Frequency	50/60 Hz
Voltage Adjustment(L-L)	Umax: (1.05-1.30) × Vin
	Umin: (0.70-0.95) × Vin
Delay Time	0.1-10sn.min.(adjustable)
Output Contact	1C/O,BA,2000VA,cosΦ)=1
Set Point Hysteresis	%3
Ambient Temperature	-5°C +50°C
Installation	Surface mounted or rail-mounted
Protection Class	IP 20

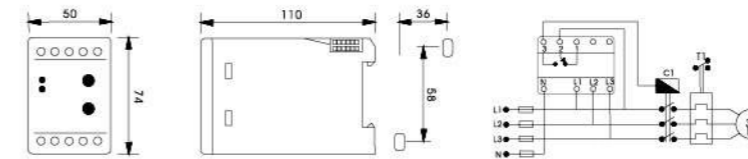


CEKP-02

Voltage Monitoring Device

◆ CEKR-02F Voltage Monitoring Device

Rated Voltage(Un)	Look at the label of the device
Rated Frequency	50/60 Hz
Voltage Adjustment(L-L)	Umax: (1.05-1.30) × Vin
	Umin: (0.70-0.95) × Vin
Delay Time	0.1-10sn.min.(adjustable)
Operating Range	1C/O,BA,2000VA,cosΦ=1
Rated Frequency	%3
Output contacts	-5°C +50°C
Ambient Temperature	Surface mounted or rail-mounted
Protection Class	IP 20



CEKR-02F

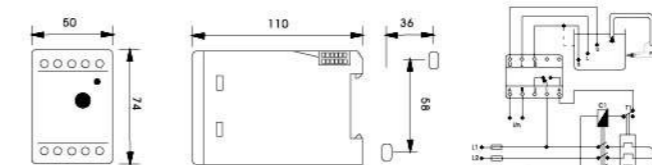


CEKR-02F

Liquid Level Controller

◆ CESR Liquid Level Controller

Model	CESR
Rated Voltage (Vin)	AC 220V ± 15%
Control Function	Waterlevel contact resistance adjustable (water supply, water draining)
Contact Capacity	AC 220V , 5A
	AC 380V, 3A
Mechanical life	1 × 10 ⁶ times
Electrical life	1 × 10 ⁵ times
Installation	Rail-mounted



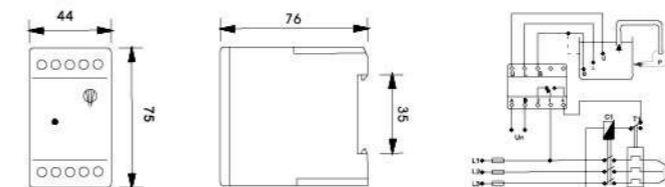
CESR



CESR

◆ CESR-04 Liquid Level Controller

Model	CESR-04
Rated Voltage (Vin)	AC 220V ± 15%
Control Function	Waterlevel contact resistance adjustable (water supply, water draining)
Contact Capacity	AC 220V , 5A
	AC 380V, 3A
Mechanical life	1 × 10 ⁶ times
Electrical life	1 × 10 ⁵ times
Installation	Rail-mounted
	Surface-mounted,Rail-mounted



CESR-04



CESR-04

Hour Meter



SYS



HM-1



N TYPE



Y TYPE

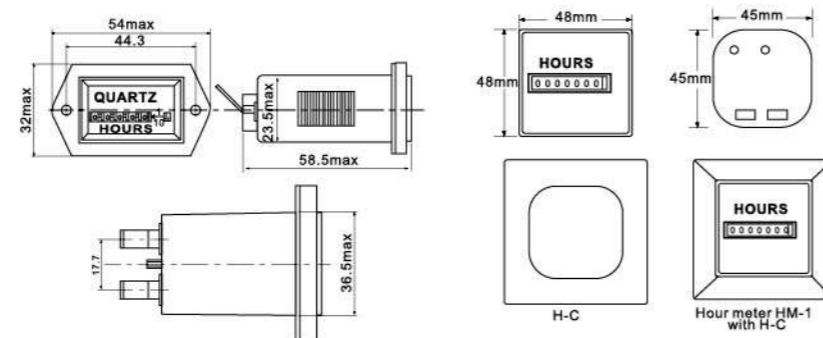


L TYPE

◆ Specifications

Type	SYS	HM-1
Supply Voltage	DC12-36V,30-60V	AC110V,220V/50Hz
Dimensions	54X32X58.5	48x48x40
Timing Range	0-9999.9Hours	0-99,999.99Hours
Net Weight	50g	50g

◆ Dimensions



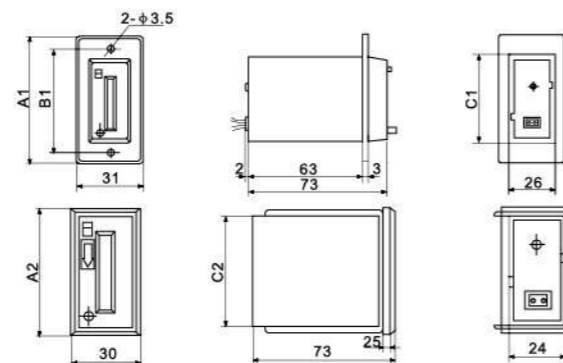
Electromagnetic Counter

◆ Specifications

Specs	Type	CSK4-YKW/NKW/LKW CSK6-YKW/NKW/LKW	CSK5-YKW/NKW/LKW
Voltage		AC110V,220V	DC-12V,24V
Tolerance		Rated Voltage-15%~+10%	
Consumption		3VA	3.5W
Counting Speed		10CPS	20CPS
Life		20,000,000 Times	
Test		AC-1,500V(50/60Hz)1 minute(Dielectric)	

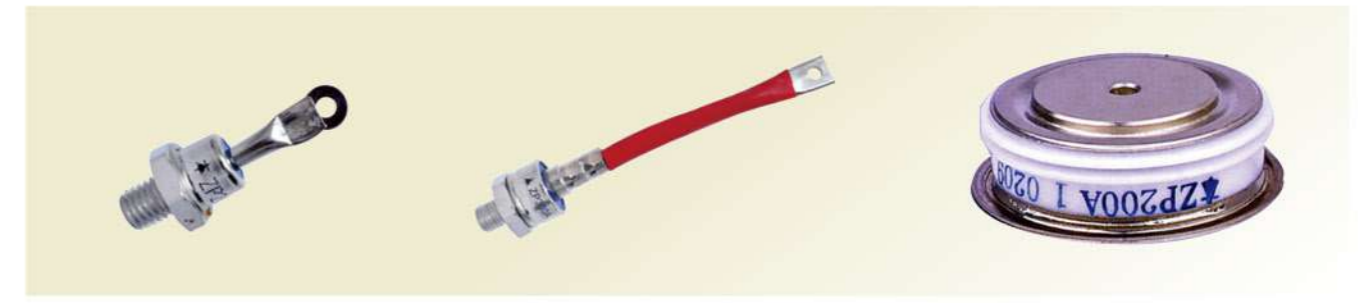
Type	Dimensions(mm)				
	A1	B1	C1	A2	C2
CSK4-YKW/NKW/LKW	60	50	36.5	40	35
CSK5-YKW/NKW/LKW	67	57	42	46	41
CSK6-YKW/NKW/LKW	72	63	47	51.5	46.5

◆ Dimensions



Diodes

◆ Standard Recovery Diodes



◆ I . Stud Model

Type	IF(AV)	VDRM V	IRRM V	IRRM mA	Rjc °C / W	Tj °C
ZP5A	5	≤ 1.6	100~5000	≤ 2	≤ 0.30	-40~+125
ZP10A	10			≤ 0.20		
ZP20A	20			≤ 1.4		
ZP30A	30			≤ 1.0		
ZP50A	50			≤ 0.6		
ZP100A	100			≤ 0.3		
ZP200A	200	≤ 1.8	100~5000	≤ 12	≤ 0.2	-40~+125
ZP300A	300			≤ 0.11		
ZP500A	500			≤ 0.068		

◆ II. Discus Model

Type	IF(AV)	VDRM V	IRRM V	IRRM mA	Rjc °C / W	Tj °C
ZP100A	100	≤ 1.8	100~5000	≤ 5	≤ 0.03	-40~+125
ZP200A	200			≤ 10	≤ 0.20	
ZP300A	300			≤ 0.11		
ZP500A	500			≤ 0.095		
ZP800A	800			≤ 0.068		
ZP1000A	1000			≤ 0.042		
ZP1500A	1500			≤ 0.034		
ZP2000A	2000			≤ 0.021		
ZP2500A	2500			≤ 0.020		
ZP3000A	3000			≤ 0.011		
ZP3500A	3500	≤ 30	100~5000	≤ 25	≤ 0.021	-40~+125
ZP4000A	4000			≤ 0.020		
ZP5000A	5000			≤ 0.011		

◆ Phase Control Thyristors



◆ I . Stud Model

Type	IF (AV)	VTM V	VDRM V	IDRM V	IGT mA	VGT V	I H mA	Dv/dt V/us	Di/dt V/us	Tj°C	Rjc °C / W
KP5A	5	≤ 2.2	100~2000	≤ 8	5~60	≤ 2.5	15~200	≥ 50	—	-40~+125	≤ 3.0
KP10A	10										≤ 2.5
KP20A	20										≤ 1.0
KP30A	30										≤ 0.5
KP50A	50										≤ 0.14
KP100A	100										≤ 0.11
KP200A	200	≤ 2.4	100~2000	≤ 10	5~150	≤ 3.0	15~300	≥ 100	-40~+125	≤ 0.11	
KP300A	300									≤ 0.11	
KP500A	500									≤ 0.08	
										≤ 0.08	
										≤ 0.04	
		≤ 2.6	100~2000	≤ 30	15~400	≤ 30	15~400	≥ 3200	-40~+125	≤ 0.08	
										≤ 0.08	
										≤ 0.04	

Diodes

◆ II. Discus Model

Type	IF(AV)	V _{TM} V	V _{DRM} V	I _{DRM} V	IGT mA	V _{GT} V	I _H mA	Dv/dt V/us	Di/dt V/us	T _J °C	R _{jc} °C/W
KP100A	100	≤ 2.6	100~5000	≤ 15	5~200	≤ 2.5	15~200	≥ 200	≥ 1000	-40~+125	≤ 0.11
KP200A	200				≤ 0.11						
KP300A	300				≤ 0.08						
KP500A	500			≤ 30	5~250	15~300	≤ 0.04				
KP800A	800				15~300	≤ 0.026					
KP1000A	1000				≤ 0.020						
KP1500A	1500			≤ 45	15~400	≤ 3.0	15~400				≤ 0.020
KP2000A	2000										≤ 0.012
KP2500A	2500										≤ 0.010
KP3000A	3000			≤ 0.010							≤ 0.010
KP3500A	3500										≤ 0.010
KP4000A	4000										≤ 0.010
KP5000A	5000										≤ 0.010

◆ Bi-directional Triode Thyristors



◆ I . Stud Model

Type	IT(RSM) A	V _{TM} V	V _{DRM} V	I _{DRM} A	IGT mA	V _{GT} V	I _H mA	Dv/dt V/us	T _J °C	R _{jc} °C/W
KS5A	5	≤ 2.6	100~2000	≤ 30	≤ 350	≤ 3.5	≤ 250	≥ 100	-40~+125	≤ 0.11
KS10A	10									
KS20A	20									
KS50A	50									
KS100A	100									
KS200A	200									

◆ II .Discus model

KS100A	100	≤ 2.6	100~2000	≤ 30	≤ 350	≤ 3.5	≤ 350	≥ 200	-40~+125	≤ 0.11			
KS200A	200									≤ 0.08			
KS300A	300									≤ 40	≤ 400	≤ 400	≤ 0.04
KS500A	500												
KS800A	800												
KS1000A	1000												

Diode Modules

◆ Features

- Electrical-isolated chip and baseboard AC 2500V
- Sealing package according to international standard
- Full crimping structure, sensitive to temperature and power cycle duty
- Modules under 350A with compulsive wind-cooling. Modules under 400A either with-wind-cooling or water-cooling
- Convenient installation, use and maintenance
- Compact and lightweight
- Welding technique under the protection of V ACuum and hydrogen gas

◆ Typical Applications

- DC power supply for instrumentand equipment
- AC/DC motor controls
- Various rectifying power supplies
- Soft start
- Welder
- Converter
- Battery charge and discharge

◆ Diode Modules(MDC,MDK,MDA,MDX,MD)

Type	I _F (AV)	V _{RRM}	V _{TM} /I _{TM}	I _{RRM}	I _F (RMS)	T _{Jm}	V _{ISO}	Outline
	A	V	V/A	mA	A	°C	V(AC)	
MDx25A	25	400~2600	1.5/80	8	41	150	2500	101F
MDx55A	55	400~2600	1.5/170	8	86	150	2500	101F
MDx70A	70	400~2600	1.5/270	8	110	150	2500	201F
MDx90A	90	400~2600	1.5/270	8	141	150	2500	201F
MDx110A	110	400~2600	1.5/330	8	173	150	2500	201F
MDx130A	130	400~2600	1.5/410	12	212	150	2500	301F
MDx160A	160	400~2600	1.5/480	12	251	150	2500	301F
MDx200A	200	400~2600	1.5/600	12	314	150	2500	301F/401F
MDx250A	250	400~2600	1.5/750	20	393	150	2500	401F
MDx300A	300	400~2600	1.5/900	20	471	150	2500	401F
MDx400A	400	400~2600	1.65/1000	40	640	150	2500	501F
MDx500A	500	400~2600	1.65/1500	40	785	150	2500	501F
MDx600A	600	400~2600	1.65/2000	40	785	150	2500	601F
MDx800A	800	400~2600	1.65/2400	40	785	150	2500	601F
MDx1000A	1000	400~2600	1.65/3000	40	785	150	2500	701F
MDx500A*	500	400~2600	1.65/1500	40	785	150	2500	801F
MDx800A*	800	400~2600	1.65/2400	40	1256	150	2500	901F

Note: MDX in type column of water-cooling module represents any one of import models of MDC, MDK, MDA, MDX, MD, etc.

The corresponding home-made models of RM, SKKD, DD, MDD, 2RI and 100L, subject to circuit diagram.



Bridge Rectifiers



Features

- Current: 5-250A
- Voltage: 100-1600V
- Miniature universal dimensions, welding technique under the protection of V ACuum and hydrogen gas
- Glass passivated diode chips
- Excellent force and volume ratio
- High thermal conductive sealing package

Typical Applications

- Rectifier current
- Industrial automatic control
- Digital-controlled machine and remote control system

Ordering Information Table

Device Code | KBPC | 35 | 10

- ① Rectifiers KBPC and QL are single-phase bridge while SQL is three-phase bridge
- ② DC output current value
- ③ Recurrent Peak Reverse Voltage VRRM is 100 times of indicated value

Single-phase Bridge Rectifier Characteristics

Type	I _D	I _F (AV)	V _{RRM}	I _{RRM}	V _{ISO}	Outline
	A	A	V	mA	V	
KBPC5A-50A	5~50	2.5~17.5	100~1600	5	2500	28x28x22
GBPC5A-50A	5~50	2.5~17.5	100~1600	5	2500	28x28x22
QL5A-50A	5~50	2.5~25	100~1600	5	2500	32x32x24
QL5A-50A	5~50	2.5~25	100~1600	5	2500	32x60x25
QL-40A	40	20	100~1600	7	2500	60x100x55
QL-60A	60	30	100~1600	7	2500	60x100x55
QL-100A	100	50	100~1600	7	2500	60x100x55
QL-150A	150	75	100~1600	10	2500	132x145x175
QL-200A	200	100	100~1600	10	2500	132x145x175
QL-250A	250	125	100~1600	10	2500	132x145x175
QL-300A	300	150	100~1600	10	2500	132x145x175

Type	I _D	I _F (AV)	V _{RRM}	I _{RRM}	V _{ISO}	Outline
	A	A	V	mA	V	
KBPC5A-50A	5~50	2.5~17.5	100~1600	5	2500	28x28x22
GBPC5A-50A	5~50	2.5~17.5	100~1600	5	2500	28x28x22
QL5A-50A	5~50	2.5~25	100~1600	5	2500	32x32x24
QL5A-50A	5~50	2.5~25	100~1600	5	2500	32x60x25
QL-40A	40	20	100~1600	7	2500	60x100x55
QL-60A	60	30	100~1600	7	2500	60x100x55
QL-100A	100	50	100~1600	7	2500	60x100x55
QL-150A	150	75	100~1600	10	2500	132x145x175
QL-200A	200	100	100~1600	10	2500	132x145x175
QL-250A	250	125	100~1600	10	2500	132x145x175
QL-300A	300	150	100~1600	10	2500	132x145x175

CER1 Thermal Relay

Application

CER1 series thermal relay is suitable for thermal protection in the circuit with AC 50 or 60Hz, voltage up to 660V, motor power up to 45KW or less. It has different attachment and temperature compensating function. It can be fixed on contactor and can also be fixed independently. The product is made in accordance with IEC60292-1.

Specifications

Type	Adjusting Range of Current(A)	Control Power(AC)(KW)					Plug in Contactor
		220V	380V	415V	440V	660V	
CER1- 09301	0.1-0.16	-	-	-	-	-	CEC2-09-25
CER1- 09302	0.16-0.25	-	-	-	-	-	CEC2-09-25
GER1- 09303	0.25-0.40	-	-	-	-	-	CEC2-09-25
CER1- 09304	0.40-0.63	-	-	-	-	0.37	CEC2-09-25
CER1- 09304	0.63-1	-	-	-	-	0.55	CEC2-09-25
GER1- 09306	1-1.6	-	0.37	-	0.55	0.7' 1.1	CEC2-09-25
CER1- 09307	1.6-2.5	0.37	0.55-0.75	1.1	0.55-0.75	1.5	CEC2-09-25
GER1- 09308	2.5-4	0.55-0.75	1.1-1.5	1.5	1.5	2.2-3	CEC2-09-25
CER1- 09310	4-6	1.1	2.2	2.2	2.2	4	CEC2-09-25
GER1- 09312	5.5-8	1.5	3	3~3.7	3~3.7	4	CEC2-09-25
CER1- 09314	7-0	2.2	4	4	4	5.5	CEC2-09-25
CER1- 09316	10-13	3	5.5	5.5	5.5	7.5	CEC2-09-25
CER1- 16321	13-18	4	7.5	9	9	10	CEC2-09-25
CER1- 25322	18-25	5.5	11	11	11	15	CEC2-09-25
GER1- 40353	23-32	7.5	15	15	15	18.5	CEC2-40 50 65
GER1- 40355	30-40	10	18.5	22	22	30	CEC2-40 50 65
GER1- 63357	38-50	11	22	25	25	37	CEC2-40 50 65
CER1- 63359	48-57	15	25	30	30	45	CEC2-40 50 65
GER1- 63361	57-66	18.5	30	37	37	55	CEC2-40 50 65
GER1-80363	63~80	22	33~37	40' 45	40~45	59' 63	CEC2-80



CER1-09



CER1-80

CER2 Thermal Relay

◆ Application

This series of thermal relay can be used in the circuit of 50Hz or 60Hz, rated insulation voltage 660V, rated current 0.1-93A for protecting the phase break when the electric motor is overload.

The relay has different mechanism and temperature compensation and can be plugged in CEC2 AC contactor.

◆ Specifications



Type	Rated Working Current of The Thermal Relay	Thermal Component		
		Rated Current (A)	Rated or Scale of Rated Current(A)	
CER2-13	25	CER2-1301	0.16	0.10-0.16
		CER2-1302	0.25	0.16-0.25
		CER2-1303	0.40	0.25-0.40
		CER2-1304	0.63	0.41-0.63
		CER2-1305	1.0	0.63-1.0
		CER2-1306	1.6	1.0-1.6
		CER2-13X6	2.0	1.25-2.0
		CER2-1307	2.5	1.6-2.5
		CER2-1308	4.0	2.5-4.0
		CER2-1310	6.0	4.0-6.0
		CER2-1312	8.0	5.5-8.0
		CER2-1314	10.0	7.0-10.0
		CER2-1316	13.0	9.0-13.0
		CER2-1321	18.0	12.0-18.0
CER2-1322	25.0	17.0-25.0		
CER2-23	36	CER2-2353	32	23.0-32.0
		CER2-2355	36	28.0-36.0
CER2-33	93	CER2-3353	32	23.0-32.0
		CER2-3355	40	30.0-40.0
		CER2-3357	50	37.0-50.0
		CER2-3359	65	48.0-65.0
		CER2-3361	70	55.0-70.0
		CER2-3363	80	63.0-80.0
		CER2-3365	93	80.0-93.0

1.Fundamental parameter of the main circuit

- (a).Rated insulation voltage 660V.
- (b).Rated working current 25,36,93A separately.
- (c).The regulator seal of rated setting current and setting.
- (d). Current of the thermal component(see list 1)

2.Auxiliary circuit

- (a). There are one pair of N/O and N/C contact with electric insulation.
- (b).Rated insulation voltage 500V.
- (c). Use frequency 50-60Hz.
- (d).Use group. Rated working vo tage, appoint thermal current and rated current.

Use Group	ACLL			DCLL	
	220	380	500	220	110
Rated Working Voltage(V)	220	380	500	220	110
Rated Working Current(A)	4	3	2	01	0.22
Appointed Thermal Current(A)	5				

CER Thermal Overload Relay

◆ Application

This series of thermal overload relay can be used in the circuit of 50Hz or 60Hz, rated insulation voltage 660V, rated current 0.1-1 40A for protecting the phase break when the electric motor is overload . The relay has different mechanism and temperature compensation and can be plugged in CEC2N series AC contactor. It is the most advanced thermal relay in the nineties in the world.the products comply with IEC 60947-5.

◆ Specifications

Type	Rated Working Current of The Thermal Relay		Thermal Component		
			Rated Current (A)	Rated or Scale of Rated Current(A)	
CER-13	25	CER	1301	0.16	0.10-0.16
			1302	0.25	0.16-0.25
			1303	0.40	0.25-0.40
			1304	0.63	0.40-0.63
			1305	1.0	0.63-1.0
			1306	1.6	1.0-1.6
			1307	2.5	1.6-2.5
			1308	4.0	2.5-4.0
			1310	6.0	4.0-6.0
			1312	8.0	5.5-8.0
			1314	10.0	7.0-10.0
			1316	13.0	9.0-13.0
			1321	18.0	12.0-18.0
			1322	25.0	16.0-24.0
CER-23	38	CER	2332	32	23.0-32.0
			2335	38	30.0-38.0
CER-33	140	CER	3322	25	17.0-25.0
			3353	32	23.0-32.0
			3355	40	30.0-40.0
			3357	50	37.0-50.0
			3359	65	48.0-65.0
			3361	70	55.0-70.0
			3363	80	63.0-80.0
			3365	104	80.0-104.0
			3367	120	95.0-120.0
			3369	140	110.0-140.0
CER-34	140	CER	4365	104	80.0-104.0
			4367	120	95.0-120.0
			4369	104	110.0-140.0



CER7 Thermal Overload Relay

◆ Application

This series of thermal overload relay can be used in the circuit of 50/60Hz, rated insulation voltage 660V, rated current 0.1-85A for protecting the phase break when the electric motor is overload. The relay has different mechanism and temperature compensation and can be plugged in CEC7 series AC contractor. The products comply with IEC 60947-5.

◆ Specifications

Type	Thermal Component	
	Rated Current (A)	Rated or Scale of Rated Current(A)
CER7-22	0.14	0.10-0.16
	0.21	0.16-0.25
	0.33	0.25-0.40
	0.52	0.40-0.63
	0.82	0.63-1.0
	1.3	1.0-1.6
	2.1	1.6-2.5
	3.3	2.5-4.0
	5	4.0-6.0
	6.5	5.0-8.0
	7.5	6.0-9.0
	8.5	7.0-10.0
	11	9.0-13.0
CER7-40	15	12.0-18.0
	19	16.0-22.0
	5	4.0-6.0
	6.5	5.0-8.0
	7.5	6.0-9.0
	8.5	7.0-10.0
	11	9.0-13.0
	15	12.0-18.0
	19	16.0-22.0
	22	18.0-26.0
CER7-85	30	24.0-36.0
	34	28.0-40.0
	8.5	7.0-10.0
	11	9.0-13.0
	15	12.0-18.0
	19	16.0-22.0
	22	18.0-26.0
	30	24.0-36.0
	34	28.0-40.0
	42	34.0-50.0
55	45.0-65.0	
65	54.0-75.0	
74	63.0-85.0	



CER3 Thermal Relay

◆ Application

CER3 thermal relay is suitable for using in power system with AC 50Hz, rated operation voltages up to 660V and 1000V, in main circuit, current from 0.1A to 630A. It is used to protect AC three-phase asynchronous motor against overload and open-phase.

The current setting value can be regulated and the setting current value of many thermal elements are intercrossing arrangement, for easy selecting by the customers from -25 °C to +55 °C air temperature as the products have temperature compensating. The relays have the test push-button for breaking NC contacts, the operating indication and free trip characteristics, it conforms to IEC60292-1, IEC60 337-1 & VDE0660.

◆ Specifications

Type	Rated Operating Current (A)	Rated Insulation Voltage (V)	Current Setting Range (A)
CER3-50	12.5	660	0.1~0.16, 0.16~0.25, 0.25~4, 0.32~0.63, 0.63~0.1, 0.8~1.25, 1~1.6, 1.25~2, 1.6~2.5, 2~3.2, 2.5~4, 3.2~5, 3.2~5.4~6.3, 5~8, 6.3~10, 8~12.5
CER3-52	25	660	0.1~0.16, 0.16~0.25, 0.25~4, 0.32~0.63, 0.63~0.1, 0.8~1.25, 1~1.6, 1.25~2, 1.6~2.5, 2~3.2, 2.5~4, 3.2~5.4~6.3, 5~8, 6.3~10, 8~12.5, 10~16, 12.5~20, 16~25
CER3-54	32	660	4~6.3, 6.3~10, 10~16, 12.5~20, 16~25, 20~32,
CER3-58	80	1000	16~25, 20~32, 25~40, 32~50, 40~57, 50~63, 57~70, 63~80
CER3-59	63	600	0.1~0.16, 0.16~0.25, 0.25~4, 0.32~0.63, 0.63~0.1, 0.8~1.25, 1~1.6, 1.25~2, 1.6~2.5, 2~3.2, 2.5~4, 3.2~5.4~6.3, 5~8, 6.3~10, 8~12.5, 10~16, 12.5~20, 16~25, 20~32, 25~40, 32~45, 40~57, 50~63
CER3-62	180	660	55~80, 63~90, 80~110, 90~120, 110~135, 120~150, 135~160, 150~180
CER3-66	400	1000	80~125, 125~200, 180~250, 200~320, 250~400
CER3-68	630	1000	320~500, 400~630



CER8 Thermal Relay



◆ Application

The thermal overload relays are suitable for overload protection of AC motor operated on 8-hours duty or uninterrupted duty. The overload protected AC motor with frequency 50Hz., Voltage up to 660V, current up to 40A. Series functions provided by these relays are phase-failure protection, temperature compensation, ON/OFF indication and manual/automatic reset. The relays comply with IEC60292-1 standard.

