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中国驰名商标

中国新威特电器集团有限公司

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Mini Circuit Breaker

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Earth Leakage Circuit Breaker

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中国驰名商标



CB

CE



PICC

中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO.,LTD CHINA



Mini Circuit Breaker

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SF156(DZ47) 1P



SF156(DZ47) 2P



SF156(DZ47) 3P



SF156(DZ47) 4P

SF156(DZ47) Series High-breaking Miniature Circuit Breaker

APPLICATION

SF156 (DZ47) series high-breaking miniature circuit breaker is suitable for circuit of AC50/60Hz, rated voltage 230/400V, rated current up to 63A, to be for used protect the circuit against overload or short-circuit, it is widely applied to industrial enterprises, commercial high-rise and residential houses, also can be used to infrequent switch the circuitry under normal condition.

The products comply with GB10963.1-2005 & IEC60898.

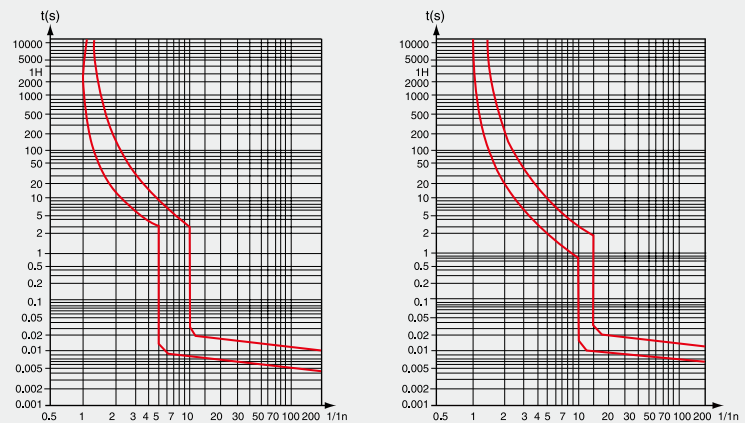
MAIN TECHNICAL PARAMETERS

Main technical parameters of circuit breaker