◆ Specifications

Type	Plug in AC Contact	Rated Current of Thermal Element (A)	Setting Current Range (A)
CER8-12	CEC8-10,CEC8-11 CEC8-12,CEC8-18	0.24,0.35,0.5,0.7,0.9,1.3 1.7,2.1,2.5,3.6,5,6,9,11	0.2-0.28,0.28-0.42,0.4-0.6,0.55-0.85, 0.7-1.1,1.1-1.6,1.4-2,1.7-2.1,2-3, 2.8-4.4,4.4-6,5.2-8,7-11,9-13
CER8-20	CEC8-20,CEC8-21 CEC8-25,CEC8-35	2.1,2.5,3.6,5,6,9,11, 15,19,22,29,35	1.7-2.1,2-3,2.8-4.4,4-6, 5.2-8,7-11,9-13,12-18, 16-22,18-26,24-34,30-40
CER8-60	CEC8-50,CEC8-65 CEC8-80,CEC8-95	42,54	34-50,43-65



Thermal Element Rated Current (A)	Rated Setting Range (A)	Motor Rated Capacity(KW)		
		220~240V	380~440V	500~550V
3	2~3~4	0.75	1.5	2.2
6	4~6~8	1.5	3.7	4.5
12	8~12~16	3.7	7.5	9

Operation characteristics

Code	Motion Current (set Current Cinles)	Motion Time	Start State	Ambient Temperature
Am Potes Live Simulta-Neously	1	1.05	>2h	+20°C
	2	1.2	<2h	
	3	1.5	<2min	
	4	7.2	2S~10S	
Only Diod Live	1	Three pole 1.0	>2h	+40°C
	2	Two pole 1.25, Single pole 0	<2h	



CE5 Thermal Relay

◆ Feature

- Contact Configuration
- Universal Power Supply
- 2 LED Status Indicators
- SPDT/DPDT
- Rated Current 5A or 15A
- Only 17.5mm Wide
- DIN Rail Mountable
- CE ROHS Compliant

◆ Operating Volage

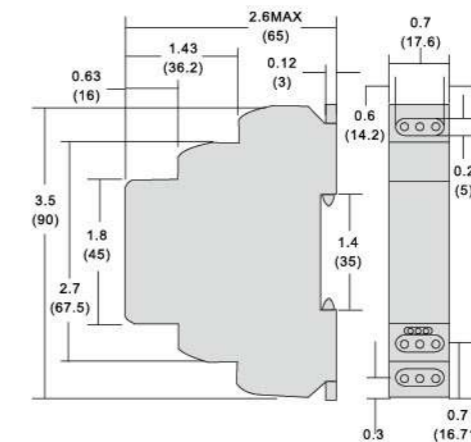
AC220V DC24V AC24V H00:AC/DC12-240V.....

◆ Specifications

Technical Data		
Spec	One Time-Delay,SPDT Second/Minute Selected	One Time-Delay,DPDT Second/Minute Selected
Description	Trigger Time Relay Modular Time Relay	Trigger Time Relay Modular Time Relay
Time Range	1S,2S~1M, 2M~1H,2H~30H Customized according to clients'requirements	
Functions	<p>SPDT</p>	<p>DPDT</p>



◆ Dimensions



CE5 Thermal Relay



CE5320

◆ Feature

- Contact Configuration
- Universal Power Supply
- 2 LED Status Indicators
- SPDT/DPDT
- Rated Current 5A or 15A
- Only 17.5mm Wide
- DIN Rail Mountable
- CE ROHS Compliant

◆ Operating Volage

AC220V DC24V AC24V H00:AC/DC12-240V.....

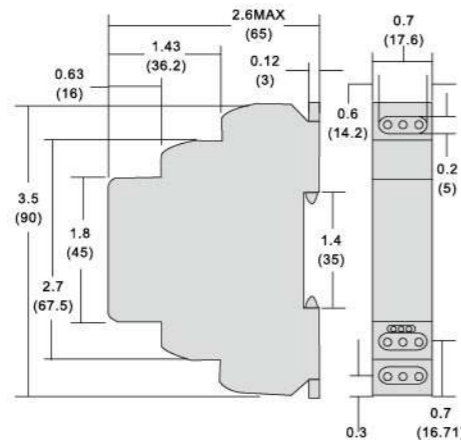
◆ Specifications

Technical Data		
Spec	Multi-period Time Delay,A/B Output Mode Selected A Mode:DPDT B Mode: One Inst, One Delay Output	Circulation Mode SPDT Second/Minute Selected
Description	Modular Time Relay	Modular Time Relay
Time Range	1S,2S~1M, 2M~1H,2H~30H Customized according to clients'requirements	
Functions	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>A Mode</p> <p>DPDT</p> </div> <div style="text-align: center;"> <p>B Mode</p> <p>One Inst. One Delay Output</p> </div> </div>	<div style="text-align: center;"> <p>Circulation Mode SPDT</p> </div>



CE5410

◆ Dimensions



F PRODUCTS CONTENTS SERIES

CEA ELECTRIC | www.ceaworld.com



Fuse

- 01 Cylindrical Fuse Link
- 02 Diazed Fuse Link
- 02 Fuse Holder
- 03 STN Modular Fuse Holders
- 03 SN Switch-fuse(Load Break) for Fuse-link D01 D02 Nedzed
- 04 Fuse Base
- 05 NH Low Voltage Fuse and Base
- 07 NT Low Voltage Fuse and Base
- 09 Bolt Fuse Link
- 11 RG Fuse Holder
- 11 Fuse Holder
- 11 Cut Out Fuse
- 12 Fuse Disconnecter
- 13 High Voltage Composite Insulator
- 14 Drop Out Fuse Cutout
- 16 Lightning Arrester

Cylindrical Fuse Link

◆ Application

Cylindrical fuse link with cylindrical contact caps is designed for protecting electrical distributing in rated current up to 125A. Against damage due to overload and short circuit. Fuse link with the striker is supplied for the purpose of protecting against motor single phasing operation when fitted in fuse-isolators. This product conforms with IEC60269 and VDE0636 standards.

◆ Specifications

Size(mm)	Rated Current(A)
8.5 × 31.5	0.5, 1, 2, 4, 6, 10, 16, 20, 25
10 × 38	0.5, 1, 2, 4, 6, 10, 16, 20, 25, 32
14 × 51	1, 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
22 × 58	2, 4, 6, 8, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125
30 × 58	63, 80, 100, 125



◆ Specifications

Size		Rated Current(A)
Glass Body	Φ5 × 20	0.0315, 0.04, 0.05, 0.063, 0.08, 0.1, 0.125, 0.16, 0.2, 0.25, 0.315, 0.4, 0.5, 0.63, 0.8, 1, 1.25, 1.6, 2, 2.5, 3, 3.15, 4, 5, 6, 3, 7, 8, 9, 10, 12, 15, 16
	Φ6 × 32	0.04, 0.05, 0.063, 0.08, 0.1, 0.125, 0.16, 0.2, 0.25, 0.315, 0.4, 0.5, 0.63, 0.8, 1, 1.25, 1.6, 2, 2.5, 3, 3.15, 4, 5, 6, 3, 7, 8, 9, 10, 12, 15, 16, 20
Porcelain Body	Φ5 × 20	1.6, 2, 2.5, 3, 3.15, 4, 5, 6, 3, 7, 8
	Φ6 × 32	0.0315, 0.04, 0.05, 0.063, 0.08, 0.1, 0.125, 0.16, 0.2, 0.25, 0.315, 0.4, 0.5, 0.63, 0.8, 1, 1.25, 1.6, 2, 2.5, 3, 3.15, 4, 5, 6, 3, 7, 8, 9, 10, 12, 16, 20, 25



Diazed Fuse Link

◆ Specifications

Type	Cap Type	Rated Current(A)
DI	E16	2,4,6,10,16,20,25
DII	E27	2,4,6,10,16,20,25
DIII	E33	32,35,40,50,63
D01	E14	2,4,6,10,13,16
D02	E18	20,25,32,35,40,50,63
D03	M30 × 2	80,100



Fuse Holder

◆ Application

ST series fuse-holder is adaptable to the distribution equipment with alternating voltage rating and up to 100A rated current protect the overload and short-circuit.

◆ Fuse Holder for cylindrical fuse-link 10 × 38



◆ Fuse holder for cylindrical fuse-link 14 × 51



STN Modular Fuse Holder



The modular fuse holder is designed to accommodate domestic and industrial fuse links. Products meet the requirements of IEC 60269 and 60947-3 Standard.

Most configurations are available in multiple pole configurations, an optional LED is available for domestic and industrial modular fuse holders for open circuit indication. Multi-phase connection accessories are also available.

14 × 51 & 22 × 58 fuse links are available with a micro-switch attachment for operated fuse indication (when using fuse links with a striker) and with per-breaking of fuse presence.

SN Switch-fuse (load Break) for Fuse-link D01 D02



◆ Application

The SN series switch-fuse can be applied as the power switch, infrequent cut-in and cut off the loading circuit of the power-distribution circuit under 50 or 60Hz, rated working voltage 415V of 240V, max-rated working current 63A. It also can be used for protection against the overload and short circuit and as the control switch for common aluminum loop circuit. This product conforms to the standards of IEC60408, IEC60269, B55419 and MS590.

◆ Specifications

Rated Voltage(V)	Rated Current of Fuse(A)	Size of Fuse Link	Rated Current of Fuse-link
415V AC 240V AC	16	D01	2,4,6,8,10,16
	32	D01	2,4,6,10,16,20,25,32
415V AC 240V AC	63	D02	35,40,45,50,60,63

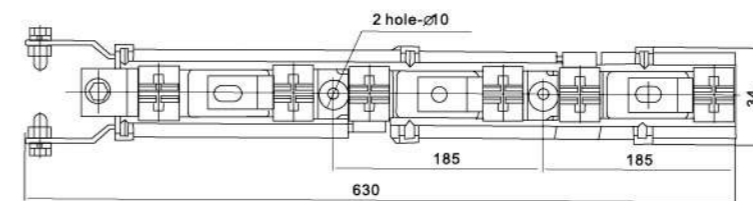
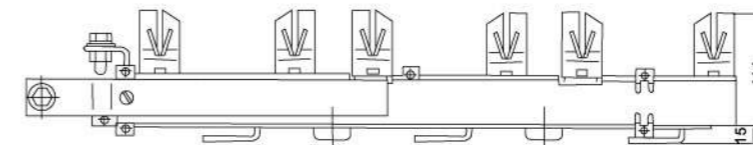
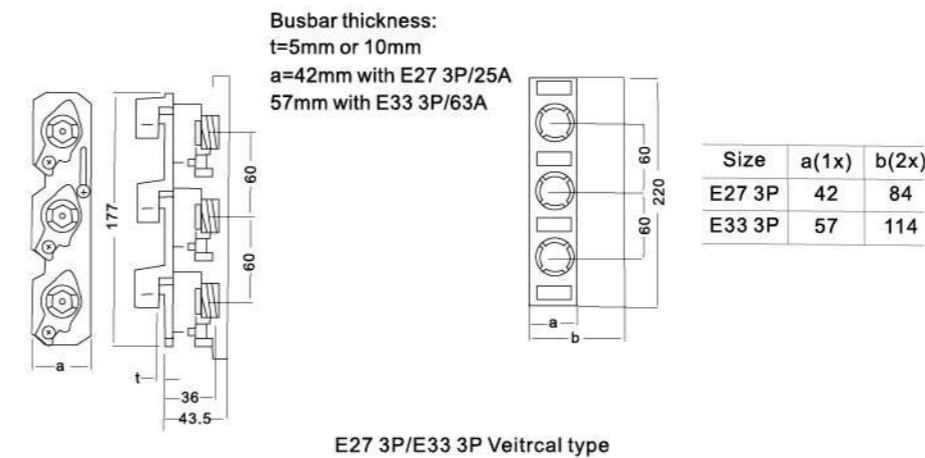


Fuse Base

◆ Specifications

Type	RL6-25	RL6-63
Rated Voltage	500V	500V
Rated Current of Fuse	25A	63A
Rated Current of Fuse	2,4,6,10,20,25A	35,50,63A
Rated Breaking Current	50kA cos Φ =0.1-0.2kg	50kA cos Φ =0.1-0.2kg
Overall Dimension	66 × 43 × 80	89 × 54 × 82
Weight	0.10kg	0.25kg

◆ Dimensions



NH Low Voltage Fuse And Base

◆ Application

General industrial application is for the protection of motor circuits.
Available at 500V AC, 400V AC or 690V AC.
Approved to IEC60269-2-1(VDE 0636)

◆ Specifications



Type	Fuse Link			Fuse Base		
	Rated Current(A)	Rated Voltage(V)	Weight (Kg)	Type	Rated Current(A)	Weight (Kg)
NH00C	2	500,690	0.16	Sist 101	160	0.16
	4					
	6					
	10					
	16					
	20					
	25					
	32					
	35					
	40					
	50					
	63					
NH00	80	500,690	0.16	Sist 101	160	0.16
	100					
	10					
	16					
	20					
	25					
	32					
	35					
	40					
	50					
	63					
	80					
NH1	100	500,690	0.64	Sist 201	250	0.64
	125					
	160					
	200					
	224					
	250					

NH Low Voltage Fuse And Base

◆ Specifications

Type	Fuse Link			Fuse Base		
	Rated Current(A)	Rated Voltage(V)	Weight (Kg)	Type	Rated Current(A)	Weight (Kg)
NH2	35	500, 690	0.96	Sist 401	400	0.96
	40					
	50					
	63					
	80					
	100					
	125					
	160					
	200					
	224					
	250					
	315					
NH3	350	500, 690	1.20	Sist 601	630	1.20
	400					
	420					
	500					
	630					
NH4	630	400	2.80	Sist 1001	1250	2.80
	800					
	100					
	1250					



NT Low Voltage Fuse and Base

◆ Application

NT low voltage H.R.C. fuse is designed with small size, less weight, low consumption but high breaking capacity, This product has been widely used in overload and short circuit protection of electric installations.

This product conforms to I EC60269 and VDE0636 standards with all of the rating at the world advanced level.

◆ Specifications



Type	Fuse Link				Fuse Base							
	Rated Current(A)	Rated Voltage(V)	Rated Power Loss(W)	Weight (Kg)	Type	Rated Current (A)	Weight (Kg)					
NT00C	2	500,690	0.41	0.15	Sist 101	160	0.2					
	4		0.62									
	6		0.81									
	10		1.08									
	16		1.60									
	20		1.81									
	25		2.31									
	32		3.07									
	35		3.17									
	40		4.05									
	50		4.25									
	63		4.70									
	80		5.7									
	100		7									
NT0	10	500,690	1.42	0.2	Sist 101	160	0.32					
	16		2.45									
	20		2.36									
	25		2.7									
	32		3.74									
	35		4.3									
	40		4.7									
	50		5.5									
	63		6.9									
	80		7.6									
	100		8.9									
	125		10.1									
	160		15.2									
	NT 1		80					500,690	6.2	0.36	Sist 201	250
100		7.5										
125		10.2										
160		13										
		200	500	15.2								
		224		16.8								
		250		18.3								

NT Low Voltage Fuse and Base

◆ Specifications

Type	Fuse Link				Fuse Base						
	Rated Current(A)	Rated Voltage(V)	Rated Power Loss(W)	Weight (Kg)	Type	Rated Current (A)	Weight (Kg)				
NT2	125	500, 690	69	0.65	Sist 401	400	1.2				
	160		11.5								
	200		15								
	224		16.6								
	250		18.4								
	300		21								
	315		19.2								
	355		24.5								
	400		26								
	415		21.7								
NT3	355	500, 690	22.7	0.85	Sist 601	630	1.5				
	400		26.8								
		425	500					28.9			
		630						40.3			
NT4	800	380	62	1.95	Sist 1001	1000	3.45				
	1000		75								



Bolt Fuse Link



NIT TIS AAO

◆ Application

The high breaking capacity fuse links are for low voltage industrial and general purpose applications meet the requirements of BS88 and IEC60269. The rated voltage is up to 690 V AC & 500V AC.

◆ Specifications

Type	Rated Current(A)
NIT	2, 4, 6, 10, 16, 20, 25, 32
TIS	32, 40, 50, 63
AAO	2, 4, 6, 10, 16, 20, 25, 32, 35, 40, 50, 63, 80, 100



TIA CD

◆ Specifications

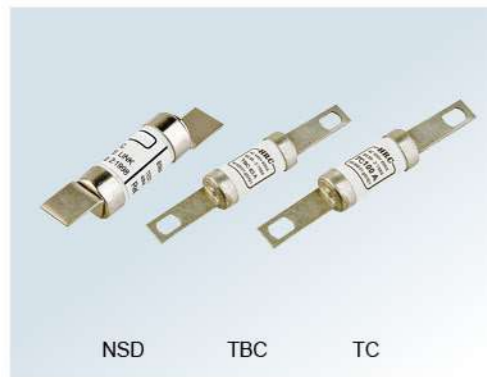
Type	Rated Current(A)
TIA	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
CD	80, 100



TCP TEP SSD

◆ Specifications

Type	Rated Current(A)
TCP	63, 80, 100
TEP	125, 160, 200
SSD	2, 4, 6, 10, 16, 20, 25, 32



NSD TBC TC

◆ Specifications

Type	Rated Current(A)
NSD	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
TBC	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
TC	80, 100

Bolt Fuse Link

◆ Specifications

Type	Rated Current(A)
TKF	250, 300, 355, 400
SF8	200, 400



TKF SF8

◆ Specifications

Type	Rated Current(A)
TF	125, 160, 200
TMF	315, 355, 400
TM	400



TF TMF TM

◆ Specifications

Type	Rated Current(A)
76J	20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200
83J	20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 355, 400
96J	20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400



76J 83J SSD

HG2B Fuse Disconnecter

◆ Specifications

Type	Assorted Fuse	Switch Rating Heat Current (A)	Rated Current(A)
HG2B-160A	NT00	160	4, 6, 10, 16, 20, 25, 32, 35, 40, 50, 63, 80, 100, 125, 160
HG2B-250A	NT1	250	80, 100, 125, 160, 200, 224, 250
HG2B-400A	NT2	400	125, 160, 200, 224, 250, 300, 315, 355, 400
H G2 B-630A	NT3	630	315, 335, 400, 425, 500, 630



HG2B-A HG2B-S

RG Fuse Holder



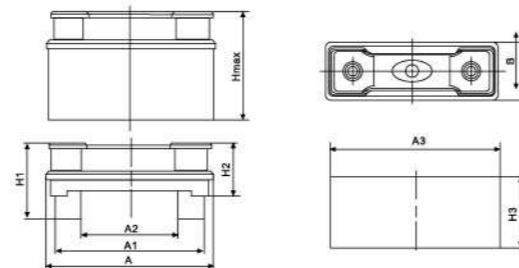
◆ Application

RG Fuse Holders are formed by fuse base and the fuse carrier. They are designed for working at rated voltage up to 660V AC, 50/60Hz, rated thermal current is up to 100A. The products comply with IEC60269 standard. They are widely used for protection against overload and short circuit in power distribution systems, and can also be used for main power disconnecting.

◆ Specifications

Type	Dimensions(mm)								
	A	A1	A2	A3	B	H	H1	H2	H3
RG32	68	57	38	68	26	49	35	19	33
RG63	105.5	92	60	104.5	35	67	46	32	43.7
RG100	129	114	72	129	50	94	75	405	62
RG200	178	170	75	178	71	130	106	44	81

◆ Dimensions



Fuse Holder



Cut Out Fuse



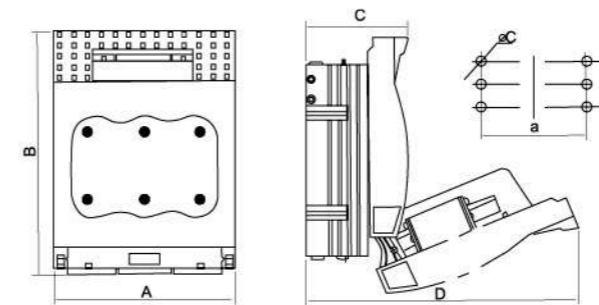
Fuse Disconnecter

◆ Specifications

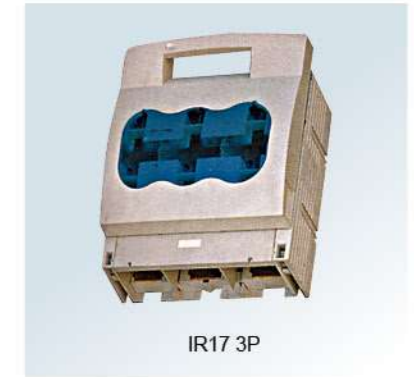
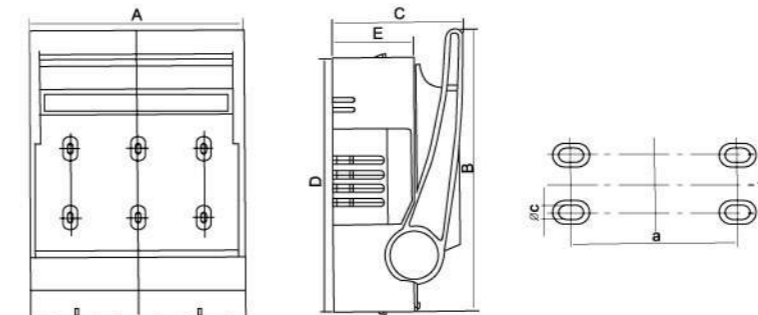
Switch Rating heat current(A)	Number of Poles	Assorted Fuse	Rated Current (A)
160	3, 4	NT00	4,6,10,16,20,25,32,35,40,50,63,80,100,125,160
250		NT1	80,100,125,160,200,224,250
400		NT2	125,160,200,224,250,300,315,355,400
630		NT3	315,335,400,425,500,630

◆ Dimensions

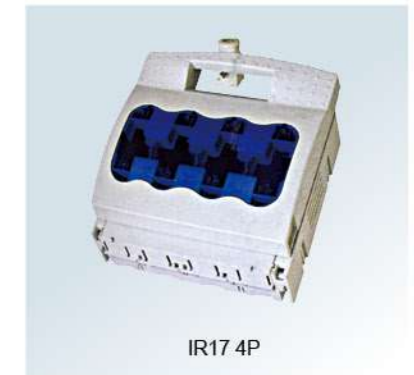
Type	Assorted Fuse	A	B	C	D	a	b	Φc
IR17-160/30	NT00	106	200	83	205	66	25	Φ7
IR17-250/30	NT1	185	247	110	295	114	50	Φ11
IR17-400/30	NT2	210	290	125	340	130	50	Φ11
IR17-630/30	NT3	256	300	145	360	162	50	Φ11
IR17-160/30	NT00	138	200	83	205	100	25	Φ7
IR17-250/30	NT1	242	247	110	295	172	50	Φ11
IR17-400/30	NT2	276	290	125	340	195	50	Φ11
IR17-630/30	NT3	340	300	145	360	243	50	Φ11



Type	Assorted Fuse	A	B	C	D	E	a	b	Φc
IR18-160	NT00	105	184	88	160	43	73	25	Φ7
IR18-250	NT1	184	268	116	230	66	115	50	Φ9
IR18-400	NT2	210	285	129	256	81	140	50	Φ9
IR18-630	NT3	256	328	138	315	86	150	50	Φ9



IR17 3P



IR17 4P

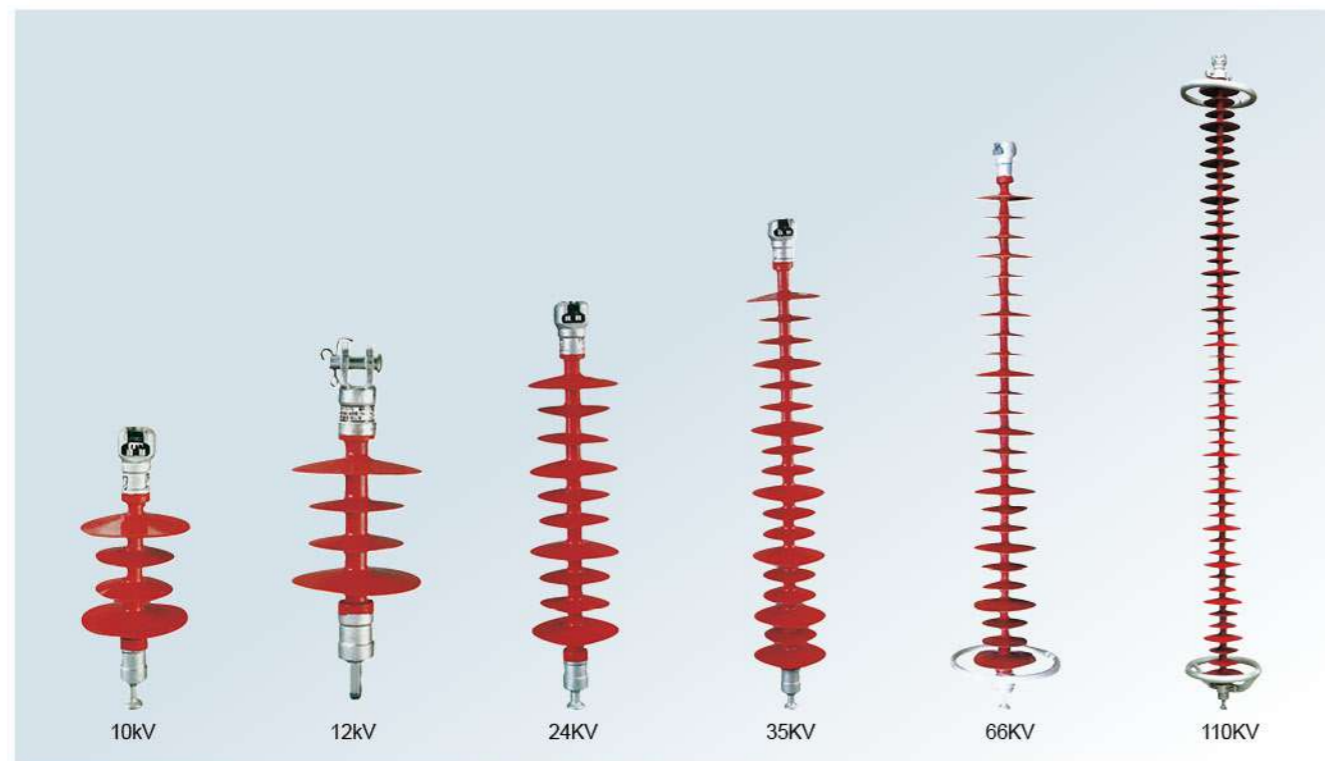


IR18

High Voltage Composite Insulator

◆ Specifications

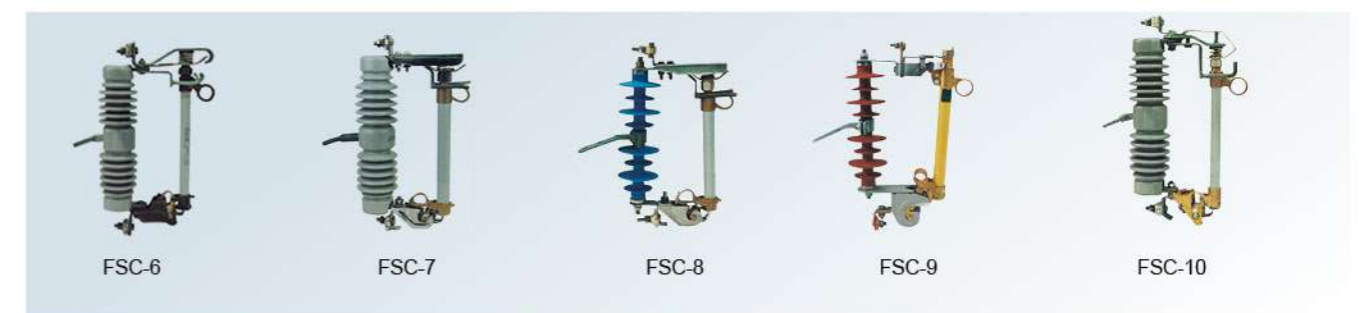
Type	Rated Voltage (KV)	Rated Mechanism Stretch Load (KN)	Struction Height (mm)	Min Arc Distance (mm)	Creepage Distance (mm)	Lightning Impulse Withstand BIL(KV)	Power Frequency Withstand(wet) BIL(KV)
FXBW4-10/70	10	70	350	180	400	95	45
FXBW4-12/70	12	70	350	180	400	95	45
FXBW4-24/70	24	70	550	370	850	185	95
FXBW4-24/100	24	100	570	370	850	185	95
FXBW4-35/170	35	70	650	450	1000	230	105
FXBW4-35/100	35	100	670	450	1000	230	105
FXBW4-66/70	66	70	920	700	1900	410	185
FXBW4-66/100	66	100	940	700	1900	410	185
FXBW4-110/70	110	70	1200	1000	3150	550	230
FXBW4-110/100	110	100	1240	1000	3150	550	230
FXBW4-220/100	220	100	2240	1900	6300	1000	230



Drop Out Fuse

◆ Specifications

Type	Rated Voltage(KV)	Rated Current(A)	Breaking Current(A)	Impulse Voltage(BIL)	Power Frequency Withstand Voltage	Leakage Distance (MM)	Weight (KG)	Dimensions
FSC-1	15	100	10000	110	40	250	7.3	38.5 × 34.5 × 10.5
FSC-1	15	200	12000	110	40	250	7.3	
FSC-2	15	100	10000	110	40	250	7.5	40 × 34.5 × 10.5
FSC-2	15	200	12000	110	40	250	7.5	
FSC-3	15	100	10000	110	40	250	7.3	38.5 × 34.5 × 10.5
FSC-3	15	200	12000	110	40	250	7.3	
FSC-4	11	100	6000	110	42	340	8	49 × 27 × 11.5
FSC-4	11	200	8000	110	42	340	8	
FSC-5	15	100	10000	110	45	380	3.5	48.5 × 35 × 10.5
FSC-5	15	200	12000	110	45	380	3.5	
FSC-6	15	100	10000	125	45	350	8.5	48.5 × 35 × 10.5
FSC-6	15	200	12000	125	45	350	8.5	
FSC-7	15	100	10000	125	45	350	8.5	48.5 × 35 × 10.5
FSC-7	15	200	12000	125	45	350	8.5	
FSC-8	15	100	10000	125	45	350	12	50 × 36 × 13
FSC-8	15	200	12000	125	45	350	12	
FSC-9	24	100	8000	150	65	530	12	50.5 × 36 × 17
FSC-9	24	200	10000	150	65	530	12	
FSC-10	33	100	6000	170	70	700	15	59 × 37 × 17
FSC-10	33	200	8000	170	70	700	15	



Drop Out Fuse

◆ Specifications

Type	Rated Voltage(KV)	Rated Current(A)	Breaking Current(A)	Impulse Voltage(BIL)	Power Frequency Withstand Voltage	Leakage Distance (MM)	Weight (KG)	Dimensions
FSC-11	36	100	6000	170	70	720	15.5	66 × 37 × 17
FSC-11	36	200	8000	170	70	720	15.5	
FSC-12	33	100	6000	170	70	820	28.5	70 × 43 × 17
FSC-12	33	200	8000	170	70	820	28.5	
FSC-13	24	100	8000	150	65	530	12	49 × 37 × 17
FSC-13	24	200	10000	150	65	530	12	
FSC-14	24	100	8000	150	65	530	12	48 × 37 × 17
FSC-14	24	200	10000	150	65	530	12	
FSC-15	15	100	10000	125	45	350	8.5	4834.510.5
FSC-15	15	200	12000	125	45	350	8.5	
FSC-16	33	100	6000	170	70	700	15	59 × 36 × 17
FSC-16	33	200	8000	170	70	700	15	
FSC-17	36	100	6000	180	75	850	17	65 × 37 × 17
FSC-17	36	200	8000	180	75	850	17	
FSC-18	24	100	8000	150	65	530	12	50.5 × 37 × 17
FSC-18	24	200	12000	150	65	530	12	
FSC-19	15	100	10000	125	45	350	8.5	49 × 36.5 × 10.5
FSC-19	15	200	12000	125	45	350	8.5	
FSC-20	11	100	6000	125	45	450	22	59 × 40 × 16
FSC-20	11	200	8000	125	45	450	22	



Lightning Arrester

◆ Specifications

Type	MOA Rated Voltage	MCOV	Current impulse Residual Voltage			2ms Rectangular Current Impulse Withstand	4/10 μ sHigh Current Impulse Withstand
			1/4 tis Lightning Current Impulse	8120 us lightning Current Impulse	30/60 μ s lightning Current Impulse		
	KV(rms)	KV(rms)	KV(rms)	KV(rms)	KV(rms)	KV(rms)	KV(rms)
YH5W-3	3	2.55	11.3	9	8.9	150	65
YH5W-6	6	5.1	22.6	18	16.8	150	65
YH 51N-9	9	7.65	33.7	27	23.8	150	65
YH5W-10	10	8.4	36	30	23	150	65
YH5W-11	11	9.4	40	33	30	150	65
YH5W-12	12	10.2	42.2	36	27	150	65
YH5W-15	15	12.7	51	45	38.5	150	65
YH5W-18	18	15.3	61.5	54	46.2	150	65
YH5W-21	21	17.0	71.8	63	54.2	150	65
YH5W-24	24	19.5	82	72	62	150	65
YH5W-27	17	22.0	92	81	69.8	150	65
YH5W-30	30	24.4	102	90	79	150	65
YH5W-33	33	27.5	112	99	86.7	150	65
YH5W-36	36	29.0	123	108	92.4	150	65
YH10W-3	3	2.55	11.3	9	8.9	250	100
YH10W-6	6	5.1	22.6	18	16.8	250	100
YH10W-9	9	7.65	33.7	27	23.8	250	100
YH10W-10	10	8.4	36	30	23	250	100
YH10W-11	11	9.4	40	33	30	250	100
YH10W-12	12	10.2	42.2	36	27	250	100
YH10W-15	15	12.7	51	45	38.5	250	100
YH10W-18	18	15.3	61.5	54	46.2	250	100
YH10W-21	21	17.0	71.8	63	54.2	250	100
YH10W-24	26	19.5	82	72	62	250	100
YH10W-27	27	22.0	92	81	69.8	250	100
YH10W-30	30	24.4	102	90	79	250	100
YH10W-33	33	27.5	112	99	86.7	250	100
YH10W-36	36	29.0	123	108	92.4	250	100



G PRODUCTS CONTENTS
SERIES

CEA ELECTRIC | www.ceaworld.com



Meter

- 01 DD862 DD28 Single Phase Watt-hour Meter
- 02 DDS999 Single Phase Electronic Kilowatt Hour Meter
- 03 DTS999 Three Phase Electronic Kilowatt Hour Meter
- 03 Multifunction Electric Parameter Meter
- 04 Thermocouple, Thermal Resistance
- 04 Fabricated thermocouple
- 04 Thermostat
- 04 MSQ Current Transformer
- 07 NSQ Current Transformer
- 07 RCT Current Transformer
- 08 CA Current Transformer
- 09 Digital Multimeter
- 11 Tester

DD862 DD28 Single Phase Watt-hour Meter

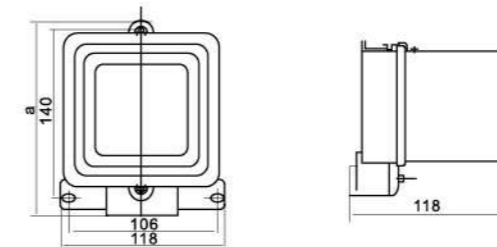
◆ Application

The series single phase meter is a kind of induction meter to measure the single phase current at the rated frequency of 50Hz, it is installed indoor. Ambient temperature: -10 °C to 50 °C , relative humidity: below 85%(25°C)

Specifications

Description	Single Phase Kilowatt-hour Meter	
Type	DD284	DD282(DD17)
Accuracy Class	2.0	2.0
Rated Voltage	230-240V	220V
Calibration	5-20A 10-40A 20-60A	5-10A 10-20A 20-40A 30-60A 40-80A
Connection	Direct Connection	Direct Connection

◆ Dimensions



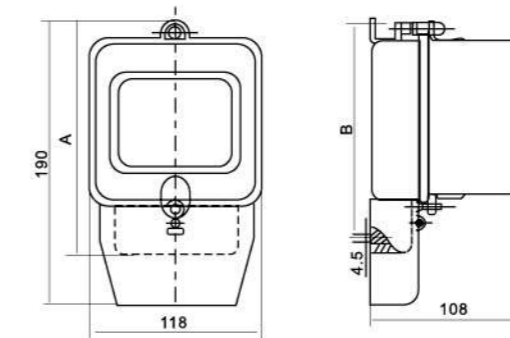
DD 28



DD 28T

Type	DD862-4	DD862-2	DD862-4
Accuracy	2.0	2.0	
Rated Voltage	220V	220V	
Rated Current	1.5(6),2.5(10),5(20),3(12), 10(40),15(60),20(80),30(100)	3(6)A,1.5(10)A	
Overload Capacity	400% 1b	200% 1b	
Starting Current	0.5% 1 b		
Insulation Function	Power frequency AC voltage 2 KV last minute, the impulse voltage is 6KV		

◆ Dimensions



DD 862-4



DD 862-4T

1 max > 10A	A=160mm	B=147mm
1 max ≤ 10A	A=154mm	B=142mm

DT8 DT862 Three Phase Watt-hour Meter

◆ Application

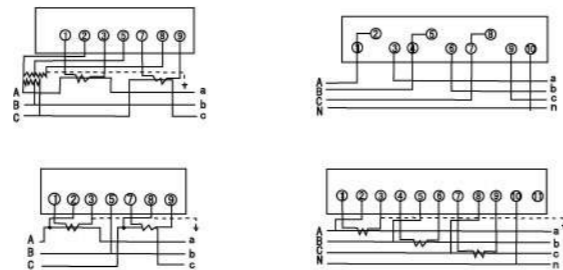
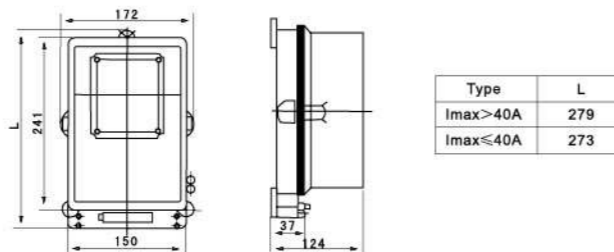
Three phase meter consists of two kinds: active and reactive, which is an induction one to measure three phase current at rated frequency (50Hz), and it is installed indoor.

Ambient temperature: -10°C ~ 50°C, first grade and second grade are exceptional,
Relative humidity: below 80%(23°C).

◆ Specifications

Description	Type	Accuracy Class	Rated Voltage	Calibration
Three Phase four Wire Active Energy Watt-hour Meter	DT862-4	2	3 × 380/220	3 × 5(20)A 10(40)A 10(60)A 20(80)A 20(80)A 20(60)A
	DT8	2	3 × 380/220	3 × 25(50)A 50(100)A 5A(C/T)
Three Phase Four Wire Active Energy Electronic Type Watt-hour Meter	DT862	2	3 × 220/380	3 × 1.5(6)3(6)5(20)10(40)15(60)20(80)30(100)
	DT864	1	3 × 220/380	1.5(6)3(6)
Three Phase Three Wire Active Energy Electronic Type Watt-hour Meter	DS862	2	3 × 380	3 × 1.5(6)3(6)5(20)10(40)15(60)20(80)30(100)
		2	3 × 100	3 × 1.5(6)3(6)
	DS864	2	3 × 380	3 × 1.5(6)3(6)
		2	3 × 100	3 × 1.5(6)3(6)
Three Phase Three Wire Reactive Electronic Type Watt-hour Meter	D × 862	3	3 × 380	3 × 1.5(6)3(6)
	D × 864	2	3 × 100	3 × 1.5(6)3(6)
Three Phase Four Wire Reactive Electronic Type Watt-hour Meter	D × 865	3	3 × 100	3 × 1.5(6)3(6)
	D × 863	2	3 × 100	3 × 1.5(6)3(6)

◆ Dimensions



DDS999 Single Phase Electronic Kilowatt Hour Meter

◆ Application

DDS999 series electronic single phase watt hour meter is a high technology product adopted advanced IC technology as well as SMT technology, both circuit design and components selections are up to various working environment to guarantee that power meter can operate steadily for a long time. The finished meter don't need to be adjusted so that the calibration cycle is long, it will extremely reduce the labor force of the electricity board for calibrating power meters. The features of the products are anti-theft, long life, high accuracy, high reliability, low power consumption, small volume, light weight, The meter is according to IEC1036-96 and GB/T 17215-2002 Standard.

◆ Specifications

Rated Voltage: 220V-240V
Accuracy: 1.0, 2.0
Basic Current: 1.5(6)A, 2.5(10)A, 5(20)A, 10(40)A, 45(60)A, 20(80)A, 5(30)A, 10(60)A
80ms ± 20ms



DTS999 Three Phase Electronic Kilowatt Hour Meter

◆ Application

DTS999 series electronic three phase watt hour meter is a high technology product adopted advanced IC technology as well as SMT technology, both circuit design and components selections are up to various working environment to guarantee that power meter can operate steadily for a long time. The finished meter don't need to be adjusted so that the calibration cycle is long, it will extremely reduce the labor force of the electricity board for calibrating power meters. The features of the products are anti-theft, long life, high accuracy, high reliability, low power consumption, small volume, light weight, The meter is according to IEC 1036-96 and GB/T 17215-2002 standard.



◆ Specifications

Description	Type	Accuracy (class)	Rated Voltage (V)	Rated Current(A)	Connection
Three Phase Four Wire Active Energy Electronic Type Watt-hour Meter	DTS999	1	3 × 380/220	3 × 1.5(6), 3 × 3(6)	CT
				3 × 5(20), 3 × 10(40) 3 × 1.5(60), 3 × 5(30) 3 × 10(60)	Direct

Multifunction Electric Parameter Meter

◆ Application



CE-48F-1P

The multifunction electric parameter meter has programmable function, measure function, display function, digital communication function. It widely use in the electric power station, electric automation, intelligent building etc, use MOUBUS communication protocol, LED display and long-distance RS-485 communication.

Measure electric parameter include: phase/line voltage(V), Current (I), Power (W, varW), Power factor (COS), Frequency (F). This meter can display any parameter of these.

It can programmable the measure range and display range.

With RS-485 according to the MODBUS-RTU protocol, it can connect to the PC or data collection system for long-distance monitor.

Size(mm) :120 × 120 × 90 96 × 96 × 90 80 × 80 × 90 72 × 72 × 90 96 × 48 × 110 48 × 48 × 90 96 × 96 × 100



CE-96F-1P

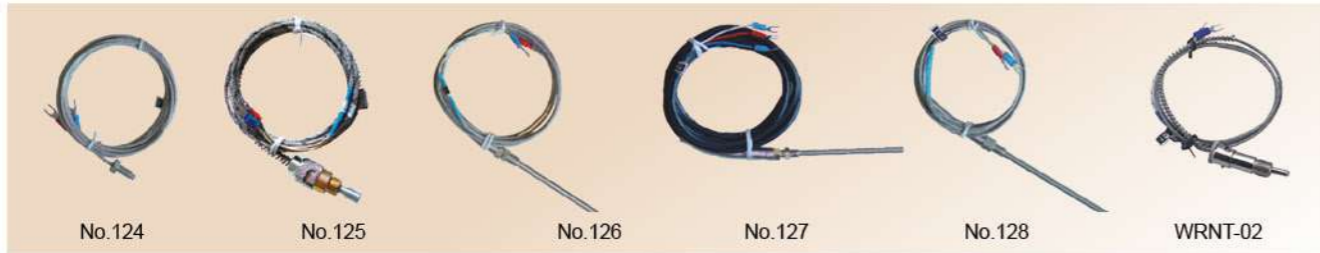


CE-96-1P

CE-12-2P

CE-12-3P

Thermocouple, Thermal Resistance



No.124

No.125

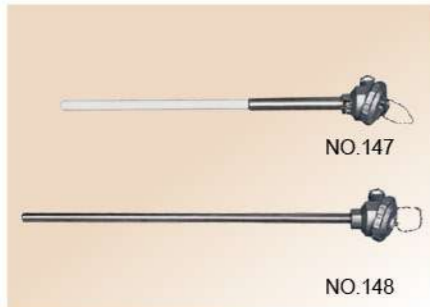
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No.127

No.128

WRNT-02

Fabricated thermocouple



NO.147

NO.148

Name	Type	Installation	Cablibration	Protected Pipe Material	Diameter of Pipe	Measure Range(°C)
Nickel hromium	WRN-120-130	No fixed mounting	K(Eu-2)	Stainless Steel	Φ 16	0-1100°C
Nickel silicon	WRN-121-131			1Cr18Ni9Ti	Φ 20	
	WRN-122			High alumina	Φ 16	0-1300°C
	WRN-123				Φ 20	
Nickel chromium-constantan	WRK-120-130	E(EA2)		Stainless Steel	Φ 16	0-800°C
	WRK-121-131			1Cr18Ni9Ti	Φ 20	
	WRK-122			High alumina	Φ 16	
	WRK-123				Φ 20	

Thermostat



No.216

No.217

No.218

MSQ Current Transformer

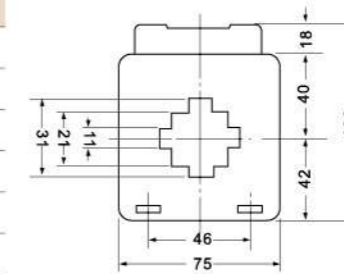
◆ Application

The series of current transformers can be applied to test, control, display and record the running of the electrical equipment, and to protect the equipment against the damage, in the AC circuit with the rated voltage value below 660V and the frequency of 50-60Hz. The product can be also applied to complete set of mine transformer The product conforms to IEC 60185.

◆ Specifications

Type	Rated Current(A) Primary/Secondary	Rated Load (VA)	Class	Max. Working Voltage(V)
MSQ-30	15/5	2.5	0.5	660
	20/5	2.5	0.5	660
	25/5	2.5	0.5	660
	30/5	2.5	0.5	660
	40/5	2.5	0.5	660
	50/5	2.5	0.5	660
	60/5	2.5	0.5	660
	70/5	2.5	0.5	660
	100/5	2.5	0.5	660
	150/5	2.5	0.5	660
	200/5	5	0.5	660
	250/5	5	0.5	660
300/5	5	0.5	660	

◆ Dimensions

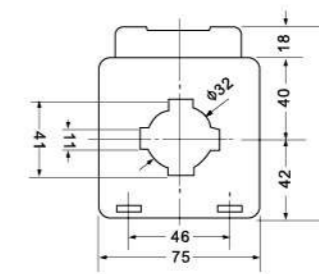


30/5A-300/5A



MSQ-30

Type	Rated Current(A) Primary/Secondary	Rated Load (VA)	Class	Max. Working Voltage(V)
MSQ-40	15/5	2.5	0.5	660
	20/5	2.5	0.5	660
	25/5-30/5	2.5	0.5	660
	40/5	2.5	0.5	660
	50/5	2.5	0.5	660
	60/5	2.5	0.5	660
	75/5	2.5	0.5	660
	100/5	2.5	0.5	660
	150/5	2.5	0.5	660
	200/5	5	0.5	660
	250/5	5	0.5	660
	300/5	5	0.5	660
	400/5	5	0.5	660
	500/5	10	0.5	660
600/5	10	0.5	660	
750/5	10	0.5	660	
800/5	10	0.5	660	



200/5A-600/5A



MSQ-40

MSQ Current Transformer

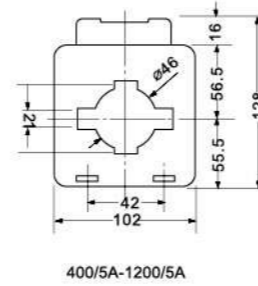


MSQ-60

Specifications

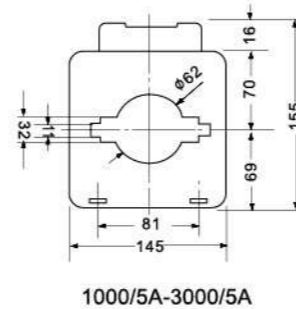
Type	Rated Current(A) Primary/Secondary	Rated Load (VA)	Class	Max. Working Voltage(V)
MSQ-60	150/5	2.5	0.5	660
	200/5	5	0.5	660
	250/5	5	0.5	660
	300/5	5	0.5	660
	400/5	5	0.5	660
	500/5	10	0.5	660
	600/5	10	0.5	660
	750/5	10	0.5	660
	800/5	10	0.5	660
	1000/5	20	0.5	660
	1200/5	20	0.5	660
	2000/5	40	0.5	660

Dimensions



MSQ-100

Type	Rated Current(A) Primary/Secondary	Rated Load (VA)	Class	Max. Working Voltage(V)	
MSQ-80	300/5	5	0.5	660	
	400/5	5	0.5	660	
	500/5	10	0.5	660	
	600/5	10	0.5	660	
	800/5	10	0.5	660	
	1000/5	15	0.5	660	
	1200/5	20	0.5	660	
	1500/5	20	0.5	660	
	2000/5	40	0.5	660	
	2500/5	40	0.5	660	
	MSQ-100	600/5	10	0.5	660
		800/5C	10	0.5	660
1000/5		15	0.5	660	
1200/5		20	0.5	660	
1500/5		20	0.5	660	
2000/5		40	0.5	660	
2500/5	40	0.5	660		
3000/5	40	0.5	660		



NSQ Current Transformer

Specifications

Maximum voltage: 0.66KV
 Frequency: 50-60Hz
 Rated load: 2.5VA, 5VA, 10VA, 15VA
 Accuracy Class: 0.5, 1.0, 3.0
 Short-time thermal current: I_{th}=60 × I_n
 Rated security coefficient: FS<5

Model	Primary/Secondary	Busbar Hole Dimension Rated Burden	Rated Burden (VA)	Class	Rated Voltage	Rated Frequency
NSQ-30	30/5A-300/5A	30 × 10mm	2.5-5	0.5/1.0	0.72	50/60Hz
NSQ-35	50/5A-400/5A	35 × 10mm	5	0.5/1.0	0.72	50/60Hz
NSQ-40	100/5A-600/5A	40 × 10mm	10	0.5/1.0	0.72	50/60Hz
NSQ-60	600/5A-1600/5A	60 × 10mm	15	0.5/1.0	0.72	50/60Hz
NSQ-100	800/5A-3000/5A	100 × 10mm	15	0.5/1.0	0.72	50/60Hz



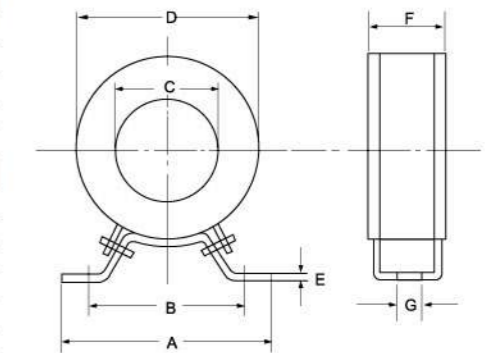
RCT Current Transformer

Specifications

Type	Ratio
RCT-32	30/5A 50/5A 60/5A 100/5A 150/5A /200/5A 250/5A 300/5A
RCT-60	300A/5 400A/5 500A/5 600A/5 800A/5/1000A/5 1200A/5
RCT-90c	1000A/5 1200A/5 1500A/5 1600A/5/2000A/5
RCT-110	2000A/5 2500A/5 3000A/5 4000A/5

Type	RCT-32	RCT-60	RCT-90	RCT-110
A	93	93	93	102
B	78	78	78	86
C	32	60	90	111
D	78	104	136	157
E	2	2	2	2
F	41	41	41	52
G	9	9	9	9

Dimensions



CA Current Transformer

Specifications

Type	Rated Current	Rated Capacity(VA)	Rated Voltage(V)
CA6 2/WS	5/5A-80/5A	5	720
	5/0.5A-5/5A	1.5	720
CA45-14	30/5A,40/5A	1	720
	50/5A	1.5	720
	60/5A,75/5A,80/5A,100/5A	2.5	720
CA62/20	30/5A-80/5A	1.5-2.5	720
CA62/30	50/5A-300/5A	1.5-5	720
CA62/40	200/5A-600/5A	5-10	720
CA74/40	150/5A-800/5A	2.5-20	720
CA74/50	250/5A-1000/5A	5-20	720
CA86/60	250/5A-1200/5A	5-30	720
CA104/80	600/5A-2000/5A	5-45	720
CA140/100	1000/5A-3200/5A	5-50	720

Dimensions



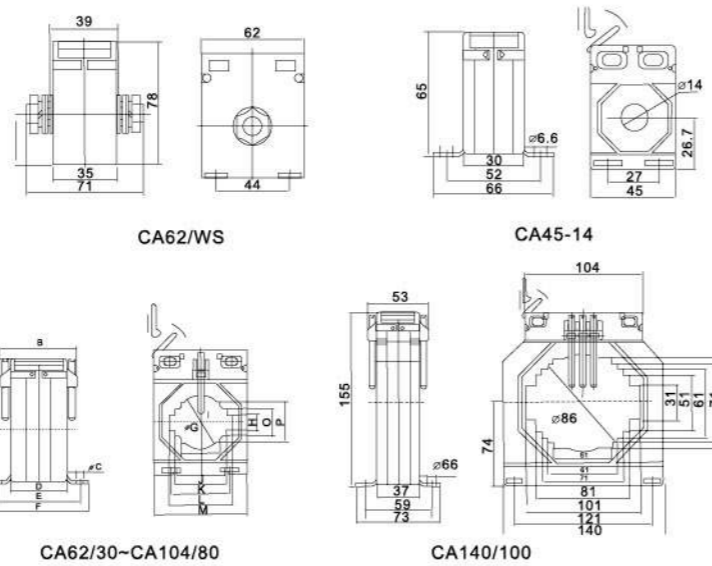
CA45/14



CA62/40



CA86/60



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P
CA62/20	78	36	6.6	36	55	71						21			
CA62/30	78	47	6.6	35	55	71	30.5	11	11	26	44	31	62	21	26
CA62/40	78	47	6.6	35	55	71	31	11	16	31	44	41	62	21	26
CA74/40	98	61	6.6	45	67	81	33	11	11	31	47	41	74	21	31
CA74/50	98	61	6.6	45	67	81	41	12	31	41	47	51	74	21	31
CA86/60	110	56	6.6	40	62	76	51	12	21	51	68	61	86	31	44
CA104/80	126	56	6.6	40	62	76	65	12	31	61	86	81	104	31	56

Digital Multimeter

DT9205(DT9201)



Diode: ✓
hFE: ✓
Power supply: 9V
Buzzer sound: ✓
Maximum Display: 1999
AC Current: 20mA/200mA/20A
DC Current: 2mA/20mA/200mA/20A
AC Voltage: 200mV/2V/20V/200V/750V
DC Voltage: 200mV/2V/20V/200V/1000V
Capacitance: 2nF/20F/200nF/2 μF/20 μF/200 μF
Resistance: 200 Ω /2K Ω /20K Ω /200K Ω /2M Ω /20M Ω /2000M Ω

DT830C(DT838)



Diode Test: ✓
Battery Test: ✓
Continuity Buzzer: ✓
Input Resistance: 1M Ω
Maximum Display: 1999
Transistor Test: ✓
AC Voltage: 200V/750V
Temperature: -40°C ~1000°C
DC Current: 2mA/20mA/200mA/10A
DC Voltage: 200mV/2V/20V/200V/1000V
Resistance: 200 Ω /2K Ω /20K Ω /200K Ω /2M Ω

MY99



hFE: ✓ Diode: ✓
Buzzer sound: ✓ Autoranging: ✓
Temperature: ✓
Maximum Display: 3999
DC Voltage: 400mV/4V/40V/400V/1000V
AC Voltage: 400mV/4V/40V/400V/750V
DC Current: 400 μA
F/4mA/40mA/200mA/10A
AC Current: 400 μA
A/4mA/40mA/200mA/10A
Resistance: 400 Ω /4K Ω /40K Ω /400K Ω /4M Ω /40M Ω
Frequency: 40Hz/400Hz/4000Hz/40KHz/400KHz/4MHz/30MHz

KT55



DC Voltage: 500V
AC Voltage: 500V
Resistance: 200K Ω
Maximum Display: 1999
AC Current: 200mA/20A/600A

DT303



Diode: ✓
Buzzer sound: ✓
DC Voltage: 600V
AC Voltage: 450V
Resistance: 2K Ω /2m Ω
Maximum Display: 1999

DT830B(DT831)



Diode Test: ✓
Battery Test: ✓
Input Resistance: 1M Ω
Maximum Display: 1999
Transistor Test: ✓
AC Voltage: 200V/750V
DC Voltage: 200mV/2V/20V/200V/1000V
DC Current: 200 μA
A/2mA/20mA/200mA/10A
Resistance: 200 Ω /2K Ω /20K Ω /200K Ω /2M Ω

Resistance Tester 1010T



This tester consists of a hand-driven high voltage DC generator and an internal magnet cross coil current ratio meter. The hand-driven generator is equipped with a centrifugal governor which enables the rotor to rotate with constant speed for containing steady output voltage. Cranking Speed: 120rpm Damping Time: within 4 second Effective measuring: 0-1000m Ω Rated Voltage/ Resistance: 1000V/1000M Ω

Earth Resistance Testers ZC-8



This model is specially used to measure the ground resistance of earth equipment speed of handle: 150r.p.m Range: 10/100/1000 Ω (ZC8-1) 1/10/100 Ω (ZC8-2)

DY2101



Data hold Transistor test
Auto power off Continuity buzzer
Low battery warning
Max displays: 1999
AC Voltage: 200mV/2/20/200/750V
DC Current: 20 μA /20m/200m/20A
AC Current: 200 μA /20m/200m/200A
Voltage test input impedance: 10M Ω
DC Voltage: 200mV/2/20/200/1000V
Capacitance: 2n/20n/200n/2 μ /200 μ F
Resistance: 200 Ω /2K Ω /20K Ω /200K Ω /20M Ω /200M Ω

266



Buzzer sound: ✓
DC Voltage: 1000V
AC Voltage: 750V
Insulation test: 200M Ω
Resistance: 200 Ω /20K Ω
Maximum Display: 1999
AC Current: 200A/1000A
Big jaws can measure conductor which diameter up to approx. 60mm max
Data Hold & overload protection function.

Digital Multimeter

266C



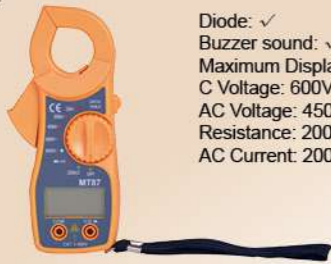
Maximum Display 1999
 Temperature °C : 0 °C ~750 °C
 Resistance: 200 Ω /20K Ω/2M Ω
 Insulation test: 20M Ω/2000M Ω
 AC Voltage: 200V/750V
 AC Current: 20A/200A/1000A
 DC Voltage: 200mV/2V/20V/200V/1000V

UA6243L



Capacitance:
 2nF/20nF/200nF/2uF/20uF/200uF
 Inductance: 2mH/20mH/200mH/2H/20H
 Power Supply: 9V
 Maximum Display: 1999

MT87



Diode: ✓
 Buzzer sound: ✓
 Maximum Display: 1999 A
 C Voltage: 600V
 AC Voltage: 450V
 Resistance: 200K Ω
 AC Current: 200A/20A/600A

Photo Tachometer



DT2234A/2234B/2234C
 Measuring Range:
 contacttach:5-99.999rpm
 Resolution:
 Battery:4 × 1.5VAA
 Contact tach:
 0.1rpm(<1,000RPM)1RPM(≥ 1,000RPM)
 Detecting distance:
 5cm-50cm (DT2234A+2234B)(LED)
 5cm-600cm (DT2234C)(LASER)

GT201



Diode: ✓ AC voltage: 750V
 DC voltage: 1000V
 Resistance: 200/2K Ω
 Maximum Display: 1999
 AC Current: 220/200/1000A
 Data Hold function.
 Backlight automatically shut off in case of prolonged time, thus helpful to read in the dark place.
 All measuring ranges are of overload protection.
 Continuity check with buzzer sound.
 Big jaws can measure conductor which diameter up to approx.48mm max.

Infrared Thermometer AR350



°C /F Selection Data hold function
 auto power shut off
 Low battery Indication
 Data store/recall function
 Back light display selection
 Repeatability: ± 1% or ± 1°C Laser target pointer selection
 Emissivity: 0.95 Accuracy: ± 2%or 2°C
 Distance spot Ratio :12:1
 GENERAL FEATURES & SPECIFICATIONS
 Temperature Range:-50°C -350°C , -58°F-662°F
 Response time & wavelength: 500ms & (8-14) um
 Resolution: 0.1°C or 0.1°F(<1000°C)
 1°C or 1°F(≥ 1000°C)

YX36TRN



hFE: ✓
 Fuse protection
 dB: -10dB-+22dB
 L1: 150u /15m/150mA
 AC Voltage: 10/50/250/1000V
 Resistance: × 1/ × 10/ × 1K/ × 10K Ω
 DC Current: 50 Jr /2.5m/25m/250A
 DC Voltage: 0.1/0.5/2.5/10/50/250/1000V
 A large and bright meter with a scale length of 80mm and its sensitivity of 44 b A at full scale
 Series capacitor terminal(OUTPUT)blocks DC
 to enable measurement of onlyAC components.

Earth Resistance Testers ZC-29B



Temperature:0-+120°C
 Speed of handle :150r.p.m
 Range:10/100/1000Ω (ZC29NB-1)
 1/10/100/Ω (ZC29B-2)
 This model is specially used to measure the ground resistance of earth equipment

YX360TRD



hFE: ✓
 L1:1.5 μ /150 μ /15m/150mA
 Capacitance: 0.1 μ F-10 μ F
 AC Voltage: 10/50/250/1000V
 Resistance: × 1/ × 10/ × 100 K Ω
 DC Current: 50 t r /2.5m/25m/500mA
 DC Voltage: 0.1/0.5/2.5/10/50/250/1000V
 This instrument is portable multimeter designated for measurement of weak current circuits.
 Panel face protection Cover,which serves as a stand,
 Overload protection.

Battery Tester FY54



MODEL
 FY54
 FY54A
 TESTED VOLTAGE
 2V, 6V, 12V,
 6V, 12V,
 TESTED CAPACITY
 6~120 AMP.SHOUR
 32~195AMP.SHOUR

Tester

ITEM NO: DCY-17151

Length:3.5x140mm
 Rated voltage range:100-500V
 Qty of Package: 500pcs
 G.W./N.W.: 13/12kgs
 Carton Size: 59x22x32cm



ITEM NO: DCY-202

Length:3.5x190mm
 Rated voltage range:100-500V
 Qty of Package: 600kgs
 G.W./N.W.: 22/21kgs
 Carton Size: 44x24x24cm



ITEM NO: DCY-1800B

Length:3.5x140mm
 Rated voltage range:100-500V
 Qty of Package: 1200pcs
 G.W./N.W.: 22/21kgs
 Carton Size: 51x17x44cm



ITEM NO: DCY-305

Length:4.0x190mm
 Rated voltage range:100-500V
 Qty of Package: 500pcs
 G.W./N.W.: 16/17kgs
 Carton Size: 50x28x30cm



ITEM NO: DCY-308

Length:4.0x190mm
 Rated voltage range:100-500V
 Qty of Package: 432pcs
 G.W./N.W.: 22/21kgs
 Carton Size: 38x21x34cm



ITEM NO: AN-18

Length:3.5x140mm
 Rated voltage range:100-500V
 Qty of Package: 250pcs
 G.W./N.W.: 14/13kgs
 Carton Size: 59x23x46cm



ITEM NO: DCY-201

Length:4.0x190mm
 Rated voltage range:100-500V
 Qty of Package: 600kgs
 G.W./N.W.: 18/17kgs
 Carton Size: 44x24x24cm



ITEM NO: AN-48

Length:3.0x140mm
 Rated voltage range:100-500V
 Qty of Package: 200pcs
 G.W./N.W.: 12/11kgs
 Carton Size: 59x23x46cm



Tester

ITEM NO: AN-5
 Length: 2.0x185mm
 Rated voltage range: 100-500V
 Qty of Package: 200pcs
 G.W./N.W.: 22/20kgs
 Carton Size: 72x29x57cm



ITEM NO: UD02
 Length: 19x26x148mm
 Rated voltage range: 12-500V
 Qty of Package: 200pcs
 G.W./N.W.: 13/12kgs
 Carton Size: 55x27x46cm



ITEM NO: AN-765
 Length: 3.0x140mm
 Rated voltage range: 12-220V
 Qty of Package: 200pcs
 G.W./N.W.: 11/10kgs
 Carton Size: 59x23x46cm



ITEM NO: UD12A
 Length: 19x26x148mm
 Rated voltage range: 12-500V
 Qty of Package: 200pcs
 G.W./N.W.: 13/12kgs
 Carton Size: 55x27x46cm



ITEM NO: AN-28
 Length: 3.0x130mm
 Rated voltage range: 12-220V
 Qty of Package: 500pcs
 G.W./N.W.: 14/13kgs
 Carton Size: 59x23x46cm



ITEM NO: DCY-853
 Length: 3.5x160mm
 Rated voltage range: 12-220V
 Qty of Package: 240pcs
 G.W./N.W.: 18/17kgs
 Carton Size: 44x46x41cm



ITEM NO: AN-12
 Length: 3.0x130mm
 Rated voltage range: 12-500V
 Qty of Package: 200pcs
 G.W./N.W.: 13/12kgs
 Carton Size: 55x27x46cm



ITEM NO: DCY-8736
 Length: 4.0x190mm
 Rated voltage range: 12-220V
 Qty of Package: 144pcs
 G.W./N.W.: 10/9kgs
 Carton Size: 70x28x35cm



H PRODUCTS CONTENTS
SERIES

| CEA ELECTRIC | www.ceaworld.com |



Switch

01 SFL1 Changeover Switch	17 WL Stroke switch
02 CEK2 Isolator	17 CE Stroke switch
02 CEK3 Enclosed Switch Disconnectors	18 CE-7 Micro switch
03 CEK5 Cam Starter	18 CE19 Stroke switch
04 Changeover Switch	19 CEK1 Stroke switch
07 Float Switch	19 CEK3 Stroke switch
08 Electronic Pressure Control	20 CE-3 Micro switch
08 Photocell Sensor	20 CW2 Stroke switch
10 Weather Protected Wall Switch and Socket	21 CE Micro switch
11 Wall Switch and Socket	22 CE-2 Stroke switch
13 Floor Socket	22 CE-K Stroke switch
14 Desktop Socket	23 LSA Stroke switch
15 Wireless Digital Door Chime	23 V-15 Micro switch
16 CE-8 Stroke switch	24 Pedal Switch
16 CE-9 Stroke switch	

CFL1 Changeover Switch

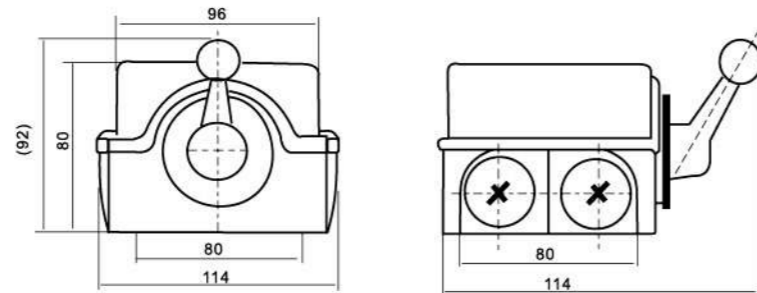
◆ Application

CFL1 Changeover Switch is used to start, stop, forward or backward directly three-phase asynchronous electric motor with AC 50Hz, voltage 230-690V, AC current up to 100A. It can also be used for changeover from one kind of circuit to another.

◆ Specifications

Type	Heated Current (Ith)A	Rated Insulated Voltage (Ue) V			Rated Voltage (V)	Rated Current (A) AC-21	Rated (A) Current AC-23			Rated Controlled Power (KVV)
		690	230	400			8	5	3	
CFL1-16	16	690	230	400	690	16	8	5	3	
CFL1-25	25	690	230	400	690	25	12	7	5.5	
CFL1-32	32	690	230	400	690	32	16	9	7.5	
CFL1-40	40	690	230	400	690	40	22	12	11	
CFL1-63	63	690	230	400	690	63	40	22	18.5	
CFL1-100	100	690	230	400	690	100	62	32	30	

◆ Dimensions



CFL1-16A-32A



CFL1-16



CFL1-25



CFL1-32



CFL1-63



CFL1-100

CEK2 Isolator

◆ Application

This product is mainly used to start, stop, forward or backward directly three-phase asynchronous electric motor with AC 50Hz, voltage up to 500V and capacity up to 7.5KW. It can also be used for changeover from one kind of circuit to the other.

◆ Specifications

Type	Mark	Rated Current (A)	Rated Power (kw)	Electrical Life (times)	Mechanical Life (times)	Frequency of Operation (per hr)	Applications	Position of Level
CEK2-20A 2/4	I-O	20	7.5	100000	250000	200	ON-OFF switching Forward & reverse 0-60 for 3 phase 2 wire	0-60
CEK2-32A 2/4	I-O	32	11					
CEK2-40A 2/4	I-O	40	15	80000	200000	180		
CEK2-63A 2/4	I-O	63	30					



CEK3 Enclosed Switch Disconnectors

◆ Specifications

Type	Pole No.	Ie AC 22A			Cable Entries	Terminals	Degree of Protection
		400V	500V	690V			
CEK3-325N CEK3-325M	3	25	25	16	2 × M25/ 2 × M25	10	IP54
CEK3-440N CEK3-440M	4	40	40	25	2 × M32/2 × M32 +1 × M16	10	IP54
CEK3-363N CEK3-363M	3	63	63	63	1 × M32/2 × M32 +1 × M16	16	IP65
CEK3-380N CEK3-380M	3	-	80	80	2 × M40/2 × M40 +1 × M16	35	IP65
CEK3-3100N CEK3-3100M	3	-	100	100	2 × M40/2 × M40 +1 × M16	70	IP65



CEK3-325N



CEK3-340N

CEK5 Cam Starter

◆ Application

CEK5 cam starter is mainly used to start, stop, forward or backward directly three-phase asynchronous electric motor with AC 50Hz, voltage up to 500V and capacity up to 7.5KW. It can also be used for changeover from one kind of circuit to another.

◆ Specifications

Type	Mark	Rated Current (A)	Motor Control Capacity (hp)	Electrical Life (times)	Mechanical Life (times)	Frequency of Operation (per Hr)	Applications	Position of Level					
CEK5-15A	I-O	15	5.5	100000	250000	200	ON-OFF Switching	0-60					
CEK5-30A		30	10										
CEK5-15N	I-O-I	15	5.5				80000	200000	180	Forward & Reverse	60-0-60		
CEK5-30N		30	10										
CEK5-15P/3	I-O-II	15	5.5							63	22	For 3 phase 2 wire	60-0-60
CEK5-30P/3		30	10										
CEK5-63A	I-O	63	22				80000	200000	180	ON-OFF Switching	0-60		
CEK5-100A		100	30										
CEK5-63N	I-O-I	63	22							63	22	Forward & reverse	60-0-60
CEK5-100N		100	30										
CEK5-63P/4	I-O-II	63	22	63	22	For 3 phase 2 wire				60-0-60			
CEK5-100P/4		100	30										



Changeover Switch

◆ Application

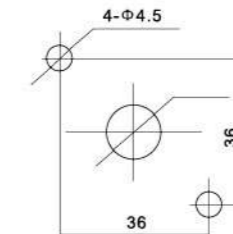
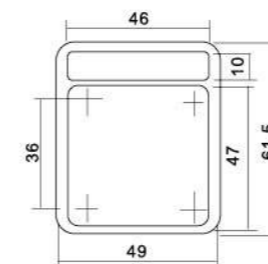
FW98 series changeover switch is used in the circuits of AC 50/60Hz, rated voltage up to 440V, DC voltage up to 240V, rated current up to 20A, to not frequently switch on/off circuit, transfer the control circuit and electric meters, also it can directly control small capacity three phases squirrel caged asynchronous motor or used for master control or electric meters

◆ Specifications

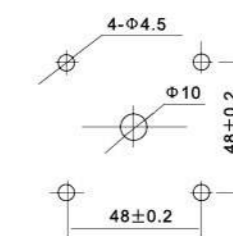
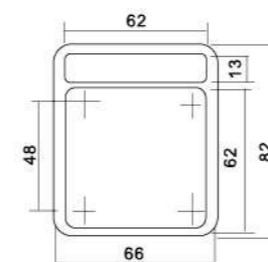
Type/Spec	Ith A	Ui V	Ue V	AC-21A	AC-22A	AC-23A		AC-2		AC-3		AC-4		AC-15	DC-13	
				Ie(A)	Ie(A)	Ie(A)	P (kW)	Ie(A)	P (kW)	Ie(A)	P (kW)	Ie(A)	P (kW)	Ie(A)	Ie(A)	
FW98	20	660	440	20	20	15	7.5	15	7.5	11	5.5	3.5	1.5	4		
			240											5	1	
			120													5
			440	25	25	22	11	22	11	15	7.5	6.5	3	5		



◆ Outline and mounting size of FW98-16



◆ Outline and mounting size of FW98-20



Changeover Switch

◆ Application

FW26 series changeover switch is used in the circuits of AC 50Hz, rated voltage up to 690V, DC voltage up to 240V, rated current up to 100A, to not frequently switch on/off circuit, transfer and control circuits, also it can directly control small capacity motor or be used for master control or electric meters. The switch is used widely in circuit control, test equipment, switch for motor, master control, welding machine and etc.

Advantages: small size, multifunction, compact structure, high quality material, good in sulation, agile operation, reliability, safety, good appearance. FW26-20, FW26-25, FW26-32, FW26-63, provide function of finger protection.

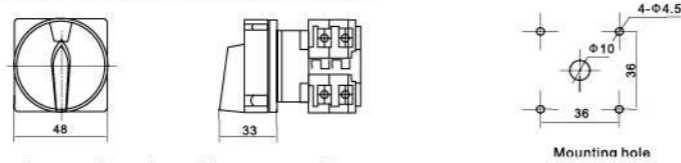
◆ Specifications

Model	FW26-10			FW26-20			FW26-25		
Rated Insulation Voltage Ui (V)	690V								
Rated Thermal Current Lth (A)	10			20			25		
Rated Operating Voltage Ue (V)	220	380	500	220	380	500	220	380	500
AC-21AAC-22A(A)	10			20			20		
AC-2 3P (KW)	2	3.5	7	4	7.5	10	5.5	11	13
AC-3 3P/1P (KW)	1/0.5	3.5/1	2.5	3/2.2	5.5/3	5.5	4/3	7.5/3.7	7.5
AC-4 3P/1P (KW)	0.25/0.35	1/1.5	1	0.55/0.75	1.5/1.5	1.5	1.5/1.1	3/2.2	2.2
AC-23 3P/1P (KW)	2.5/1	3.5/2	4.5	3.7/2.5	7.5/3.7	7.5	5.5/3	11/5.5	11
AC-15 (A)	3	2	-	5	4	-	8	5	
DC-13 (A)				1					
Mechanical Life	60X10 ⁴ ops, operation frequency:120ops/hour								
Electrical Life AC-15	20X10 ⁴ ops, operation frequency:300ops/hour								
Electrical Life at DC-13	6X10 ⁴ ops, operation frequency:300ops/hour								

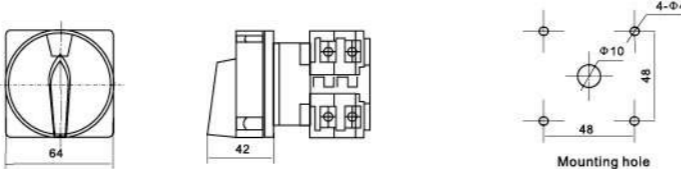
Model	FW26-32			FW26-63			FW26-125		FW26-160	
Rated Insulation Voltage Ui (V)	690V									
Rated Thermal Current Lth (A)	32			63			125		160	
Rated Operating Voltage Ue (V)	220	380	500	220	380	500	220	380	220	380
AC-21AAC-22A(A)	32			63			125		160	
AC-2 3P (KW)	7.5	15	18.5	18.5	30	40	30	45	37	55
AC-3 3P/1P (KW)	5.5/4	11/5.5	11	11/6	18.5/11	18.5	15/7.5	30/13	22/11	37/18.5
AC-4 3P/1P (KW)	2.5/1.5	5.5/3	5.5	5.5/2.4	7.5/4	7.5	6/3	11/5.5	10/4	15/7.5
AC-23 3P/1P (KW)	7.5/4	15/7.5	15	15/10	30/18.5	45	30/15	45/22	37/22	75/37
AC-15 (A)	14	6								
DC-13 (A)	1.5			11						
Mechanical Life	60X10 ⁴ ops, operation frequency:120ops/hour									
Electrical Life AC-15	20X10 ⁴ ops, operation frequency:300ops/hour									
Electrical Life at DC-13	6X10 ⁴ ops, operation frequency 300ops/hour									

◆ Dimensions

1. Outline and mounting size of small panel type



2. Outline and mounting size of large panel type



Changeover Switch

◆ Application

FD11 load break switch is suitable for air-conditioning system and pump system, used as main switch for insulation and safely isolation.

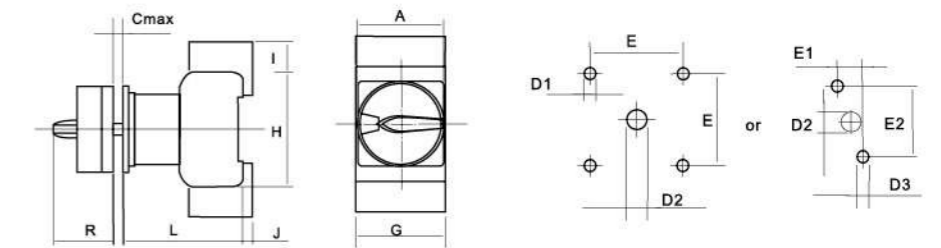
It is manual isolating switch, meet with isolating requirement, FD11 control switch is used as ON/OFF control, urgent stop, complies with DIN VDE 0113, IEC60947-3/DIN VDE 0660(EN60947-3) standards.

◆ Specifications

Model	Rated Insulation Voltage Ui(V)	Rated Thermal Current Ith (A)	AC-201A AC-21A (A)	AC-22A	Rated Operating Voltage Ue (V)	AC-3(KW)	AC-23 (KW)
FD11-25	690V	25A	25A	20A	220	3	4
					380	5.5	5.5
					500	7.5	7.5
FD11-32	690V	32A	32A	32A	200	4	5.5
					380	7.5	11
					500	7.5	11
FD11-40	690V	40A	40A	40A	220	7.5	7.5
					380	11	15
					500	15	18.5
FD11-63	690V	63A	63A	63A	220	11	11
					380	18.5	22
					500	22	30
FD11-80	690V	80A	80A	80A	220	15	18.5
					380	22	30
					500	30	37
FD11-100	690V	100A	100A	100A	220	18.5	22
					380	30	37
					500	37	45



◆ Dimensions



Mounting hole

Mode	E	E1	E2	D1	D2	D3	A	L	H	I	G	J	R	Cmax
FD11-25	48	12.2	30	5	10-15	3.5	64	53.8	54	20	42	6	40.1	4
FD11-32	48	12.2	30	5	10-15	3.5	64	53.8	54	20	42	6	40.1	4
FD11-40	48	48/12.2/14	30/37	5	10-15	3.5/3.4	64	60.5	64	17	50	5.5	40.1	4
FD11-63	48	48/12.2/14	30/37	5	10-15	3.5/3.4	64	60.5	64	17	50	5.5	40.1	4
FD11-80	48	14	37	5	10-15	4.5	64	70.6	80	26	70	5.5	40.1	4
FD11-100	48	14	37	5	10-15	4.5	64	70.6	80	26	70	5.5	40.1	4

Float Switch

◆ Application

Rated Voltage(Current):10(8A)250V-10(4A)380V
 Ambient Temperature:0-80°C
 Frequency:50Hz/60Hz
 The length for the wire:1 m,2m,3m,4m,5m,10m,also available on request.

Control Range: ≥ 0.2m
 Electrical Life: ≥ 100,000times
 Mechanical Life: ≥ 50,000 times



◆ Application

Rated Voltage:220V
 Frequency:50Hz/60Hz

Ambient Temperature:0-80°C
 Max.power:1.5KW



Electronic Pressure Control



EPC102

Model:EPC102
 Rated voltage/frequency:
 230V AC,50Hz/110V AC,60Hz
 Max.current:10A
 Starting pressure:1.5bar ,2.2 bar
 Max.working pressure:10bar



EPC108

Model:EPC108
 Rated voltage/frequency:
 230V AC,50Hz/110V AC,60Hz
 Max.current:10A
 Starting pressure:1.5bar ,2.2 bar
 Max.working pressure:10bar
 Max.working temperature:60°C



EPC118

Model:EPC102
 Rated voltage/frequency:
 230V AC,50Hz/110V AC,60Hz
 Max.cu rrent:10A
 Starting pressure:
 1.2bar,1.5bar ,2.2 bar
 Max.working pressure:10bar
 Max.working temperature:60°C



EPC109A

EPC109B

Model:EPC109
 Rated voltage/frequency:
 230V AC,50Hz/110V AC,60Hz
 Max.cu rrent:10A
 Starting pressure:1.5bar ,2.2 bar
 Max.working pressure:10bar
 Max.working temperature:60°C

Photocell Sensor



PC-AS15

BF2405EL

BF2410C

AS10-2210E

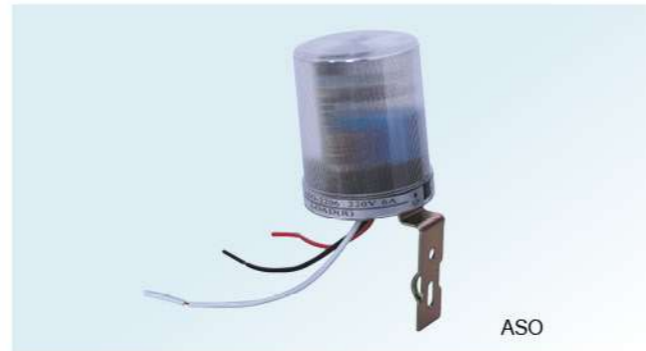
PC-E

PC-BF

Photocell Sensor



AS



ASO

◆ Application

Street light, factory, garden, harbor, airport, Farm, Park, Any other place.

◆ Features

Compact, Reliable lighting controls consist of hermetically sealed CDS photocell and snap action bimetallic relay to insure electrical switching.

◆ Electrical connection

Used for mercury or fluorescent lamp LED lighting, connect the control unit in the primary side of stabilizer, connect red-lead wire first for safety,

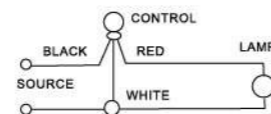
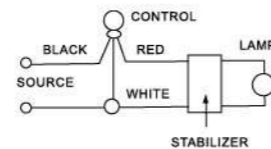
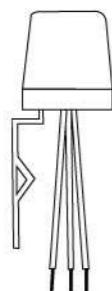
◆ Insulation

For incandescent lamp, connect black-load wire and white-lead(common)to power source, red-lead wire and white lead to lamp load.

Type	Rating
AS-2203	AC 220V 3A
AS-2206	AC 220V 6A
AS-22010	AC 220V 10A
AS-11003	AC 110V 3A
AS-11006	AC 110V 6A
AS-11010	AC 110V 10A

Type	Rating
ASO-2203	AC 220V 3A
ASO-2206	AC 220V 6A
ASO-22010	AC 220V 10A
ASO-22015	AC 220V 15A
ASO-22020	AC 220V 20A
ASO-11003	AC 110V 3A
ASO-11006	AC 110V 6A
ASO-11010	AC 110V 10A
ASO-11015	AC 110V 10A
ASO-11020	AC 110V 20A

Dimensions



Weather Protected Wall Switch and Socket



CEW-1GS
1 Gang Switch
13A-250V~
IP55 Surface
mount



CEW-1GBS
1 Gang 2 Way Switch
13A-250V~
P55 Surface
mount



CEA-SR2
1 Gang Switch Socket
13A-250V~
IP55 Surface
mount



CEW-2GS
2 Gang Switch
13A-250V~
IP55 Surface
mount



CEW-2GBS
2 Gang 2 Way Switch
13A-250V~
IP55 Surface
mount



CEW-2S
2 Socket
13A-250V~
IP55 Surface
mount



CEW-3GS
3Gang Switch
13A-250V~
IP55 Surface
mount



CEW-3GBS
3 Gang 2 Way Switch
13A-250V~
IP55 CE Surface
Mount



CEW-2RS
2 Gang Switch Socket
13A-250V~
IP55 CE Surface
Mount



CEW-4GS
4 Gang switch
13A-250V~
IP55 CE Surface
Mount



CEW-4GBS
4 Gang 2 Way Switch
13A-250V~
IP55 CE Surface
Mount



CEW-1GB
1 Gang bell push switch
16A-250V~
IP55 CE Surface
Mount



CEW-SR
Socket
16A-250V~
IP55 CE Surface
Mount



CEW-S
Socket
16A-250V~
IP55 CE Surface
Mount



CEW-2SR
Socket
13A-250V~
IP55 CE Surface
Mount



CEW-SSR
Switch socket
16A-250V~
IP55 CE Surface
Mount

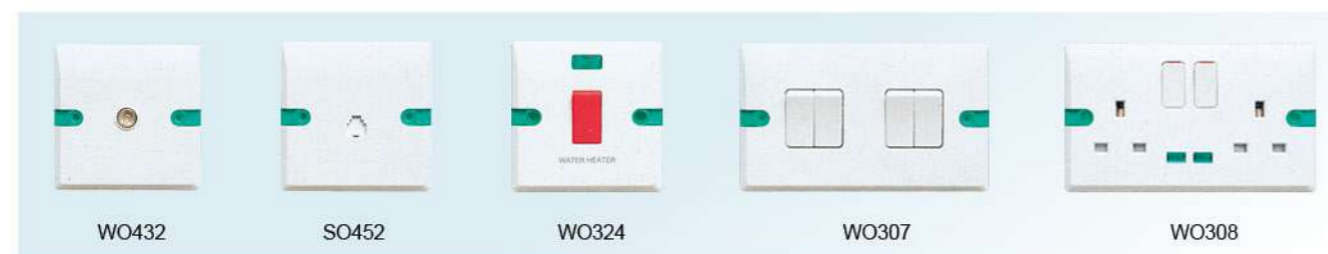


CEW-SS
Socket
13A-250V~
IP55 CE Surface
Mount



CEW-2SS
Switch socket
13A-250V~
IP55 CE Surface
Mount

Wall Switch and Socket



Wall Switch and Socket



Floor Socket



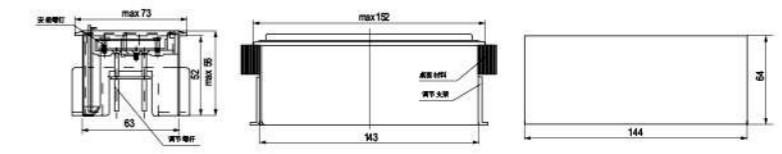
Desktop Socket



◆ Product Description

- POP-UP TYPE: HIDDEN;
- MATERIAL: ZAMAK OR BRASS ALLOY;

◆ Mounting Dimensions



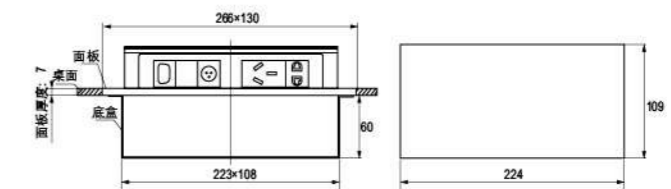
Opening Dimensions



◆ Product Description

- POP-UP TYPE: DAMPER;
- MATERIAL: ZAMAK OR BRASS ALLOY;
- METAL BOX DIMENSIONS: 223 × 108 × 60 mm

◆ Mounting Dimensions



Opening Dimensions



Wireless Digital Door Chime



Range up to (open air),R&TTE 60 meters,FCC 30 meters,
 Sounds Ding Dong(Double),Soft Dingdong,Ding Dong(single),Melody,Salamalaikum etc.
 Frequency:433.92M Hz,418M Hz
 The wireless system makes installation easy and brings no effect on your interior decoration.
 The strong digital anti-interference prevents interference between users and misringing
 Easy to install (No wiring or DC power required)
 Digital coded radio signal to prevent false triggering
 Designed to the highest standards to meet requirements of radio telecommunications agencies
 around the world
 There are several remotes to be chosen.



NO. 6898-89 Door/window Entry Alarm

Easy installation
 105 db instant alarm
 No wiring required
 Secure door & windows
 Decline unauthorized entry
 Low power standby consumption

CE-8 Stroke switch



CE-9 Stroke switch



WL Stroke switch



WLCA2-2 WLCA12-2 WLCA32-41 WLCL WLD WLD1



WLD2 WLD3 WLNJ WLNJ-30 WLNJ-2 WLNJ-S2

CE Stroke switch



CE-5000 CE-5030 CE-5050 CE-5100



CE-5300 CE-5330 CE-5200 CE-5220

CE-7 Micro switch



CE-7120 CE-7121 CE-7124 CE-7310



CE-7311 CE-7312 CE-7140 CE-7141



CE-7144 CE-7100 CE-7110 CE-7166

CE19 Stroke switch



CE19-001 CE19-111 CE19-111B CE19-121



CE19-121B CE19-131 CE19-212 CE19-232

CEK1 Stroke switch



CEK3 Stroke switch



CE-3 Micro switch



CW2 Stroke switch



CE Micro switch



CE-2 Stroke switch



CE-K Stroke switch



LSA Stroke switch



V-15 Micro switch



Pedal Switch



PRODUCTS CONTENTS

SERIES

| CEA ELECTRIC | www.ceaworld.com |



Tool

- 01 Ratchet Crimping Plier (European Style)
- 05 Ratchet Terminal Crimping Tools
- 07 Copper Tube Terminal Crimping Tool
- 09 Mini Combination Tools
- 10 Crimping Tool Kit
- 11 Hydraulic crimping tools
- 15 Hydraulic Tools
- 17 DC Fan
- 18 AC Fan

Ratchet Crimping Plier (European Style)

HS-30J / HS-30JC / LY-03C

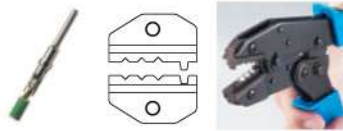
- The components of the ratchet crimping tools are made of special steel.
- Designed according to human factors engineering, it can save 50% energy when crimping.
- Precise crimping die sets and integral lock with self releasing mechanism ensure high-quality crimping effect after crimping repeatedly.
- Accurate adjustment before delivery.
- Due to best handle grasping position, light and compact structure and handle design ensure perfect crimping effect.



Tool Specifications	HS-30J	HS-30JC	LY-03C
Capacity	0.5-6.0 mm ²	1.0-6.0 mm ²	1.0-6.0 mm ²
AWG	22-10 AWG	20-10 AWG	20-10 AWG
Length	230 mm	230 mm	230 mm
Weight	0.6Kg	0.6Kg	0.6Kg

HS-1

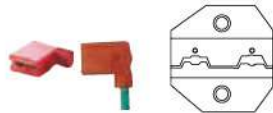
Range of Application:
For crimping the terminal of
aviation plug-in



Tool Specifications	
Capacity	1.0-2.5 mm ²
AWG	20-14 AWG
Length	230 mm
Weight	0.6Kg

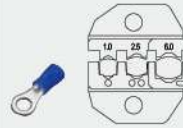
HS-07FL

Range of Application:
For 0.5-2.5mm² Flag Type
female receptacles Insulated
Terminals

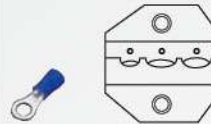


Tool Specifications	
Capacity	0.5-2.5 mm ²
AWG	20-14 AWG
Length	230 mm
Weight	0.6Kg

HS-30J

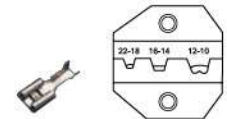


LY-03C



HS-03B / HS-03BC

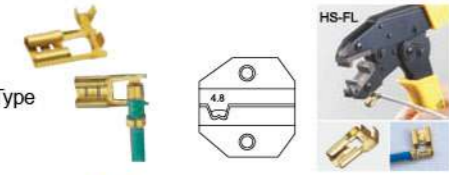
For Non-Insulated tabs
and receptacles



Tool Specifications	HS-03B	HS-03BC
Capacity	1.5-6.0 mm ²	0.5-6.0 mm ²
AWG	16-10 AWG	16-10 AWG
Length	230 mm	230 mm
Weight	0.6Kg	0.6Kg

HS-05FL / HS-FL

Range of Application:
For 4.8-6.3mm² Flag Type receptacles



Tool Specifications	HS-05FL	HS-FL
Capacity	4.8-6.3 mm ²	4.8mm ²
AWG	3-6 AWG	3-6 AWG
Length	230 mm	230 mm
Weight	0.6Kg	0.6Kg

HS-11

Range of Application:
For Clamp of galvanothermy film terminal



Tool Specifications		
Capacity	4.0 mm ²	
AWG	12 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-103

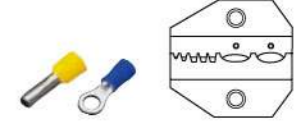
Range of Application:
Crimping Cap (for insulated closed terminals only)



Tool Specifications		
Capacity	1, 2, 6 mm ²	
AWG		
Length	230 mm	
Weight	0.6Kg	

HS-06WF2C

Range of Application:
For cable end-sleeves and Insulated Terminals



Tool Specifications		
Capacity	0.5-2.5 mm ²	
AWG	20-14 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-12

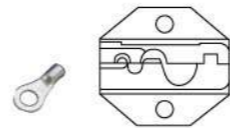
Range of Application:
For 6-8-10mm² Terminals



Tool Specifications		
Capacity	6-8-10 mm ²	
AWG	10-8 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-101

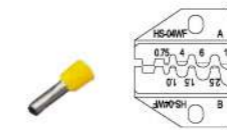
Range of Application:
For Non-Insulated Terminals



Tool Specifications		
Capacity	1.5-10 mm ²	
AWG	16-8 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-04WF

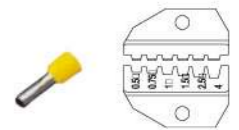
Range of Application:
For Insulated and Non-Insulated cable end-sleeves



Tool Specifications		
Capacity	1-6.0 mm ²	
AWG	20-10AWG	
Length	230 mm	
Weight	0.6Kg	

HS-04WFL

Range of Application:
For Insulated and Non-Insulated cable end-sleeves



Tool Specifications		
Capacity	0.5-4.0 mm ²	
AWG	20-12 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-1016

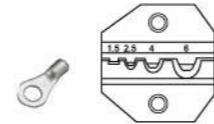
Range of Application:
For Non-Insulated Terminals



Tool Specifications		
Capacity	0.5-16 mm ²	
AWG	20-8 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-10

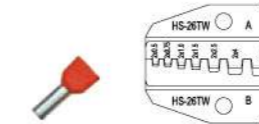
Range of Application:
For Non-Insulated Terminals



Tool Specifications		
Capacity	1.5-6.0 mm ²	
AWG	16-10 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-26TW

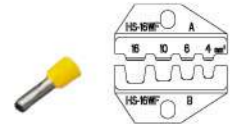
Range of Application:
For Insulated and Non-Insulated cable end-sleeves



Tool Specifications		
Capacity	2 x 0.5-6.0 mm ²	
AWG	2 x 20-10 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-16GF

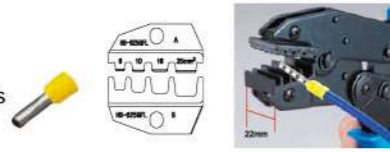
Range of Application:
For Non-Insulated Terminals



Tool Specifications		
Capacity	4-16 mm ²	
AWG	16-8 AWG	
Length	230 mm	
Weight	0.6Kg	

HS-625WFL

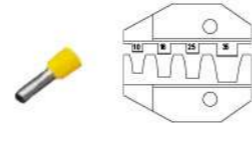
Range of Application:
For Non-Insulated Terminals
Width:22mm



Tool Specifications	
Capacity	6-25 mm ²
AWG	10-4AWG
Length	230 mm
Weight	0.6Kg

HS-35WF

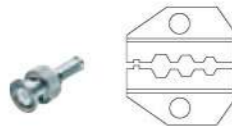
Range of Application:
For Insulated and Non-Insulated cable end-sleeves



Tool Specifications	
Capacity	10-35 mm ²
AWG	8-2 AWG
Length	230 mm
Weight	0.6Kg

HS-02H2

Range of Application:
For coaxial cable



Tool Specifications	
Capacity	0.315" (8.0mm)/0.252" (6.4mm)/0.068" (1.7mm) HEX & 0.042" (1.0mm)SQ
Connector Types	BNC/TNC, and Mini-UHF
Cable Types	RG59, RG62, BELDEN 8281, 50 and 75 ohm
Length	230mm
Weight	0.6kg

HS-02H

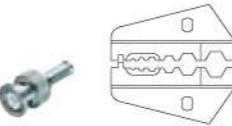
Range of Application:
For Coaxial cable



Tool Specifications	
Capacity	0.315" (8.0mm)/0.252" (6.4mm)/0.068" (1.7 mm)HEX & 0.042" (1.0mm)SQ
Connector Types	BNC/TNC, and Mini-UHF
Cable Types	RG59, RG62, BELDEN 8281, 50 and 75 ohm
Length	230mm
Weight	0.6kg

HS-02H1

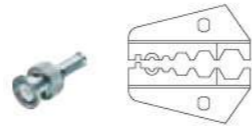
Range of Application:
For Coaxial cable



Tool Specifications	
Capacity	0.346" (8.8mm)/0.319" (8.1mm)/0.256" (6.5mm) HEX
Connector Types	CATV "F" Type
Cable Types	RG59, RG6 VIDEO CABLE
Length	230mm
Weight	0.6kg

HS-05H

Range of Application:
For Coaxial cable



Tool Specifications	
Capacity	0.178" (4.5mm)/0.255" (6.5mm)/0.278" (7.0mm)/0.068" (1.7mm)/0.041" (1.0mm) HEX
Connector Types	HDTV BNC/TNC Tue 75-ohm
Cable Types	Belden 1855A, 1865A, 1505A, 1505F, 1694A, 1694F, 179DT
Length	230mm
Weight	0.6kg

HS-457

Range of Application:
For Coaxial cable



Tool Specifications	
Capacity	0.320" (8.13mm)/0.210" (5.33mm)/0.185" (4.7mm) HEX
Connector Types	BNC/TNC
Cable Types	RG6, RG58
Length	230mm
Weight	0.6kg

Ratchet Terminal Crimping Tools

HS-16

For non-insulated cable links(Point type)
With ratchet device, convenient operation and fine rust prevention
Life time more than 30,000 times

Tool Specifications	
Capacity	1.25-16mm ²
AWG	16-6
Length	270mm
Weight	0.55Kg



HS-6M

Crimping cap
(For insulated closed terminals)



Tool Specifications	
Capacity	1.5-10mm ²
AWG	16-8
Length	250mm
Weight	0.35Kg

HS-6L

Non-insulated cable links
(Point type)



Tool Specifications	
Capacity	1-6mm ²
AWG	18-10
Length	250mm
Weight	0.35Kg

HD-6

For non-insulated cable links (Point type)



Tool Specifications	
Capacity	0.5-6mm ²
AWG	20-10
Length	205mm
Weight	0.21Kg

HS-8

For non-insulated terminals (Point type)



Tool Specifications	
Capacity	1.25-8mm ²
AWG	16-8
Length	270mm
Weight	0.55Kg

HS-14

For non-insulated cable links (Point type)



Tool Specifications	
Capacity	6, 10, 16mm ²
AWG	10-6
Length	270mm
Weight	0.55Kg

HX-10

For non-insulated cable links (Hexagonal type)



Tool Specifications	
Capacity	1.5-10mm ²
AWG	10-6
Length	270mm
Weight	0.55Kg

HX-16

For non-insulated terminals (Hexagonal type)

- With ratchet device, convenient operation and fine rust prevention
- Life time more than 30,000 times



Tool Specifications	
Capacity	6-16mm ²
AWG	10-6
Length	270mm
Weight	0.55Kg

HX-26B

For non-insulated terminals (Hexagonal type)

- With ratchet device, convenient operation and fine rust prevention
- Life time more than 30,000 times



Tool Specifications	
Capacity	6-25mm ²
AWG	10-4
Length	354mm
Weight	0.85Kg

HS-22

For non-insulated terminals(Point type)

- With ratchet device, convenient operation and fine rust prevention
- Life time more than 30,000 times



Tool Specifications	
Capacity	5.5-25mm ²
AWG	10-4
Length	354mm
Weight	0.85Kg

HS-38

For non-insulated terminals(Point type)

- With ratchet device, convenient operation and fine rust prevention
- Life time more than 30,000 times



Releasing device ensure safe operation

Tool Specifications	
Capacity	5.5-38mm ²
AWG	10-2
Length	356mm
Weight	0.85Kg

Copper Tube Terminal Crimping Tool

The crimping tools is used for non-welding and standard electrical connection. The mould of the crimping dies is made of SCM-40 hardest tool steel. It is with the characteristics of long life, accurate bore diameter and good crimping effect.

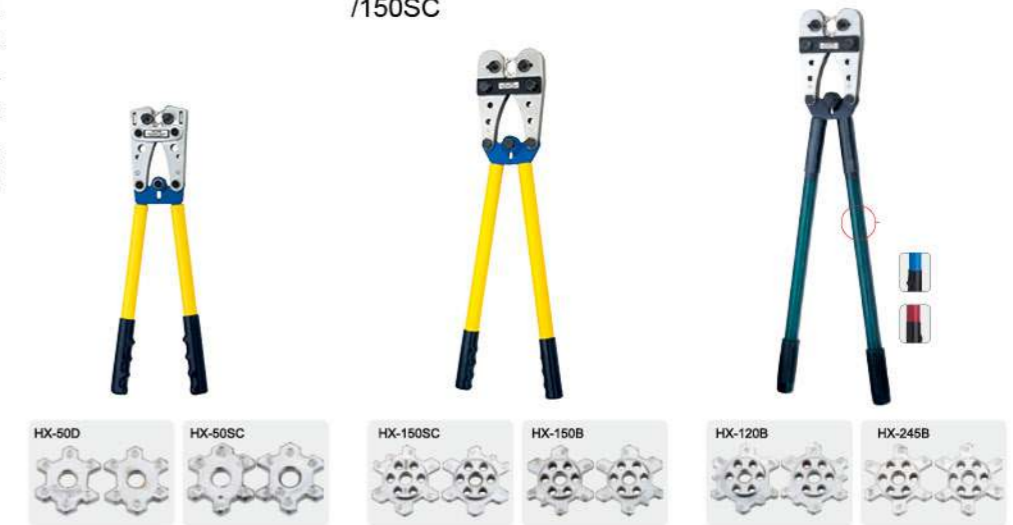
Cu, Al Terminal Crimping



HX-50B / 50SC / 50D

HX-120A/120B/150B /150SC

HX-245B



Part Numbers	Range of Application	Capacity	Length	Weight
HX-50B	BS Standard type terminals	6.0-50 mm ²	390mm	1.3Kg
HX-50T	BS Standard type terminals	6.0-50 mm ²	390mm	1.3Kg
HX-50SC	For SC cable lugs	6.0-50 mm ²	390mm	1.3Kg
HX-50D	For DIN46235 copper terminals	6.0-50 mm ²	390mm	1.3Kg
HX-120D	BS Standard type terminals	6-120 mm ²	620mm	4Kg
HX-120B	BS Standard type terminals	10-120 mm ²	620mm	4Kg
HX-120T	BS Standard type terminals	16-120 mm ²	620mm	4Kg
HX-150B	BS Standard type terminals	25-150 mm ²	620mm	4Kg
HX-150SC	For SC cable lugs	25-150 mm ²	620mm	4Kg
HX-245B	BS Standard type terminals	70-240 mm ²	980mm	5.6Kg

Crimping pliers is applicable for non-welding crimping complied with standard electrical connection. The material of the dies is accurate SK-5 tool steel with long life. Adjust the jaw diameter according to the sizes of terminals.



CT-38

CT-80

CT-150



Part Numbers	Range of Application	Capacity	Length	Weight
CT-38	BS Standard type terminals	6.0-50 mm ²	390mm	1.3Kg
CT-80	BS Standard type terminals	6.0-50 mm ²	390mm	1.3Kg
CT-150	For SC cable lugs	6.0-50 mm ²	390mm	1.3Kg

The crimping tools is used for non-welding and standard electrical connection. All the components are made of special steel, treated by special quenching and annealing. The head of the mouth tool has been polished. The tools is with the characteristics of long life and the diameter of the crimping month can be adjusted according to the size of the terminal.



KH-95



KH-150



KH-230



Part Numbers	Range of Application	Capacity	Length	Weight
KH-95	Naked terminal	16-95mm ² AL/CU	6-3/0	3.6kg
KH-150	Naked terminal	8-95mm ²	8-250MCM	3.1kg
KH-230	Naked terminal	16-150mm ²	8-500MCM	4.7kg

HS35K Interchangcable molds

- Interchangeable molds
- Open-type pressare connector
- Head free to rotate360°
- Telescopic handle



HS22K Telescopic handle

- Interchangeable molds
- Open-type pressare connector
- Head free to rotate360°
- Telescopic handle



HS-300JYX1 Interchangcable molds

- Open-type pressare connector
- Head free to rotate360°
- Telescopic handle



Tool Specifications	HS35K	HS22K
Range of Application	10-150mm ² (Cu)6-120mm ² (Al)	16-300mm ² (Cu)10-240mm ² (Al)
Crimping die	10,16,25,35,50,70,95,120,150mm ²	10,16,25,35,50,70,95,120,150,240,300mm ²
Length	420~590mm	580~860mm
Weight	2.5Kg	6.2Kg

Tool Specifications	HS35K
Range of Application	16-300mm ²
Crimping die	6T
Stroke	12mm
Crimping dies	16,25,35,50,70,95,120,150,185,240,300mm ²

Mini Combination Tools

C8K-D364A



- This tool suite is equipped with:
- HSC86-4A Crimping pliers one (crimp range0.08~6mm²)
 - FS-D3 Wire strippers a (Stripping range0.08~6mm²)

Tool Specifications	
w x d x h	200 x 95 x 50mm
Weight	6.5Kg

C8K-D366



- This tool suite is equipped with:
- HSC86-6 Crimping pliers one (crimp range0.08~6mm²)
 - FS-D3 Wire strippers a (Stripping range0.08~6mm²)

Tool Specifications	
w x d x h	200 x 95 x 50mm
Weight	0.6Kg

FSBK-D3B



- This tool suite is equipped with:
- FSB-0525YJ Crimping pliers one (crimp range0.5~2.5mm²)
 - FS-D3 Wire strippers a (Stripping range0.25~6mm²)
 - T20 Plum wrench within 7 font (4x100mm)
 - B056TD Pressure line module (range of pressure line0.5~6mm²)

Tool Specifications	
w x d x h	200 x 95 x 50mm
Weight	1.08Kg

SNK-D30725



- This tool suite is equipped with:
- SN-0725 Crimping pliers one (crimp range0.25~2.5mm²)
 - FS-D3 Wire strippers a (Stripping range0.08~6mm²)
 - H20 Seven shaped Allen wrench (2.5x100mm)
 - Pressure line module two kinds of N06WF,N0325 (range of pressure line0.5~6mm²)

Tool Specifications	
w x d x h	200 x 95 x 50mm
Weight	0.6Kg

HSK-30JN



- This tool suite is equipped with:
- HS-30J Crimping pliers one (crimp range0.5~6mm²)
 - PH Screwdriver a (6x10mm)
 - Pressure line module four kinds of S1016, S03B, S26TW, S35WF(range of pressure line0.5~35mm²)

Tool Specifications	
w x d x h	272 x 121 x 63mm
Weight	1.1Kg

HSK-056YJD



- This tool suite is equipped with:
- FSA-056YJ Crimping pliers one (crimp range0.5~6mm²)
 - T20 Plum wrench within 7 font (4x100mm)
 - Pressure line module four kinds of A1510TX, A0510TD, A616TD, A2056 (range of pressure line0.5~35mm²)

Tool Specifications	
w x d x h	272 x 121 x 63mm
Weight	1.3Kg

HSK-10N



- This tool suite is equipped with:
- HS-1 Crimping pliers one (crimp range1.5~6mm²)
 - FSA-0626 Wire strippers a (Stripping range0.9~6mm²)
 - PH Screwdriver a (6x10mm)
 - Pressure line module four kinds of S04WFL, S03C, S103, S03B(range of pressure line0.5~35mm²)

Tool Specifications	
w x d x h	272 x 121 x 63mm
Weight	1.1Kg

HSK-0725N



- This tool suite is equipped with:
- SN-0725 Crimping pliers one (crimp range0.5~2.5mm²)
 - FSA-0626 Wire strippers a (Stripping range0.9~6mm²)
 - H20 Seven shaped within wrench (2.5x100mm)
 - Pressure line module four kinds of N0325, N11011, N06WF, N16WF (range of pressure line0.25~16mm²)

Tool Specifications	
w x d x h	272 x 121 x 63mm
Weight	0.85Kg

HSBK-054YJ



- This tool suite is equipped with:
- FSB-0525YJ Crimping pliers one (crimp range0.5~4mm²)
 - YF044 Wire strippers a (0.25~6mm²)
 - T20 Plum wrench within 7 font (4x100mm)
 - Pressure line module four kinds of B0525YJ, B056GT, B616GT, B056TD (range of pressure line0.5~6mm²)

Tool Specifications	
w x d x h	272 x 121 x 63mm
Weight	0.7Kg

HSCK-616TD



- This tool suite is equipped with:
- FSC161TD Crimping pliers one (crimp range4~16mm²)
 - YF044 Wire strippers a (0.25~6mm²)
 - T20 Plum wrench within 7 font (4x100mm)
 - Pressure line module four kinds of C416TX, C0510GF, C56YJ, C2550GF (range of pressure line0.5~50mm²)

Tool Specifications	
w x d x h	272 x 121 x 63mm
Weight	1.25Kg

HSAK-56YJ



- This tool suite is equipped with:
- FSA-056YJ Crimping pliers one (crimp range0.5~2.5mm²)
 - YF044 Wire strippers a (0.25~6mm²)
 - T20 Plum wrench within 7 font (4x100mm)
 - Pressure line module four kinds of A1035GF,A625GF,A2056GF,A0510TD (range of pressure line0.5~35mm²)

Tool Specifications	
w x d x h	272 x 121 x 63mm
Weight	1.3Kg

HSK-1



Tool Specifications	
w x d x h	200 x 95 x 45mm

HSK-2



Tool Specifications	
w x d x h	272 x 121 x 63mm

Crimping Tool Kit

SN0725-5D1



Complete crimp Tool SN0725-5D1
Crimping tool kit SN-0725+4 die set (A-02B, A-02WF, A-06WF, A-02) Crimping pliers SN-0725
Applications: tube-type terminals, naked terminals, pre-insulated terminals and connectors;
Packing: Color inner box plus standard;
Material: plastic enclosures, packaging.

Tool Specifications	
w x d x h	277 x 22 x 61mm
Weight	1.08kg

LY05H-5A2



Complete crimp Tool LY05H-5A2
Cut line pliers HS-206HT-312B
Crimping pliers Crimping tool hs-05h+4 die set+HT-312B+206+4mold(A-02H, A-02H1, A457)
Applications: tube-type terminals, naked terminals, pre-insulated terminals and connectors;
Packing: Color inner box plus standard;
Material: plastic enclosures, packaging.

Tool Specifications	
w x d x h	347 x 23 x 72mm
Weight	1.807kg

LY03C-5D3



Complete crimp Tool LY-03C+4 mold (LY-04WF, LY-16WF, LY-10, LY-03B)
Crimping pliers crimping tool ly-03c+4 die set(A-03B, A-04WF, A-26TW, A-10)
Applications: tube-type terminals, naked terminals, pre-insulated terminals and connectors;
Packing: Color inner box plus standard;
Material: plastic enclosures, packaging.

Tool Specifications	
w x d x h	277 x 22 x 61mm
Weight	1.328kg

HS-5D Plastic tool box (German)



Plastic sorting box HS-5D
Applications: tube-type terminals and various hardware tools and small parts storage
Packing: Color inner box plus standard;
Material: plastic box packaging

Tool Specifications	
w x d x h	277 x 22 x 61mm
Weight	1.08kg

HSZ 6D1



Stripping tool set for break up to 6mm² and crimp tube ends, include:

- Tool Box FSZ6D1
- Wire strippers FSA-0626 for 0.5-6mm²PVC stripping wire insulation
- Crimping pliers HSC86-6 for 0.3-6mm² with a tubular plastic sleeve ends.
- With a tubular plastic sleeve ends.

Tool Specifications						
Model	Crimping Pliers	Wire strippers	The tubular terminal 350	The tubular terminal 400	The tubular terminal 200	Weight
FSZ 6D1	HSC86-6	FSA-0626	0.75, 1.0mm ²	2.5, 1.5mm ²	2.5, 1.5mm ²	1.257Kg
FSZ 6D2	HSC86-4	FS-D3	0.75, 1.0mm ²	2.5, 1.5mm ²	2.5, 1.5mm ²	1.33Kg
FSZ 6D3	-	FS-2.5	0.5, 0.7, 1.0mm ²	1.5, 2.0, 2.5mm ²	1.5, 2.0, 2.5mm ²	1.30Kg

HSZ 6D2



Stripping tool set for break up to 6mm² and crimp tube ends, include:

- Tool Box FSZ6D2
- Wire strippers FS-D3 for 0.5-6mm²PVC stripping wire insulation
- Crimping pliers HSC86-4 for 0.3-6mm² with a tubular plastic sleeve ends.
- With a tubular plastic sleeve ends.

HSZ 6D3



With a tubular plastic sleeve ends

HS-17D Mini Home Set tools (German)



Digital test pen
0.25kg claw hammer
Cutter
Stripping pliers
Screwdriver(+, -)
Screwdriver extension adjustable wrench
soldering iron
High-grade diagonal pliers(160mm)
High-grade long nose pliers(160mm)
High-grade combination pliers(180mm)
3m Tape Measure
Hex key ball-end(6PC)
Clock Screwdriver
Gloves

HS-1D



Complete crimp Tool HS-1D
Applications: tube-type terminals;
Packing: Color inner box plus standard;
Material: plastic enclosures, packaging, including a variety of standard cable connectors.

Tool Specifications	
w x d x h	240 x 195 x 55mm
Weight	0.45Kg

HS-2D



Complete crimp Tool HS-2D
Terminals as needed reprovision
Packing: Color inner box plus standard;
Material: plastic enclosures, packaging, including PZ-0.25-2.5 Crimping pliers one (crimp range 0.25-2.5mm²). A variety of standard cable connectors.

Tool Specifications	
w x d x h	240 x 195 x 55mm
Weight	0.6Kg

HS-3D



Complete crimp Tool HS-3D
Applications: tube-type terminals;
Packing: Color inner box plus standard;
Material: plastic enclosures, packaging, including SC8-6-4A terminal crimping pliers a, (Crimping range 0.08-6mm²), FS-8 Wire strippers a, A variety of standard cable connectors.

Tool Specifications	
w x d x h	240 x 195 x 55mm
Weight	1.08Kg

Crimping Tool Kit

HSC816-4D



Complete crimp Tool HSC816-4D
Applications: tube-type terminals;
Packing: Color inner box plus standard;
Material: metal box body packaging, including a variety of standard cable connectors.

Tool Specifications	
w x d x h	295x180x45mm
Weight	1.11Kg

HSC86-6D



Complete crimp Tool HSC86-6D
Terminals as needed reprovision
Packing: Color inner box plus standard;
Material: metal box body, packaging, including HSC86-6 Crimping pliers one (crimp range 0.5-6mm²), a variety of standard cable connectors.

Tool Specifications	
w x d x h	205x152x42mm
Weight	1.3Kg

LAS-005D



Complete crimp Tool LAS-005D
Applications: tube-type terminals;
Packing: Color inner box plus standard;
Material: metal box body, packaging, including LAS-005 terminal crimping pliers a, Pressure line module three kinds of B, W, N (Crimping range 0.5-10mm²), a variety of standard cable connectors.

Tool Specifications	
w x d x h	295x180x45mm
Weight	2.6Kg

HSC86-4AD



Complete crimp Tool HSC86-4AD
Applications: tube-type terminals;
Packing: Color inner box plus standard;
Material: metal box body, packaging, including HSC86-4A Crimping pliers one (crimp range 0.5-6mm²), a variety of standard cable connectors.

Tool Specifications	
w x d x h	205x152x42mm
Weight	1.3Kg

SN-02CAD



Complete crimp Tool SN-02CAD
Complete crimp Tool HS-3D
Applications: tube-type terminals;
Material: metal box body, packaging, including SN-02CA Crimping pliers one (crimp range 0.25-2.5mm²), H02Seven shaped within hex wrench (2.5x100mm), a variety of standard cable connectors.

Tool Specifications	
w x d x h	205x152x42mm
Weight	1.3Kg

HS0.5-16PZD



Complete crimp Tool HS0.5-16PZD
Applications: tube-type terminals;
Packing: Color inner box plus standard;
Material: metal box body packaging, including a variety of standard cable connectors.

Tool Specifications	
w x d x h	295x180x45mm
Weight	1.28Kg

Hydraulic crimping tools

QZD-400A Quik hydraulic pliers

- The tool has two stages speed of the ram and automatically switches form a fast advancing speed to a slower crimping speed.
- for ease of operation and comfort the operator the tool head can be fullyrotated through 180 degrees.
- The tool is provided with full automatic reaction when crimping complete, it can save the time of manual pressure release.
- With interchangeable crimping dies with multiple crimping geometry's.



HT-300 Hydraulic crimping tool



CYO-300C Quik hydraulic pliers

Safety system inside

- It is applicable crimping cable copper and aluminum terminals.
- Hexagonal mould is adopted to ensure tight press connection.
- With two stages speed of high and low pressure, it is easy for operating oil feeding speed and convenient for save oil by adopting rotary type extrusion mode.

ZYO-400 Quik hydraulic pliers

Safety system inside

It is applicable crimping cable copper and aluminum terminals. Hexagonal mould is adopted to ensure tight press connection.



ZCO-400 Quik hydraulic pliers

Safety system inside

It is applicable crimping cable copper and aluminum terminals. Hexagonal mould is adopted to ensure tight press connection.



ZCO-300 Quik hydraulic pliers

Safety system inside

- It is applicable crimping cable copper and aluminum terminals.
- Hexagonal mould is adopted to ensure tight press connection.



ZHO-300 Quik hydraulic pliers

Safety system inside

- It is applicable crimping cable copper and aluminum terminals.
- Hexagonal mould is adopted to ensure tight press connection.



YQ-70 Quik hydraulic pliers

Safety system inside

- It is applied to overhead distribution and press connection for copper terminals and sleeve of underground cable. Hexagonal mould is adopted to ensure tight press connection, good electric conduction and non-easy shedding.



FKO-240A Quik hydraulic pliers

Safety system inside

- With two stages of high and low pressure, when the safety protection device with "crack" sound will be finished operating.
- With conjoined design of pump body, pressing head part can rotate at 180 degrees of angle.



CPO-150S Quik hydraulic pliers

Safety system inside

- With two stages of high and low pressure, when the safety protection device with "crack" sound will be finished operating.
- With conjoined design of pump body, pressing head part can rotate at 180 degrees of angle.



EP-430 Quik hydraulic pliers

Safety system inside

- It is applicable crimping cable copper and aluminum terminals.
- Hexagonal mould is adopted to ensure tight press connection.



Model	Range of Application	Crimping force	Stroke	Standard dies	Weight	Packaging & Size	Package
Al, Cu Terminal Crimping							
QZD-400A	16-400mm ²	10 ton		16,25,35,50,70,95,120,150,185,240,300,400mm ²	6.2Kg	690x250x120mm	Steel case
HT-300	16-300mm ²	10 ton		16,25,35,50,70,95,120,150,185,240,300mm ²	5.0Kg	690x250x120mm	Aluminum alloy code case
CYO-300C	35-240mm ² (Al Terminal) 50-300mm ² (Cu Terminal)	12 ton		50,70,95,120,150,185,240,300mm ²	6.2Kg	545x130x235mm	Plastic case
ZYO-400	50-300mm ² (Al Terminal) 70-400mm ² (Cu Terminal)	12 ton		50,70,95,120,150,185,240,300,400mm ²	5.5Kg	545x130x235mm	Plastic case
ZCO-400	50-300mm ² (Al Terminal) 70-400mm ² (Cu Terminal)	12 ton		50,70,95,120,150,185,240,300,400mm ²	6.5Kg	545x130x235mm	Plastic case

Model	Range of Application	Crimping force	Stroke	Standard dies	Weight	Packaging & Size	Package
Al, Cu Terminal Crimping							
ZCO-300	10-240mm ² (Al Terminal) 16-300mm ² (Cu Terminal)	10 ton	30 mm	16,25,35,50,70,95,120,150,185,240mm ²	5Kg	690x250x120mm	Plastic case
FKO-240A	10-185mm ² (Al Terminal) 16-240mm ² (Cu Terminal)	10 ton	16 mm	16,25,35,50,70,95,120,150,185,240,300mm ²	4.8Kg	690x250x120mm	Plastic case
ZHO-300	35-240mm ² (Al Terminal) 16-300mm ² (Cu Terminal)	10 ton	16 mm	16,25,35,50,70,95,120,150,185,240,300mm ²	6.2Kg	545x130x235mm	Plastic case
CPO-150S	8-100mm ² (Al Terminal) 16-150mm ² (Cu Terminal))	10 ton	14 mm	Female dies(Maledies): 16,25,35,50,70,95,120,150mm ²	5.5Kg	545x130x235mm	Plastic case
YQ-70	6-70mm ² (Al Terminal) 6-70mm ² (Cu Terminal)	6 ton	10 mm	8-38,60-70mm ² 14-22,38-60,70mm ²	6.5Kg	545x130x235mm	Plastic case
EP-430	35-300mm ² (Al Terminal) 50-400mm ² (Cu Terminal)	12 ton	32mm	50,70,95,120,150,185,240,300,400mm ²	6.4Kg	755x130x230mm	Plastic case

HP-120 / HP-120B Quik hydraulic pliers

- It is applied to overhead distribution and press connection for copper terminals and sleeve of underground cable. Hexagonal mould is adopted to ensure tight press connection, good electric conduction and non-easy shedding.

HP-120B
Safety system inside



HP-300 / HP-300B Quik hydraulic pliers

- It is applied to overhead distribution and press connection for copper terminals and sleeve of underground cable. Hexagonal mould is adopted to ensure tight press connection, good electric conduction and non-easy shedding.

HP-300B
Safety system inside



YQ-240A Quik hydraulic pliers

- It is applicable crimping cable copper and aluminum terminals.
- Hexagonal mould is adopted to ensure tight press connection.



HP-240 Quik hydraulic pliers

- It is applicable to press connection of cable copper and aluminum terminal bushing;
- Hexagonal mould is adopted to ensure tight press connection.



YQ-120A Quik hydraulic pliers

- It is applied to overhead distribution and press connection for copper terminals and sleeve of underground cable. Hexagonal mould is adopted to ensure tight press connection, good electric conduction and non-easy shedding.



YQ-300A Quik hydraulic pliers

- It is applicable crimping cable copper and aluminum terminals.
- Hexagonal mould is adopted to ensure tight press connection.



Model	Range of Application	Crimping force	Stroke	Standard dies	Weight	Packaging & Size	Package
Al, Cu Terminal Crimping							
HP-120 HP-120B	8-100mm ² (Al Terminal) 14-150mm ² (Cu Terminal)	8 ton	30 mm	10,16,25,35,50,70,95,120mm ²	3.0Kg 3.1Kg	415x126x65mm	Plastic case
HP-240	10-185mm ² (Al Terminal) 16-240mm ² (Cu Terminal)	12 ton	16 mm	16,25,35,50,70,95,120,150,185,240mm ²	3.8Kg	490x130x70mm	Plastic case
HP-300 HP-300B	35-240mm ² (Al Terminal) 50-300mm ² (Cu Terminal)	12 ton	16 mm	50,70,95,120,150,185,240,300mm ²	3.9Kg 4.0Kg	490x130x70mm	Plastic case
YQ-120A	10-120mm ² (Al Terminal) 16-120mm ² (Cu Terminal)	8 ton	14 mm	16,25,35,50,70,95,120mm ²	4.8Kg	545x130x235mm	Plastic case
YQK-240A	10-185mm ² (Al Terminal) 16-240mm ² (Cu Terminal)	8 ton	10 mm	16,25,35,50,70,95,120,150,185,240mm ²	4.8Kg	545x130x235mm	Plastic case
YQK-300A	10-185mm ² (Al Terminal) 16-300mm ² (Cu Terminal)	8 ton	32mm	16,25,35,50,70,95,120,150,185,240,300mm ²	6.4Kg	755x130x230mm	Plastic case

EP-410 Quik hydraulic pliers

- It is applicable to press connection of cable copper and aluminum terminal bushing;
- Hexagonal mould is adopted to ensure tight press connection.
- With two stages speed of high and low pressure, it is easy for operating oil feeding speed and convenient for scavenge oil by adopting rotary-type extrusion mode.
- Lead part can rotate at 180 degrees.



HT-51 Quik hydraulic pliers

- The compression pliers are designed for hydraulic crimping on power cable and wire. The crimped conductor is tested in high conductivity and close contact so that it's uneasy to break out and turn hot.
- Dies are quickly put on tube by double speed unit. Then compression force lift and automatically change to low speed. The operation finish with energy saving and time shorten.
- The head could be rotated at 180° freely for narrow space working. Fitted with safety valve. When pressure reaches to limited max, Value pressure release automatically to prevent over pressure. Packing case is made of integral plastic box.



Model	Range of Application	Crimping force	Stroke	Standard dies	Weight	Packaging & Size	Package
Al, Cu Terminal Crimping							
EP-410	35-240mm ² (Al Terminal) 50-300mm ² (Cu Terminal)	12 ton	30 mm	50,70,95,120,150,185,240,300mm ²	6.6Kg	755x130x230mm	Plastic case
FKO-240A	10-185mm ² (Al Terminal) 10-240mm ² (Cu Terminal)	8 ton	16 mm	10,16,25,35,50,70,95,120,150,185,240mm ²	2.7Kg	380x130x70mm	Plastic case

Hydraulic Tools

Split hydraulic clamp

- It is specially designed for inside and outside power transmission and distribution project, various kinds of connecting terminals, overhead and underground cabling.
- Crimping high voltage cable sleeve, wire grips, un-insulated terminals, hexagon terminals. Crimped part tight and uneasy to break out in good conductivity.
- Standard seven sets of die assembling.
- Dies could be ordered and available in any sizes.
- The oil pipe coupler fitted with PT 3/8 thread.
- To be worked with pedal pump, manual pump and electric driven hydraulic pump.

CO-1000



CO-630B



HYQ-500B



HM-400



Model	Range of Application	Crimping force	Stroke	Standard dies	Weight	Packaging & Size	Package
Al, Cu Terminal Crimping							
CO-1000	300-800mm ² (Al Terminal) 400-1000mm ² (Cu Terminal)	60 ton	24mm	400,500,630,800,1000mm ²	32Kg	755x130x230mm	Carton
CO-630B	50-630mm ² (Al Terminal)	35 ton	26mm	150,185,240,300,400,500, 630mm ²	17.5Kg	380x130x70mm	Steel case
HYQ-500B	50-500mm ²	22 ton	22mm	50,70,95,120,150,185,240, 300,400,500mm ²	20Kg		Steel case
HM-400	35-300mm ² (Al Terminal) 50-400mm ² (Cu Terminal)	16 ton	20mm	50,70,95,120,150,185,240, 300,400mm ²	9Kg	355x90x155mm	Steel case

- The compression pliers are designed for hydraulic crimping on power cable and wire.
- The crimped conductor is tested in high conductivity and close contact so that its uneasy to break out and turn hot.
- Open cut design for convenient operation.
- Standard ten sets of die assembling.
- The oil pipe coupler fitted with PT 3/8 thread.
- To be worked with pedal pump, manual pump and electric driven hydraulic pump.

CO-630A



EP-510H



EP-410H



CYO-400B



Model	Range of Application	Crimping forc.	Stroke	Standard dies	Weight	Packaging & Size	Package
Al, Cu Terminal Crimping							
CO-630A	150-630mm ²	30 ton	25 mm	150,185,240,300,400,500, 600mm ²	25Kg		Carton
EP-510H	35-300mm ² (Al Terminal) 50-400mm ² (Cu Terminal)	13 ton	38mm	50,70,95,120,150,185,240, 300,400mm ²	5.6Kg	355x90x155mm	Steel case
EP-410H	16-300mm ² (Al Terminal) 50-300mm ² (Cu Terminal)	12 ton	30 mm	35,50,70,95,120,150,185, 240,300mm ²	4.8Kg	355x90x155mm	Steel case
CYO-400B	16-400mm ² (Al Terminal) 50-400mm ² (Cu Terminal)	12 ton	32 mm	50,70,95,120,150,185,240, 300,400mm ²	5Kg	355x90x155mm	Steel case

DC Fan

Dimension (mm)	Model	Voltage (V)	Current (A)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)	Weight (G)
80 × 80 × 25	RQD8025MS	5	0.32	1.60	32.90	2500	28.3	82
	RQD8025 LS	12	0.12	1.44	27.60	2100	22.5	82
	RQD8025MS	12	0.14	1.68	32.90	2600	29.3	82
	RQD8025HS	12	0.18	2.16	38.60	3000	32.0	82
	RQD8025MS	24	0.08	1.92	38.30	3000	32.0	82

Dimension (mm)	Model	Voltage (V)	Current (A)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)	Weight (G)
92 × 92 × 25	RQD9225MS	5	0.35	1.75	36.0	2000	25.0	103
	RQD9225LS	12	0.13	1.56	36.0	2000	25.0	103
	RQD9225MS	12	0.16	1.92	43.5	2400	31.1	103
	RQD9225HS	12	0.20	2.40	50.0	3000	32.2	103
	RQD9225MS	24	0.12	2.88	45.0	2500	31.5	103

Dimension (mm)	Model	Voltage (V)	Current (A)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)	Weight (G)
120 × 120 × 25	RQD12038MS	12	0.32	3.84	85	2300	35.0	250
	RQD12038LS	12	0.34	4.08	90	2500	36.5	250
	RQD12038MS	24	0.20	4.80	85	2300	35.0	250
	RQD12038HS	48	0.18	8.64	90	2500	36.5	250

AC Fan

Dimension (mm)	Model	Voltage (V)	Frequency (Hz)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)
80x80x25	RQA8025HBL	110	50/60	0.13/0.11	15/18	2400/2500	28/28.5
	RQA8025HBL	220	50/60	0.08/0.07	15/18	2350/2500	27/28
	RQA8025HSL	110	50/60	0.13/0.11	15/18	2400/2500	28/28.5
	RQA8025HSL	220	50/60	0.09/0.08	15/18	2350/2500	27/28

Dimension (mm)	Model	Voltage (V)	Frequency (Hz)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)
92x92x25	RQA9225HBL	110	50/60	0.11/0.10	32/40	2400/2500	27/26
	RQA9225HBL	220	50/60	0.08/0.07	32/40	2400/2500	27/26
	RQA9225HSL	110	50/60	0.11/0.10	28/34	2300/2500	27/26
	RQA9225HSL	220	50/60	0.08/0.07	28/34	2300/2500	27/26



AC Fan



Dimension (mm)	Model	Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)
120x120x38	RQA12038HBL	110	50/60	0.24/0.23	22/21	90/100	2600/3000	42/44
	RQA12038HBL	220	50/60	0.14/0.13	22/21	90/100	2600/3000	42/44
	RQA12038HSL	110	50/60	0.24/0.23	22/21	90/100	2600/3000	42/44
	RQA12038HSL	220	50/60	0.14/0.13	22/21	90/100	2600/3000	42/44
	RQA12038HSL	380	50/60	0.07/0.06	22/21	90/100	2600/3000	42/44
	RQA12038HS(B)L	110/220	50/60	0.14/0.23	22/21	90/100	2600/3000	42/44

Dimension (mm)	Model	Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)
172x150x50	RQA15050HBL(T)	110	56/60	0.47/0.46	37/35	150/170	2400/2800	47/47.5
	RQA15050HBL(T)	220	56/60	0.23/0.22	35/33	150/170	2400/2800	45/46
	RQA15050HSL(T)	110	56/60	0.24/0.23	35/33	150/170	2400/2800	46/47

Dimension (mm)	Model	Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)
150x150x50	RQA15050HBL(T)	220	50/60	0.14/0.12	28/27	190/200	2700/3000	1
	RQA15050HBL(T)	110	50/60	0.28/0.27	28/27	190/200	2700/3000	3

Dimension (mm)	Model	Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)
200x200x60	RQA20060HBL(T)	220	50/60	0.38/0.36	65/63	420/480	2400/2600	1
	RQA20060HBL(T)	110	50/60	0.80/0.78	65/63	420/480	2400/2600	3

Dimension (mm)	Model	Voltage (V)	Frequency (Hz)	Phase	Current (A)	Power (W)	Air Volume (CFM)	Speed (RPM)	Noise Level (db)	Capacitance
200x200x60	RQA22580HA1BL	110	50/60	1	0.70	80	17	2600	65	5 μ F/250
	RQA22580HA2BL	220	50/60	1	0.40	80	17	2600	65	2.2 μ F/400
	RQA22580HA3BL	380	50/60	1	0.28	80	17	2600	65	-
	RQA22580HA6BL	380	50/60	1	0.32	80	17	2600	65	1.2 μ F/630



Lighting

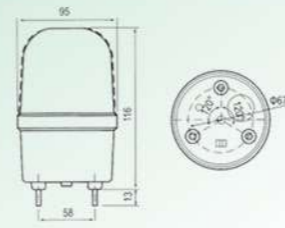
- 01 Roator Beacon
- 03 Multi-level Signal Tower
- 04 Motor Siren
- 05 Electric Bell
- 06 Humidity-proof light
- 07 Halogen Light
- 08 Ground Lamp
- 09 Work Light
- 10 Quartz Metal Halide Lamp
- 10 High Pressure Sodium Lamp
- 11 Halogen Tubes
- 11 Reflector Lamp For Indoor And Outdoor Use
- 12 High Bay Light

Roator Beacon

LTE-1101/1101J



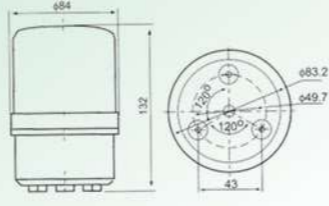
- ⊙ Voltage: AC110V/220V/380V
DC12V/24V
- ⊙ Power: 10W
- ⊙ Color: Red/Yellow/Green/Blue
- LTE-1101: Without siren
- LTE-1101J: With siren



LTE-1081/1081J



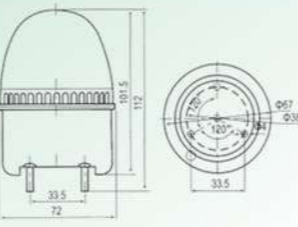
- ⊙ Voltage: AC110V/220V/380V
DC12V/24V
- ⊙ Power: 5W
- ⊙ Color: Red/Yellow/Green/Blue
- LTE-1081: Without siren
- LTE-1081J: With siren



LTE-2071/2071J



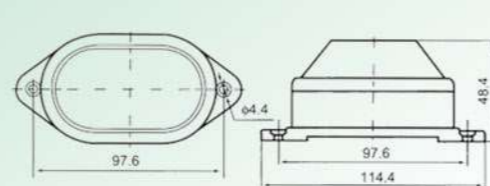
- ⊙ Voltage: AC110V/220V/380V
DC12V/24V
- ⊙ Power: 10W(DC)/15W(AC)
- ⊙ Color: Red/Yellow/Green/Blue
- LTE-2071: Without siren
- LTE-2071J: With siren



LTE-3051



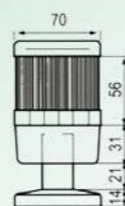
- ⊙ Voltage: AC110V/220V/380V
DC12V/24V
- ⊙ Power: 3W
- ⊙ Color: Red/Yellow/Green/Blue



LTET7Z-10



- ⊙ Voltage: DC24V
- ⊙ Color: Red/Yellow/Green/Blue
- Sound Pressure: 85db

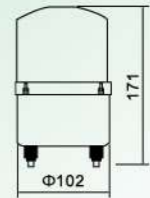


Roator Beacon

LTE-1102/1102J



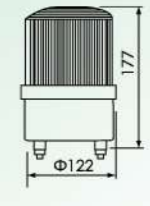
- ⊙ Voltage: AC110V/220V
DC12V/24V
- ⊙ Power: 10W
- ⊙ Color: Red/Yellow/Green/Blue
- LTE-1102: Without siren
- LTE-1102J: With siren



LTE-1121/1121J



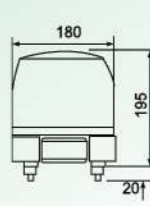
- ⊙ Voltage: AC110V/220V
DC12V/24V
- ⊙ Power: 10W
- ⊙ Color: Red/Yellow/Green/Blue
- LTE-1121: Without siren
- LTE-1121J: With siren



LTE-1181/1181J



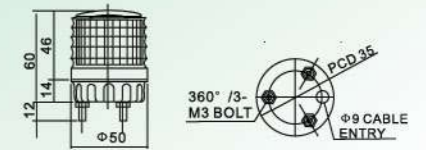
- ⊙ Voltage: AC110V/220V
DC12V/24V
- ⊙ Power: 35W
- ⊙ Color: Red/Yellow/Green/Blue
- LTE-1181: Without siren
- LTE-1181J: With siren



LTE-5051/5051J



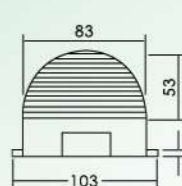
- ⊙ Voltage: AC110V/220V
DC12V/24V
- ⊙ Power: 2W
- ⊙ Color: Red/Yellow/Green/Blue
- LTE-5051: Without siren
- LTE-5051J: With siren



LTE-3072



- ⊙ Voltage: AC110V/220V
DC12V/24V
- ⊙ Power: 25W
- ⊙ Color: Red/Yellow/Green/Blue



Multi-level Signal Tower


LED-3T-D(1/2/3/4/5)



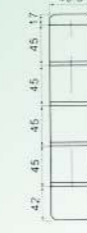
◎ Voltage: AC110V/220V DC12V/24V
 ◎ Decibel: 85db
 IP Rate: IP30



LED-T-D(1/2/3/4/5)



◎ Voltage: AC110V/220V DC12V/24V
 ◎ Decibel: 85db
 IP Rate: IP30



LED-U-D(1/2/3/4/5)



◎ Voltage: AC110V/220V DC12V/24V
 ◎ Decibel: 85db
 IP Rate: IP30



LED-K-D(1/2/3/4/5)



◎ Voltage: AC110V/220V DC12V/24V
 ◎ Decibel: 85db
 IP Rate: IP30



LED-K-D(1/2/3/4/5)




Motor Siren

MS-190




◎ Voltage: AC110V/220V DC12V/24V ◎ Decibel: 110db

MS-290




◎ Voltage: AC110V/220V DC12V/24V ◎ Decibel: 110db ◎ Housing: Iron/Plastic

MS-390































◎ Voltage: AC110V/220V DC12V/24V ◎ Decibel: 110db

MS-490

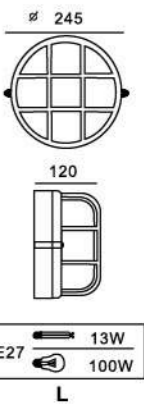



◎ Voltage: AC110V/220V DC12V/24V ◎ Decibel: 120db

Electric Bell

 EBL-7501 (UC4-75mm)	 EBL-1001 (UC4-100mm)	 EBL-1501 (UC4-150mm)	 EBL-2001 (UC4-200mm)	 EBL-2501 (UC4-250mm)	 EBL-3001 (UC4-300mm)
 EBL-7502 (UC4-75mm)	 EBL-1002 (UC4-100mm)	 EBL-1502 (UC4-150mm)	 EBL-2002 (UC4-200mm)	 EBL-2502 (UC4-250mm)	 EBL-3002 (UC4-300mm)
 EBL-1504 (CB-6)	 EBL-2004 (CB-8)	 EBL-2504 (CB-10)	 EBL-1005	 EBL-1505	 EBL-2005
 EBL-7507 (SHF-75mm)	 EBL-1007 (SHF-100mm)	 EBL-1257 (SHF-125mm)			
 EBL-5501 (UC4-55mm)	 EBL-5502 (UC4-55mm)	 DBL-10	 DBL-10	 DBL-2033	 DBL-2033

Humidity-proof light

 CE-9008S 60W CE-9008L 100W	 CE-9002S 60W CE-9002L 100W	 CE-9004S 60W CE-9004L 100W	 CE-9021S 60W CE-9021L 100W	 Ø 180 100 E27 60W S
 CE-9015S 600W CE-9015L 100W	 CE-9012S 60W CE-9012L 100W	 CE-9011S 60W CE-9011L 100W	 Ø 245 120 E27 13W E27 100W L	
 CE-9013S 600W CE-9013L 100W	 CE-9010S 60W CE-9010L 100W	 CE-9028 100W	 213 107 100 E27 60W S	
 CE-9023	 CE-9024	 CE-9025	 280 160 120 E27 13W E27 100W L	

Metal Halide Light




CE-150GL
Lamp: J78mm 150W/R7s
Sensor Angle: 360°
P/L: 20Pcs/ctn 64 × 43 × 30cm³




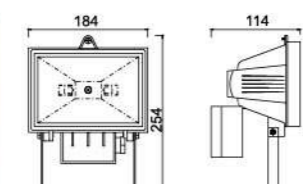

CE-J-150D-2
Lamp: E27 70W/150W
P/L: 4Pcs/ctn
56.5 × 41.5 × 36.5cm³




CE-300
Lamp: J118mm 300W/R7s
P/L: 20Pcs/ctn 57 × 37 × 34cm³




CE-J-250B
Lamp: E40 250W
P/L: 2Pcs/ctn
39.5 × 31.5 × 38cm³

CE-500
Lamp: J118mm 500W/R7s
P/L: 20Pcs/ctn
71.5 × 37.5 × 37.5cm³




CE-400-2
Lamp: E40 400W
P/L: 2Pcs/ctn 46 × 31 × 44cm³




CE-500G
Lamp: J118mm 500W/R7s
Sensor Angle: 120°/180°
P/L: 12Pcs/ctn 78 × 39 × 29cm³




CE-J-400B
Lamp: E40 400W
P/L: 2Pcs/ctn
50 × 36.5 × 45.5cm³




CE-1000B
Lamp: J189mm 1000W/R7s
P/L: 12Pcs/ctn 73 × 57 × 31cm³




CE-H-400C
Lamp: R7s/E40 400W
P/L: 1Pcs/ctn 60 × 44 × 16cm³

Halogen Light



CE-150L-B
Lamp: J78mm 150W/R7s
P/L: 20Pcs/ctn 68 × 38 × 26cm³

CE-500L-B
Lamp: J118mm 150W/R7s
P/L: 20Pcs/ctn 68 × 38 × 26cm³

CE-150L × 2-B
Lamp: J78mm 150W/R7s
P/L: 20Pcs/ctn 68 × 38 × 26cm³

CE-500L × 2-B
Lamp: J118mm 150W/R7s
P/L: 20Pcs/ctn 68 × 38 × 26cm³

Ground Lamp



GL-601

GL-602

GL-603



GL-604

GL-609

GL-610

Work Light



CIC727

Power:8Watts
 Light source:40pcs SMD 2835
 Luminous flux: 850LM
 Color temperature: 6000-6500k
 Handle with ship type switch, switch waterproof jacket
 Household plug and USB charging line
 1.2 meters length cable wire
 Built-in lithium battery
 Handle material: PP plastic



CIC720

Power:12Watts
 Light Source:60pcs 2835SMD
 Color temperature: 4000-6500K
 Luminous flux: 1080LM
 6*500mAh rechargeable battery
 AC-DC adaptor(CE)



CIC705

Power:5Watts
 Light source: 25pcs SMD 5730
 Luminous flux: 600LM
 Color temperature: 4000-6500K
 5M PVC cable wire ,AC 220V / 240V H05VV - F2 * 0.5mm2
 Handle material: ABS plastic



CE-4035

Use voltage:AC 110V/220V, DC 12V,power:60W, 100W,the plastic handle, the metal cover, the applicable scope is broad, is suitable for the automobile, the machinery repair and each kind of need presence illumination situation.

Packing: Plastic bag with the hand card
 Qty/Ctn:20pcs
 Outside box size:52.5 × 42.5 × 47cm
 G.W:13kgs
 N.W:11kgs

Quartz Metal Halide Lamp

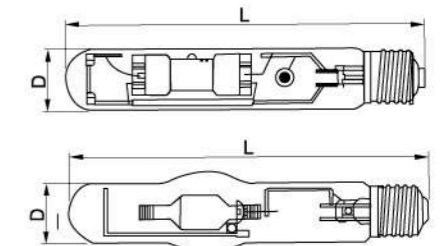
High luminous efficiency,good photochromism, long service life, Ra=65.

For Mid-wattage lamp's average life is 10000 hours, while for large wattage lamp's average life is about 3000hours.

Colour temperature include 3K,4K,6K,10k,20k etc
 ApplicatiOn:Streel, stadium, petrol station, warehouse etc.
 Burning Position:Horizontal ± 45°

◆ Specifications

Type	Power	Operating Current (A)	Operating Voltage (V)	Luminous Flux (lm)	Base	Max Diameter D(mm)	Max Length L(mm)
CEZ-T70	70	0.90	80 ± 10	5600	E27/E26	38	156
CEZ-T150	150	1.80	100 ± 10	11250	E27/E26	38	180
CEZ-T175	175	1.50	132 ± 10	14000	E40/E39	48	257
CEZ-T250	250	2.15	133 ± 10	20500	E40/E39	48	257
CEZ-T250	250	3.00	100 ± 10	20500	E40/E39	48	257
CEZ-T400	400	3.40	135 ± 10	38000	E40/E39	48	283
CEZ-TO400	400	4.00	100 ± 10	38000	E40/E39	67	283
CEZ-TO600	600	6.20	100 ± 10	50000	E40/E39	67	283
CEZ-T1000	1000	8.25	130 ± 10	110000	E40/E39	67	400
CEZ-TT1000	2000	16.5	130 ± 10	220000	E40/E39	100	430



TO- Shape

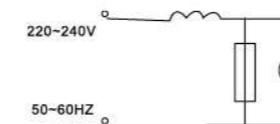
High Pressure Sodium Lamp

More efficient ignition with the unique design of its burner, prompter re-ignition.

Average life: 24000 hours.

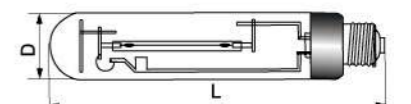
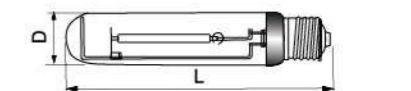
Luminous efficiency approach to 130 LM/W

Application: Road,airport,wharf and for plant growth use etc.



◆ Specifications

Type	Power	Operating Current (A)	Operating Voltage (V)	Luminous Flux (lm)	Base	Max Diameter D(mm)	Max Length L(mm)
HPS-T70	70	0.98	90 ± 10	6500	E27/E26	38	156
HPS-T100	100	1.20	90 ± 10	10400	E27/E26	38	161
HPS-T150	150	1.80	100 ± 10	16800	E40/E39	46	255
HPS-T250	250	3.00	100 ± 10	32000	E40/E39	46	255
HPS-T400	400	4.60	100 ± 10	55000	E40/E39	46	285
HPS-T600	600	6.20	100 ± 10	90000	E40/E39	46	290



Halogen Tubes



◆ Specifications

Model	Power (W)	Dimension Dia*Length (mm)	Luminous Flux lm 110V/220V	Life Hours (Ave)	Voltage (V)
J-78-100	100	8*78	1400/1300	2000	110-130V or 120-240V
J-78-150	150	8*78	2400/2000	2000	
J-78-200	200	8*78	3200/2800	2000	
J-78-250	250	8*78	4000/4000	2000	
J-118-150	150	8*118	2400/1500	2000	
J-118-200	200	8*118	3200/3000	2000	
J-118-250	250	8*118	4000/4000	2000	
J-118-300	300	8*118	5400/5000	2000	
J-118-500	500	8*118	10000/9500	2000	
J-189-750	750	10*189	15500/15000	2000	
J-189-1000	1000	10*189	22000/21000	2000	
J-254-500	1500	10*254	33500/33000	2000	
J-333-2000	2000	10*333	44000/43000	2000	

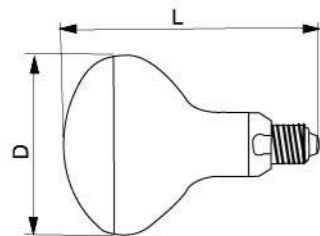
Reflector Lamp For Indoor And Outdoor Use



Good in photochromism, convenient to use.
 The inner-wall of the glass bulb is coated with reflex layer and designed with light focusing, which can be concentrate the light beam.
 Average life: 2000 hours.
 Application: living room, shop window, display hall, exhibition center etc.

◆ Specifications

Model	Power (W)	Supply Voltage (V)	Bulb	Base	M.OL (mm)
RS200W	200	110/220	120	E27	160
RS300W	300	110/220	127	E27	160
RS300W	300	110/220	135	E40	214
RS500W	500	110/220	160	E40	250



High Bay Light



Model	HB-01
Color	Specular light
Dia.	Φ377mm
Height	196mm

Model	HB-02
Color	Specular light
Dia.	Φ502mm
Height	366mm

Model	HB-03
Color	Specular light
Dia.	Φ483mm
Height	310mm

Model	HB-04
Color	Specular light
Dia.	Φ600mm
Height	270mm



Model	HB-05
Color	Specular light
Dia.	Φ484mm
Height	311mm

Model	HB-06
Color	Specular light
Dia.	Φ503mm
Height	190mm

Model	HB-07
Color	Specular light
Dia.	Φ503mm
Height	138mm

Model	HB-08
Color	Specular light
Dia.	Φ349mm
Height	283mm

K PRODUCTS CONTENTS
SERIES

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Stabilizer

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SDR Relay Type High Accuracy Full Automatic AC Voltage Regulator

◆ General

SDR series intelligent meter display full automatic AC voltage regulator adopts the international advanced technology and intelligent CPU centralized control technology, It has the advantages of high efficiency, beautiful appearance and reliable performance and so on. It is controlled by CPU to regulate the relays automatically. With high accuracy output voltage and its voltage display is intuitive All products have over voltage, delay, temperature and error production and also voltage two-way indication. All panels are made with ABS materials, and all indicator gauges are digital display, it leaves you a brand-new impression. These high performance products are specialized for users of unstable voltage and precision electronic instruments and equipments. Compared with other products, ours have a higher ratio of performance to price.



◆ Application

They are suitable in computer network, household appliances, medical equipment, research institution, test and measurement devices, factory test board etc.

◆ Technology Parameter

Input voltage	140-260V
Output voltage	220V ± 8%
Phase	Single-Phase
Frequency	50-60Hz
Adjust time	< 1sec. (against 10% input voltage deviation)
Protection over voltage	< 250 ± 2V
Protection lack voltage	< 180V ± 2V
Delay	Long Delay 2 mins Short Delay 3-7 sec
Temperature protection	100℃
Ambient temperature	-10~+40℃
Temperature rise	< 100℃ (full load)
Relative humidity	< 90%
Wave form distortion	No wave-form distortion
Efficiency	>95%
Power factor	0.8
Dielectric strength	1500V/min
Insulation resistance	≥ 5M Ω

◆ Specification, Dimensions and Weight

Spec Model	Unit(pcs)	Package size(mm)	Weight(Kg)
SDR-500VA	4	495 × 275 × 190	9.1
SDR-1000VA	4	710 × 300 × 230	15.1
SDR-1500VA	4	710 × 300 × 230	17.5
SDR-2000VA	4	710 × 300 × 230	21
SDR-3000VA	1	415 × 270 × 305	9.5
SDR-5000VA	1	415 × 270 × 305	11.5
SDR-8000VA	1	470 × 270 × 305	16.5
SDR-10000VA	1	470 × 270 × 305	18
SDR-12000VA	1	470 × 270 × 305	19.4

SVR Relay Type High Accuracy AC Voltage Regulator



◆ General

SVR series electronic voltage stabilizers are new products based on company's extensive market research, continuous innovation and improvement. They are designed for voltage unstable regions, they can ensure that household appliances and equipments work regularly, and can avoid damage problems caused by power shortages and voltage instability. These products have a higher ratio of performance to price than comparable ones, and they are protentors for varieties of electric equipments.

◆ Application

They are suitable in household appliances such as fridge TV sets, computers, daylight lamps, heating installation etc. And equipments of small businesses.

◆ Technology Parameter

Input voltage	140-260V
Output voltage	220V ± 8%
Phase	Single-Phase
Frequency	50-60Hz
Adjust time	< 1sec.(against 10% input voltage deviation)
Protection over voltage	< 250 ± 2V
Protection lack voltage	< 180V ± 2V
Delay	Long Delay 2 mins Short Delay 3-7 sec
Temperature protection	100℃
Ambient temperature	-10~+40℃
Temperature rise	< 100℃ (full load)
Relative humidity	< 90%
Wave form distortion	No wave-form distortion
Efficiency	>95%
Power factor	0.8
Dielectric strength	1500V/min
Insulation resistance	≥ 5M Ω

◆ Specification, Dimensions and Weight

Spec Model	Unit(pcs)	Package size(mm)	Weight(Kg)
SVR-500VA	8	480 × 290 × 330	20.8
SVR-1000VA	8	480 × 290 × 330	26.4
SVR-1500VA	4	315 × 305 × 420	18
SVR-2000VA	4	315 × 305 × 420	20
SVR-3000VA	1	405 × 268 × 290	9.2
SVR-5000VA	1	405 × 268 × 290	10.5
SVR-8000VA	1	475 × 268 × 290	15
SVR-10000VA	1	475 × 268 × 290	17.5
SDR-12000VA	1	470 × 270 × 305	19.4

TSD Hanging Type Servo High Accuracy Full Automatic AC Voltage Regulator



◆ General

TSD series servo AC voltage stabilizer is the redesigned product based on SVC with high precision, with the line power and the stabilized power outputs, over/under-voltage protection and over-current etc. Wall installation mean make it more novel and convenient to use.

◆ Application

Household appliance, industrial equipment, medical equipment, office equipment.

◆ Technology Parameter

Input voltage	140-260V
Output voltage	220V ± 3% 110V ± 6%
Phase	Single-Phase
Frequency	50-60Hz
Adjust time	< 1sec.(against 10% input voltage deviation)
Protection over voltage	245 ± 5V
Delay	Short Delay 3-7 sec
Ambient temperature	-10~+40℃
Temperature rise	< 60℃ (full load)
Relative humidity	< 90%
Wave form distortion	No wave-form distortion
Efficiency	>95%
Insulation resistance	≥ 5M Ω
Efficiency	>95%
Power factor	0.8
Dielectric strength	1500V/min
Insulation resistance	≥ 5M Ω

◆ Specification, Dimensions and Weight

Spec Model	Unit(pcs)	Package size(mm)	Weight(Kg)
TSD-3000VA	1	420 × 310 × 200	13
TSD-5000VA	1	420 × 320 × 210	21
TSD-8000VA	1	490 × 360 × 250	26
TSD-10000VA	1	420 × 380 × 730	28

TM Series Relay Type High Accuracy AC Voltage Regulator



◆ General

TM series AC voltage stabilizer adopt relay switch-over to adjust the output voltage, possessing the protection against time-delay, over voltage and under voltage and the free switching between the electric supply and voltage stabilization etc. It adopts the soft overall color of streamline gives people a bright and new look. It offers the advantages of quick work, accurate timing, steady performance, safety and electricity-saving, excellent design, reasonable construction, easy operation, wide input voltage range etc. The voltage stabilizers are the universal protectors in the high-grade household appliances, such as refrigerator, television and so on.

◆ Application

Lighting, equipment, household, appliance, air-conditioner, equipment, sound equipment.

◆ Technology Parameter

Input voltage	140-260V
Output voltage	220V ± 8%
Phase	Single-Phase
Frequency	50-60Hz
Adjust time	< 1sec.(against 10% input voltage deviation)
Protection over voltage	< 250 ± 2V
Delay	Long Delay 5 mins Short Delay 3-7 sec
Temperature protection	100°C
Ambient temperature	-10~+40°C
Temperature rise	< 100°C (full load)
Relative humidity	< 90%
Wave form distortion	No wave-form distortion
Efficiency	>95%
Power factor	0.8
Dielectric strength	1500V/min
Insulation resistance	≥ 5M Ω

◆ Specification, Dimensions and Weight

Spec Model	Unit(pcs)	Package size(mm)	Weight(Kg)
TM-3000VA	1	420 × 310 × 200	9.2
TM-5000VA	1	420 × 320 × 210	11
TM-8000VA	1	490 × 360 × 250	15.5
TM-10000VA	1	420 × 380 × 730	17

SVC Fully Automatic AC Voltage Stabilizer

◆ Specifications

Type	Output Power (W)	Product Size WxDxH(cm)	New Weight (kg)	Package Size (cm)		
Desk Type	SVC-0.5K	19x17x13	6.0	44x25x35		
	SVC-1K	22x20x16	7.0	50.5x28x39.5		
	SVC-1.5K	22x20x16	8.0	52x28x40		
	SVC-2K	26x24x19	11	34x32x50		
	SVC-3K	29x22x24	13	62x38x34		
	SVC-5K	46x24x19	13	54x32x26.5		
	SVC-8K	57x27x24	40	71x40x35		
	SVC-10	10000	57x27x24	41	71x40x35	
	Vertical Type		15000	73x50x44	41	73x50x44
			20000	50x55x96.5	41	50x55x96.5
		30000	120x64x55	150	120x64x55	
		5000	29x24x40	28.5	31x29x48	
		8000	29x24x42	39	40x37x57	
		10000	29x24x42	40	40x37x57	
		15000	40x33x65	75	48x45x90	
		20000	58x35x68	110	68x48x90	
		30000	53x43x102	165	64x56x106	
		45000	79x43x129	200	90x65x140	
	60000	79x43x129	250	90x65x140		



DBW SBW Single Three Phase Supper Power Compensated Voltage Regulator



◆ General

DBW/SBW Series full automatic compensated voltage stabilizers is an energy-saving new product developed by our company absorbing the advanced technology of international same product. With the functions of over/under-voltage protection, delay and error protection. It has advantages of small volume, light weight, large capacity, high efficiency, wide range, high precision, strong protection. Without wave-form distortion, reliable operation and easy installation etc.

◆ Application

Widely used in post and telecommunications, department stores, elevators, hospitals, schools, printing, securities and other occasions where all needs normal voltage to ensure, such as workshop mines medium enterprises. Some of the important equipment and computer power and support.

◆ Technology Parameter

Input voltage	Single-Phases: 175-265V Three phases four-line 175V-265V(phases voltage) 304V-456V(Line voltage) 154V-286V(phases voltage) 270V-490V(Line voltage)
Output voltage	Single Phase: 220V; Three phases: 380V
Output deviance	1-5%(Adjustable)
Frequency	50Hz/60Hz
Efficiency	≥ 95%(Power>50KVA)
Response time	≤ 1.5S
Ambient temperature	-10°C ~+40°C
Insulation resistance	≥ 5M Ω
Electrical intensity	Without breakdown and flashover phenomena at power frequency sine voltage 2000V for 1min
Overload	Double rated current, one min
Wave form distortion	Non-lack fidelity waveform
Protect	Overvoltage, overcurrent, feed phases



◆ Specification, Dimensions and Weight

Spec Model	Unit(pcs)	Package size(mm)	Weight(Kg)	Spec Model	Unit(pcs)	Package size(mm)	Weight(Kg)
DBW-20K	1	700 × 500 × 1350	283	SBW-150K	1	1000 × 720 × 1700	550
DBW-30K	1	700 × 500 × 1350	310	SBW-180K	1	1000 × 720 × 1700	570
DBW-40K	1	700 × 500 × 1350	330	SBW-200K	1	1000 × 720 × 2000	630
DBW-50K	1	800 × 600 × 1500	360	SBW-225K	1	1100 × 800 × 1800	660
DBW-60K	1	800 × 600 × 1500	380	SBW-250K	1	1100 × 800 × 2000	700
DBW-70K	1	800 × 600 × 1500	400	SBW-300K	1	1100 × 800 × 2100	740
DBW-80K	1	800 × 600 × 1500	430	SBW-320K	1	1100 × 800 × 2100	760
DBW-100K	1	900 × 700 × 1700	480	SBW-400K	1	1000 × 800 × 2100/2 柜	1100
DBW-120K	1	900 × 700 × 1700	510	SBW-500K	1	1000 × 800 × 2100/2 柜	1500
DBW-150K	1	900 × 700 × 1700	530	SBW-600K	1	1000 × 800 × 2100/2 柜	2200
DBW-180K	1	1000 × 800 × 1900	570	SBW-800K	1	850 × 1000 × 2200/3 柜	2800
DBW-200K	1	1000 × 800 × 1900	600	SBW-1000K	1	850 × 1000 × 2200/3 柜	3500
SBW-50K	1	800 × 620 × 1350	350	SBW-1200K	1	850 × 1000 × 2200/3 柜	4100
SBW-60K	1	800 × 620 × 1350	370	SBW-1600K	1	110 × 1100 × 2200/4 柜	5560
SBW-100K	1	850 × 620 × 1500	420	SBW-2000K	1	110 × 1100 × 2200/4 柜	7100

SVC Series Single Phase High Accuracy Full Automatic AC Voltage Regulator

◆ General

The SVC series voltage stabilizer is composed of servo motor, control circuit, compensator. It has advantages of small volume, light weight, high efficiency, wide voltage stabilizing range, no waveform distortion etc. All products are provided with over-voltage/under-voltage protection, delay (selective) protection, error protection and voltage two-way indication, which make the function of the product more perfect and reliable. To ensure quality, we introduce the advanced technology abroad, main parts adopt import spares. They are widely used in the fields of household appliances, industrial and agricultural production, scientific research, medicine and health areas. It is a kind of regulating power supply with the highest ratio of performance to price at present.

◆ Application

Computer, Duplicator, Test equipment, Lighting appliance, TV sets, Medical treatment equipment, Communication system etc,

◆ Technology Parameter

Input voltage	140-260V
Output voltage	220V ± 3% 110V ± 6%
Phase	Single-Phase
Frequency	50-60Hz
Adjust time	< 1sec.(against 10% input voltage deviation)
Protection over voltage	250 ± 2V
Delay	Short Delay 3-7 sec
Ambient temperature	-10~+40°C
Temperature rise	< 60°C (full load)
Relative humidity	< 90%
Wave form distortion	No wave-form distortion
Efficiency	>95%
Insulation resistance	≥ 5M Ω



◆ Specification, Dimensions and Weight

Spec Model	Unit(pcs)	Package size(mm)	Weight(Kg)
SVC-500VA	4	435 × 240 × 360	20
SVC-1000VA	4	520 × 290 × 400	28
SVC-1500VA	4	520 × 290 × 400	30
SVC-2000VA	2	590 × 340 × 240	20
SVC-3000VA	2	600 × 360 × 270	28
SVC-5000VA	1	550 × 320 × 260	21
SVC-8000VA	1	550 × 320 × 260	31
SVC-10000VA	1	550 × 370 × 310	34

Plug



UPS Uninterrupted Power Source Supply

◆ Application

The series of UPS is new products applied the world latest technology and designed specially for the personal computer, intergrating the functions of AC regulators, high-speed reserve power supply and wave absorption, have the characteristics of compact size, full function, high efficiency and quality,easy use etc. And their remarkable advantage of self-protection not only provide you uninterrupted power,also improve greatly the quality of power supply.Hence,decrease the bad effect to computer because of the bad quality of power supply.

◆ Specifications

Model	UPS-H			
Power	D500	F500/F1000	HS00/H1000	K780S/K1280S
Input Voltage	220V+10%	180-260V	170-265V	165-280V
Direct Supply Time	7min	10-15min		Long delay time unit by the battery provided
Frequency of Direct Supply	50Hz ± 10%			
Direct Output Voltage	220V ± 10%			
Charging Time of Battery	Receive 90%within 8 hours			
Inverted Output Voltage	220V ± 10%Square wave			
Frequency of Inverted Output	50Hz ± 1%			
Service Conditons	Ambient temperature 0-40℃ relative humidity:<90%			

◆ Specifications

Model	UPS-L			
Power	500VA/350W	650VA/420W	1000VA/650W	1200VA/750W
Input	Voltage Range	145V AC-285V AC		
	Frequency	50/60Hz+2.5%		
Output	Voltage Range	220V AC+5%		
	Frequency	50/60Hz+1%		
	Waveform	Simulated sine waveform		
	Transfer Time	4ms(Typica l)		
Battery	Type	Sealed, maintenance-free lead acid		
	Capacity	12V 7AH × 1		
	Backup Time	Over 8 minutes if use for one PC with a 17"monitor		
	Recharge Time	8 hours to 90% of full capacity		
Com munication Interface	RU PS2000	Option: RS232, RJ45/11 Port		
Protection	Output overload protection			
	Output short circuit protection			
	Battery over discharge protection			
	Thunder protection IEEE-587A			
Audible alarm	Power-off:Beeping sound every 4 seconds			
	Voltage-lack:Beeping sound every 1 second			
	Failure of battery use up: continuous beeping			
Environment	Temperature/ Humiclity	-5℃ --40℃ , 10%RH-90%RH		
	Noise	45<dB(A)(at one meter)		



Frequency Converter



◆ Application

LEI series Frequency converter integrates digital technology, computer technology, and modern autocontrol technology. It has many merits like high accuracy, low noise, large torque, reliable performance. Therefore, industries such as electronics, machine, metallurgy, weaving, printing, petrol, chemistry and so on. It takes an important role in improving the automatization level of industry and gets high reputation from industrial members.

◆ Main Characteristic

- A. Output of low speed constant torque, secure operation
- B. 16KHz carrier frequency, no noise
- C. General various control modes
- D. Inner RS-485 port for network computer control provided
- E. Adopting 16-bit micro-processor, controlled by SPWM
- F. Non-speed sensor vector control
- G. U/F and constant rotating speed startup control applied

◆ Specifications

Type	380	3007	3015	3022	3030	3040	3055	3075	3110	3150	3185	3220	3300	3370	3450	3550	3750	3950	31100	31320
Max Power of Motor(KW)	0.75	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75	95	110	132	
Rated Capacity (KVA)	1.6	2.6	3.7	4.7	6.5	8.6	11	17	22	26	30	40	50	60	75	102	130	150	180	
Rated Current (A)	2.5	4.0	5.5	7.0	9.5	13	17	25	34	40	46	60	76	92	110	153	195	225	271	
Max Voltage(V)	The associated input voltage																			
Input Voltage, Frequency	3P 380 50/60Hz																			
Output Scope	0.1Hz-400Hz																			
Frequency Analytical Step	Digital setting: 0.1 Hz																			
Frequency Accuracy	Digital setting: ± 0.01%, analog setting: ± 0.2% (per highest frequency)																			
Acceleration Slowdown Duration	0.1-600S, Respectively setting																			
Overloading	150% rating flr 1min																			

TDGC2 TSGC2 Voltage

◆ Application

The product is a special auto transformer which is connected in different forms, its output voltage can be regulated smoothly and continuously from zero to the maximum value. The provision of an indicating meter for the models TDGC2 0.2, 0.25, 0.5KVA. All the models find popular application in industries, agriculture and scientific researches, and are particularly suited to serve as ancillary facilities for such equipment as various machine tools, transistor curve tracers, projecting TV sets, and analytical instruments in petroleum industry etc.

◆ Specifications

Type	Phase	Frequency (Hz)	Input Voltage (A)	Output Voltage (V)	Max. Output Current (A)	Shape
TDGC2-0.2KVA	1	50/60	110/220	0-250	0.36/0.8	Round
TDGC2-0.25KVA					0.4/1	
TDGC2-0.5KVA					0.88/2	
TDGC2-1 KVA					1.6/4	
TDGC2-2KVA					3.2/8	
TDGC2-3KVA					4.8/12	Hexagon
TDGC2-5KVA					8/20	Round
TDGC2-10KVA					16/40	Octagon
TDGC2-15KVA					24/60	
TDGC2-20KVA					80	
TSGC2-3KVA	3	50/60	220/380	0-430	1.6/4	Hexagon
TSGC2-6KVA					3.2/8	
TSGC2-10KVA					5.4/13.4	
TSGC2-15KVA					20	Octagon
TSGC2-20KVA					28	
TSGC2-30KVA					40	

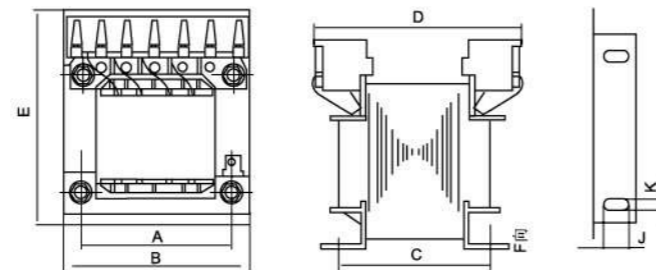


JBK Machine Tool Control Transformer

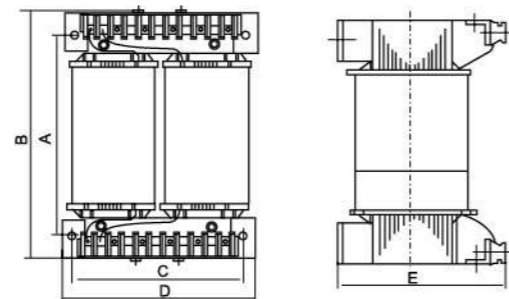
◆ Specifications

Type	Rated Capacity (VA)	Voltage		Load Current(%)	Impedance Voltage	Installation Size(mm)		Hole Size(mm) KXJ	Outline Size(mm)		
		Unload	Load			A	C		B	D	E
JBK-40	40	2.0	5.0	50	11	55	53	6x16	78	65	90
JBK-63	63	2.4	8.0	40	10	55	53	6x16	78	65	90
JBK-100	100	3.0	10.0	30	10	58	63	6x16	86	85	94
JBK-150	150	4.0	13.5	25	9.0	84	75	6x11	96	88	100
JBK-250	250	6.0	18.0	25	7.2	84	85	6x11	96	104	100
JBK-400	400	10.0	24.0	25	6.0	88	85	6x11	120	106	120
JBK-630	630	13.0	29.0	19	4.0	120	92	7x12	150	113	140
JBK-1000	1000	15.0	32.0	16	4.0	128	155	7x11	155	195	143
JBK-1000	1000	15.0	35.0	12	3.5	128	155	7x11	155	195	143
JBK-1600	1600	18.0	41.0	12	3.3	147	180	8.5	175	225	160
JBK-2000	2000	23.0	55.0	9	2.8	170	210	8.5	210	262	180
JBK-2500	2500	30.0	75.5	8	2.6	170	210	8.5	210	262	180

◆ Outline and Installation Dimensions



JBK-40VA~JBK-630VA



JBK-1000VA~JBK-2500VA



JBK-100VA



JBK-400VA



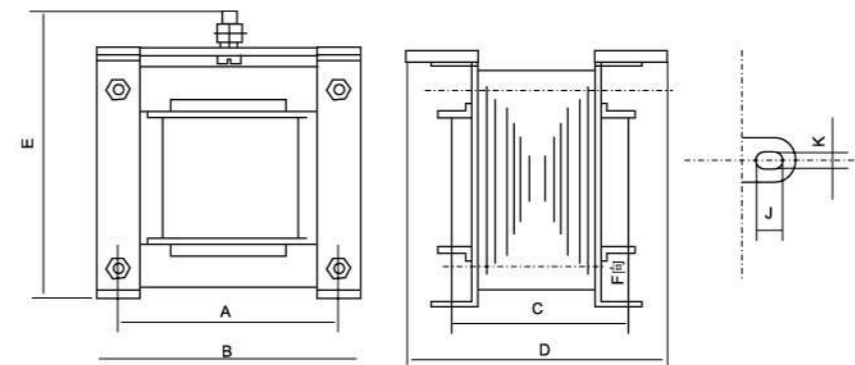
JBK3-630VA

BK Machine Tool Control Transformer

◆ Specifications

Type	Rated Capacity (VA)	Voltage		Load Current(%)	Impedance Voltage	Installation Size(mm)		Hole Size(mm) KXJ	Outline Size(mm)		
		Load	UnLoad			A	C		B	D	E
BK-25VA	25	1.0	3.0	50	12.0	63	48	5x7	82	80	85
BK-50VA	50	2.0	5.0	40	10.0	70	60	6x8	90	90	100
BK-100VA	100	3.0	10.0	30	10.0	87	68	6x8	110	100	112
BK-150VA	150	4.0	13.5	25	9.0	87	73	6x8	110	105	112
BK-200VA	200	5.0	15.0	22	7.5	87	87	6x8	110	110	115
BK-250VA	250	6.0	18.0	22	7.2	95	84	7x10	120	120	135
BK-300VA	300	7.0	20.0	23	6.7	95	90	7x10	120	130	135
BK-400VA	400	10.0	24.0	25	6.0	108	102	7x10	135	155	145
BK-500VA	500	11.5	26.0	20	5.1	110	105	7x10	140	150	150
BK-700VA	700	13.0	29.0	19	4.0	122	120	7x10	150	175	165
BK-1000VA	1000	15.0	32.0	16	4.0	135	125	7x10	170	180	185
BK-1000VA	1000	15.0	35.0	12	3.5	135	125	7x10	170	180	185
BK-1500VA	1500	18.0	41.0	12	3.3	143	135	7x10	176	205	185
BK-2000VA	2000	23.0	55.0	9	2.8	143	165	7x10	176	235	185
BK-3000VA	3000	30.0	75.5	8	2.6	170	170	Φ10	210	280	235
BK-5000VA	5000	48.0	99.0	7	2.1	240	155	Φ10	330	290	265

◆ Outline and Installation Dimensions



BK-50VA



BK-150VA



BK-200VA

Switching Power Supply

◆ AC-DC Single Population Output

Type	DC Output Current(A)	Output Voltage Range	Output Current Range	Efficiency
CPS-15-5 CPS-15-12 CPS-15-24	5V 12V 24V	± 2% ± 1% ± 1%	0-3A 0-1.3A 0-0.7A	65% 68% 72%
CPS-25-5 CPS-25-12 CPS-25-15 CPS-25-24	5V 12V 15V 24V	± 2% ± 1% ± 1% ± 1%	0-5A 0-2.1A 0-1.7A 0-1.1A	72% 76% 77% 80%
CPS-35-5 CPS-35-12 CPS-35-15 CPS-35-24	5V 12V 15V 24V	± 2% ± 1% ± 1% ± 1%	0-7A 0-3A 0-2.4A 0-1.5A	70% 76% 78% 78%
CPS-50-5 CPS-50-12 CPS-50-15 CPS-50-24	5V 12V 15V 24V	± 2% ± 1% ± 1% ± 1%	0-10A 0-4.2A 0-3.4A 0-2.1A	71% 78% 78% 82%
CPS-70-5 CPS-70-12 CPS-70-15 CPS-70-24	5V 12V 15V 24V	± 2% ± 2% ± 2% ± 1%	0-14A 0-6A 0-4.8A 0-3A	72% 78% 78% 82%
CPS-100-5 CPS-100-7.5 CPS-100-10 CPS-100-12 CPS-100-15 CPS-100-18 CPS-100-24	5V 7.5V 10V 12V 15V 18V 24V	± 2% ± 1% ± 1% ± 1% ± 1% ± 1% ± 1%	0-13.6A 0-10A 0-8.5A 0-6.7A 0-5.6A 0-5.6A 0-4.5A	78% 80% 80% 81% 81% 82% 84%
CPS-145-5 CPS-145-7.5 CPS-145-12 CPS-145-15 CPS-145-24	5V 7.5V 12V 15V 24V	± 2% ± 1% ± 1% ± 1% ± 1%	0-25A 0-18A 0-12A 0-9.6A 0-6A	78% 80% 80% 81% 83%
CPS-150-5 CPS-150-7.5 CPS-150-12 CPS-150-15 CPS-150-24	5V 7.5V 12V 15V 24V	± 2% ± 1% ± 1% ± 1% ± 1%	0-30A 0-20A 0-12.5A 0-10A 0-6.5A	78% 80% 82% 84% 85%
CPS-200-5 CPS-200-7.5 CPS-200-12 CPS-200-15 CPS-200-24	5V 7.5V 12V 15V 24V	± 2% ± 1% ± 1% ± 1% ± 1%	0-40A 0-26.7A 0-16.7A 0-13.4A 0-8.4A	73% 76% 80% 81% 83%
CPS-240-5 CPS-240-12 CPS-240-15 CPS-240-24	5V 12V 15V 24V	± 2% ± 1% ± 1% ± 1%	0-48A 0-18A 0-15A 0-10A	78% 82% 83% 84%

Switching Power Supply

◆ AC-DC Single Population Output

Type	DC Output Current(A)	Output	Output Voltage Range	Efficiency
CPS-320-5 CPS-320-12 CPS-320-24 CPS-320-48	5V 12V 24V 48V	± 2% ± 1% ± 1% ± 1%	0-50A 0-25A 0-12.5A 0-6.5A	77% 85% 86% 87%
CPS-350-5 CPS-350-12 CPS-350-24 CPS-350-48	5V 12V 24V 48V	± 2% ± 1% ± 1% ± 1%	0-60A 0-29A 0-14.6A 0-7.3A	73% 79% 81% 83%
CPS-500-12 CPS-500-13.5 CPS-500-15 CPS-500-24 CPS-500-27 CPS-500-48	12V 13.5V 15V 24V 27V 48V	± 1% ± 1% ± 1% ± 1% ± 1% ± 1%	0-40A 0-36A 0-32A 0-20A 0-18A 0-10A	84% 84% 83% 85% 85% 87%

◆ AC-DC Double Population Output

Type	DC Output Current(A)	Output Voltage Range	Power	Efficiency
CPD-30A	5V, 0.5-4.04 12V, 0.1-1.0	± 2% ± 3%	32W	72%
CPD-30B	5V, 0.5-4.04 12V, 0.1-1.0	± 2% ± 3%	35W	74%
CPD-50A	5V, 1.0-6.0 12V, 0.3-2.0	± 2% ± 5%	54W	73%
CPD-50B	5V, 1.0-6.0 12V, 0.2-1.0	± 2% ± 8%	54W	73%
CPD-60A	5V, 0.3-6.0 12V, 0.2-4.0	± 2% ± 6%	56W	73%
CPD-60B	5V, 0.3-6.0 12V, 0.2-2.2	± 2% ± 5%	58W	76%
CPD-120	5V, 2.0-12 12V, 0.5-5.0	± 2% ± 6%	78W	78%
CPD-120B	5V, 2.0-10 12V, 0.4-4.0	± 2% ± 7%	80W	80%

◆ AC-DC Three Population Output

Type	DC Output Current(A)	Output Voltage Range	Power	Efficiency
CPD-30A	5V, 0.5-4.04 12V, 0.1-1.0 -5V, 0.1-0.5A	± 2% ± 3% ± 2%	30W	70%
CPD-30B	5V, 0.5-4.04 12V, 0.1-1.0 -12V, 0.1-0.5A	± 2% ± 3% ± 2%	30W	70%



CPS-15
Size:99 × 97 × 35MM



CPS-25
Size:110 × 78 × 36MM



CPS-35
Size:130 × 99 × 39MM



CPS-50, CPS-70
Size:160 × 99 × 42MM



CPS-100
Size:198 × 99 × 42MM



CPS-145
Size:200 × 110 × 51MM



CPS250
Size:230 × 118 × 60MM



CPS320
Size:125 × 115 × 50MM



CPD-30
Size:130 × 99 × 39MM



CPD-60
Size:160 × 99 × 42MM



CPD-120
Size:200 × 110 × 51MM



CPD-30
Size:130 × 99 × 39MM

Switching Power Supply

◆ AC-DC Three Population Output

Type	DC Output Current(A)	Output Voltage Range	Power	Efficiency
CPT-50A	5V, 0.6-7.0A	± 2%	52W	66%
	12V, 0.2-1.0A	± 5%		
	-12V, 0.2-1.0A	± 5%		
CPT-50B	5V, 0.6-5.0A	± 2%	49W	69%
	12V, 0.2-1.0A	± 5%		
	-12V, 0.2-1.0A	± 5%		
CPT-50C	5V, 0.6-4.0A	± 2%	50W	71%
	15V, 0.2-1.0A	± 5%		
	-15V, 0.2-1.0A	± 5%		
CPT-50D	5V, 0.6-4.0A	± 2%	51W	72%
	12V, 0.2-1.2A	± 6%		
	24V, 0.2-1.2A	± 6%		
CPT-120A	5V, 2.0-12A	± 2%	120W	77%
	12V, 0.5-5.0A	± 6%		
	-5V, 0.2-1.0A	± 6%		
CPT-120B	5V, 0.6-5.0A	± 2%	115W	77%
	12V, 0.5-5.0A	± 6%		
	-12V, 0.2-1.0A	± 6%		
CPT-120C	5V, 2.0-12A	± 2%	117W	76%
	15V, 0.2-5.0A	± 5%		
	-15V, 0.2-1.0A	± 5%		
CPT-120D	5V, 2.0-12A	± 2%	112W	80%
	12V, 0.2-5.0A	± 6%		
	24V, 0.2-2.0A	± 6%		

◆ AC-DC Single Population Output

Type	DC Output Current(A)	Output Voltage Range	Power	Efficiency
CPQ-60A	5V, 0.5-8.0A	± 2%	60W	70%
	12V, 0.1-3.0A	± 6%		
	-5V, 0.0-1.0A	± 5%		
	-12V, 0.0-1.0A	± 5%		
CPQ-60B	5V, 0.5-8.0A	± 2%	62W	75%
	12V, 0.1-3.0A	± 6%		
	24V, 0.1-1.5A	± 5%		
	-12V, 0.0-1.0A	± 5%		
CPQ-120B	5V, 2.0-12A	± 2%	120W	77%
	12V, 0.5-5.0A	± 6%		
	-5V, 0.2-1.0A	± 6%		
	-12V, 0.2-1.0A	± 6%		
CPQ-120B	5V, 2.0-12A	± 2%	124W	80%
	12V, 0.5-5.0A	± 6%		
	24V, 0.2-2.0A	± 6%		
	-12V, 0.2-1.0A	± 6%		



CPT-60
Size:160 × 99 × 42MM



CPT-120
Size:200 × 110 × 51MM



CPQ-60
Size:160 × 99 × 42MM



CPQ-120
Size:200 × 110 × 51MM

CBB60 Metallized Polypropylene Film Capacitor

◆ Application

This product is suitable for equipment, the instrument and electric fan, washer, electric refrigerator, an air conditioning alternating current machine start and revolution. With a small loss, antimoist, excellent electrical performance, reliability, large capacity, long life and good self-healing properties.

◆ Specifications

Spec	Model	CBB60
Operating Temperature		-40°C ~70°C
Capacity Range		2 μ F~100 μ F
Capacity Tolerance		J(± 5%)K(± 10%)
Rated Voltage		250V,400V,450V,630V
Withstand Voltage		AC ≥ 1.75Un 2S(I _{max} ≤ 1.3InA)
Withstand & Box Voltage		AC ≥ 2000V 2S
Loss Angle		≤ 0.004(1KHz,20°C)
Insulation Resistance		≥ 3000S

◆ Dimensions

◆ Specifications

Type	250V	400V~450V	630V
Capacitance Range(μ F)	DXH	DXH	DXH
3	34 × 50	34 × 50	34 × 60
5	34 × 50	34 × 50	34 × 60
6	34 × 50	34 × 50	38 × 70
8	34 × 50	34 × 60	38 × 70
10	34 × 50	34 × 60	42 × 70
12	34 × 50	38 × 70	42 × 70
15	34 × 60	38 × 70	42 × 80
16	34 × 60	38 × 70	42 × 80
20	38 × 70	42 × 70	45 × 90
25	38 × 70	42 × 80	45 × 90
30	42 × 70	50 × 100	50 × 100
35	42 × 70	50 × 100	50 × 120
40	45 × 90	50 × 100	50 × 120
45	45 × 90	50 × 100	55 × 120
50	45 × 90	50 × 100	60 × 120
620	45 × 90	50 × 120	60 × 120
100	50 × 100		



PRODUCTS CONTENTS
L SERIES

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Wall mounting industrial enclosure

◆ Standard Configuration

- Body and door manufactured in 1.2 to 1.5mm steel sheet
- Flat mounting plate or gavanized steel plate in 1.5mm steel sheet FINSH
- Cycle thermosetting epoxy polyester powder coating
- Body and door painted to RAL 7032
- Mounting plate in RAL 2004 smooth finish

PROTECTION DEGREE
IP65 to EN60 529 NEMA4

PACKING

Boxes are complete with:

- Mounting plate
- Gland plate and gasket
- Wall fixing brackets and screws
- Locking round bar key



◆ Specifications(single door)

Model	H(mm)	W(mm)	D(mm)	Model	H(mm)	W(mm)	D(mm)
ME252015	250	200	150	ME605020	600	500	200
ME302015	300	200	150	ME605025	600	500	250
ME302515	300	250	150	ME606025	600	600	250
ME302520	300	250	200	ME606030	600	600	300
ME303015	300	300	150	ME705020	700	500	200
ME303020	300	300	200	ME705025	700	500	250
ME403015	400	300	150	ME705030	700	500	300
ME403020	400	300	200	ME806020	800	600	200
ME404020	400	400	200	ME806025	800	600	250
ME503015	500	300	150	ME806030	800	600	300
ME503020	500	300	200	ME808020	800	800	200
ME503025	500	300	250	ME808030	800	800	300
ME504015	500	400	150	ME1006025	1000	600	250
ME504020	500	400	200	ME1006030	1000	600	300
ME504025	500	400	250	ME1008025	1000	800	250
ME504030	500	400	300	ME1008030	1000	800	300
ME505020	500	500	200	ME10010030	1000	1000	300
ME604015	600	400	150	ME1208030	1200	800	300
ME604020	600	400	200	ME1208040	1200	800	400
ME604025	600	400	250	ME12010030	1200	1000	300
ME605015	600	400	150	ME12010040	1200	1000	400

◆ Specifications(double door)

Model	H (mm)	W (mm)	D (mm)
MED608020	600	800	200
MED608025	600	800	250
MED608030	600	800	300
MED6010025	600	1000	250
MED6010030	600	1000	300
MED708030	700	800	300
MED808030	800	800	300
MED808040	800	800	400

Model	H (mm)	W (mm)	D (mm)
MED8010030	800	1000	300
MED1C01C030	1000	1000	300
MED10010035	1000	1000	350
MED10010040	1000	1000	400
MED1208030	1200	800	300
MED1208040	1200	800	400
MED12010325	1200	1000	250
MED1201CC30	1200	1000	300

Model	H (mm)	W (mm)	D (mm)
MED12012040	1200	1200	400
MED14010025	1400	1000	250
MED14010030	1400	1000	300
MED14010040	1400	1000	400
MED14012030	1400	1200	300
MED14012040	1400	1200	400
MED14014030	1400	1400	300
MED14014040	1400	1400	400

Wall mounting industrial enclosure

◆ Specifications

Model	H(mm)	W(mm)	D(mm)
MEI403015	400	300	150
MEI403020	400	300	200
MEI404020	400	400	200
MEI503020	500	300	200
MEI503025	500	300	250
MEI504020	500	400	200
MEI504025	500	400	250
MEI504030	500	400	300
MEI604020	600	400	200
MEI604025	600	400	250
ME1605020	600	500	200
MEI605025	600	500	250
MEI606025	600	600	250
MEI606030	600	600	300
ME1705025	700	500	250
MEI705030	700	500	300
MEI806025	800	600	250
MEI806030	800	600	300
MEI1006025	1000	600	250
MEI1006030	1000	600	300
MEI1008025	1000	800	250
MEI1008030	1000	800	300
MEI1208025	1200	800	250
MEI1208030	1200	800	300



Lock System



Changeover Switch



Network Box



◆ Specifications(double door)



Waterproof Box



◆ Specifications

50 × 30	50 × 50	80 × 50	85 × 85 × 50	100 × 100 × 70	150 × 110 × 70	150 × 150 × 70
200 × 155 × 80	200 × 100 × 70	255 × 200 × 80	300 × 250 × 120	400 × 350 × 120		



◆ Specifications

80 × 30	85 × 85 × 50	100 × 100 × 70	150 × 110 × 70	200 × 100 × 70	200 × 100 × 110	200 × 155 × 80
200 × 155 × 80	255 × 200 × 80					



◆ Specifications

65 × 50 × 55	85 × 80 × 60	110 × 80 × 70	100 × 100 × 70	120 × 100 × 70	150 × 110 × 70	175 × 125 × 75
175 × 125 × 100	150 × 150 × 80	200 × 100 × 80	180 × 180 × 80	200 × 155 × 100	200 × 200 × 100	200 × 200 × 100
300 × 250 × 130	350 × 300 × 130	400 × 350 × 130				

HT Box



HT2-5
12X160X92

HT-8
120X150X90

HT-12
250X200X108



HT-15
310X200X108

HT-18
370X198X108

HT-24
275X355X108

HA Box



HA2-4
140X210X100

HA-8
215X210X100

HA-12
250X200X108



HA-18
410X285X140

HA-24
300X415X140

HA-24
410X655X141

ZY Box



HK Box



CEBC Box



HPK Box



CHG Box



LGD Box

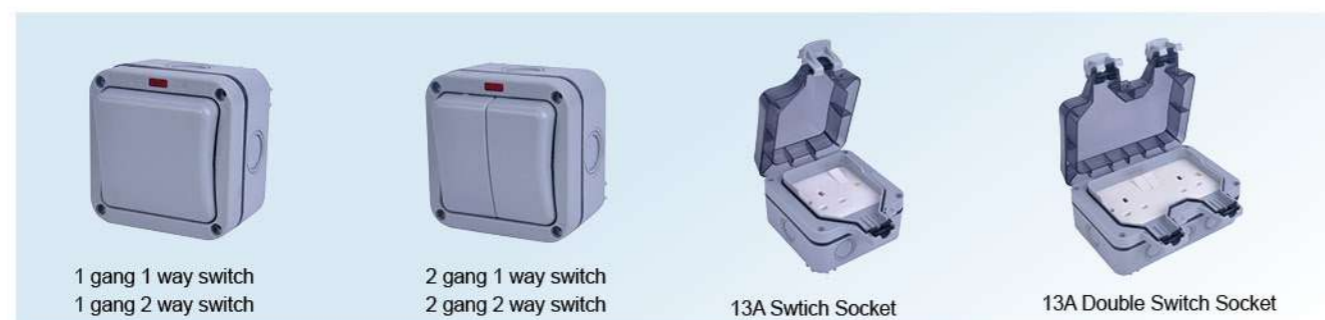


TSM Box



Conceal Type	4W	6W	8W	10W	12W	15W	18W	24W	36W	45W
Surface Type	4W	6W	8W	10W	12W	15W	18W	24W	36W	45W
No. of row	1 row						2 row		3 row	

Water Proof Switch & Socket



Locks for Distribution Box

Model	Mouring Hole Dimension	Model	Mouring Hole Dimension	Model	Mouring Hole Dimension
MS406		MS705		MS705-3	
MS407		MS503		MS603	
MS603-2		MS240-2		MS240-A	
MS490-1		MS490-2		CL204	
MS705-5		MS705-4		CL203-1	
MS301-1		212B			

Hinge series



Hinge series



Power Fitting

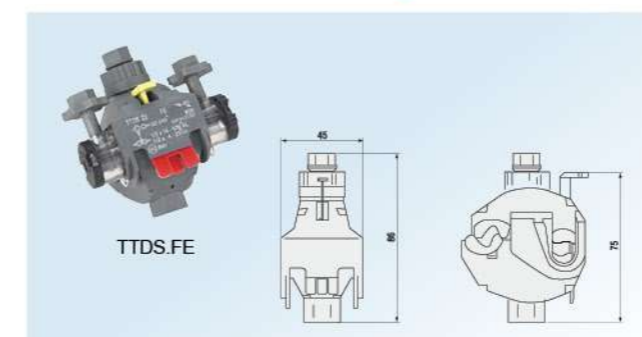


NTD-2 Insulation Piercing Connector



Model	Main line(mm2)	Branch line (aluminum/copper)(mm2)
NTD 50-35 F	7-54(copper)	6-35
NTD 50-35 AF	7-54(aluminum)	6-35
NTD 95-95-1 FA	7-95(copper)	35-95
NTD 95-95-1 AFA	7-95(aluminum)	35-95
NTD 95-95-1 EFA	7-95	35-95
NTD 150-150 F	50-150(copper)	50-150
NTD 150-150 AF	50-150(aluminum)	50-150
NTD 150-150 EF	50-150	50-150

TTDS.FE Insulation Piercing Connector



Model	Main line (mm ²)	Branch line (mm ²)		Dimensions (mm)		
		Min	Max	A	B	H
TTDS 11 FE	50	1x16M(aluminum)	1x35M(aluminum)	68	49	64
TTDS 11 BFE	-150	1x4(copper)	1x25(copper)			
TTDS 12 FE	50	1/2x16M(aluminum)	2x35M(aluminum)	81	57	68
TTDS 12 BFE	-150	1/2x4(copper)	2x25(copper)			
TTDS 21FE	50-240	1x16M(aluminum) 1x4(copper)	1x35M(aluminum) 1x25(copper)	81	57	68
TTDS 22FE	50-240	1/2x16M(aluminum) 1/2x4(copper)	2x35M(aluminum) 2x25(copper)	81	57	68

IP3.1-3.4 HTD Insulation Piercing Connector



IPC. HTD series insulation piercing connector 1 kV

Model	Applicable voltage (kV)	Main line (mm2)	Branch line (mm2)	Bolt number	Mainly application
IPC3.1	1	95-16	25-10	1	The connection of main circuitries, the connection of main circuitry and outdoor branch circuitry, the connections of main circuitry and electric-appliance and street lamps
IPC3.2	1	95-70	95-70	1	
IPC3.3	1	185-120	25-26	1	
IPC3.4	1	185-70	185-70	1	
HTD121F	1	AL-CU	16-50	1	The connection of main circuitry and electric-appliance and street lamps
HTD201F	1	95-70	95-70	1	
HTD281F	1	185-120	25-10	1	
HTD282F	1	185-120	25-10	1	
HTD451F	1	185-120	185-70	1	

TTDSR(N) Insulation Piercing Connector



Model	Main line (mm ²)	Branch line (mm ²)	Max current(A)	Bolt		
				A	B	H
TTDSR 240 FGP	95-240	95-240	Gray and white	120	85	103
TTDSR 95 FGP	50-95	25-95	Gray	60	52	78
TTDSR 95 BFGP	50-95	25-95	Blue	60	52	78

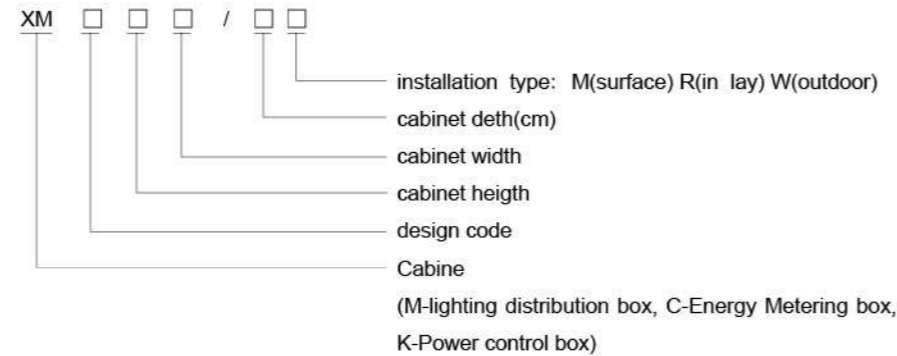
XM Distribution box



◆ Application

XM Cabinet is widely used in lighting distribution systems of power station, transformer station, factory, mine, hotels, apartment, buildings, port, railway station, airport, warehouse, hotels etc. Suit for lighting distribution system of AC single phase 220V, 50Hz three phase 380V, 400A max, used as overload protection, short-circuit protection and circuit switching, this facility can be used by common folks. Product conforms to IEC60349-1, GB7251.1-2005, GB7251.3-2006 standard.

◆ XM means



◆ Ambient requirement

- Ambient temperature no more than +40, no less than -5.
- Weather condition, clear air, humidity ratio no more than 50% at +40 degree, higher humidity is acceptable at low temperature, for example 90% at + 20 degree.
- Sea level no more than 2000 meters.
- Installation type : II.
- Pollution grade : Third
- Any conditions can't meet above mentioned requirement should claim before ordering.

◆ Specifications

Rated Voltage(V)	380V, 220V
Rated Isolation Voltage(V)	450V
Bus Bar Rated Current(A)	630V
Breaking Capacity	10KA
Frequency	50Hz
Protection Ration	IP30

◆ Single Phase/Three Phase meter box

Model No.	Code	Dimension		
		A	B	C
XXC1-301S	one gang three phase	400	300	170
XXC1-301S(T)	one gang three phase with transformer	650	350	170
XXC1-302S	two gang three phase	400	450	170
XXC1-302S(T)	two gang three phase with transformer	650	550	170
XXC1-301DIS(T)	one gang single phase+three phase	650	450	170
XXC1-311S(T)	100 type	650	550	170
XXC1-311DIS(T)	100 type one gang single phase+three phase	650	650	170
XXC1-321S(T)	250 type	650	600	170
XXC1-321DIS(T)	250 type one gang single phase+three phase	650	700	170
XXC1 - 361S(T)	600 type	1000	700	250
XXC1-361DIS(T)	600 type one gang single phase+three phase	1000	850	250

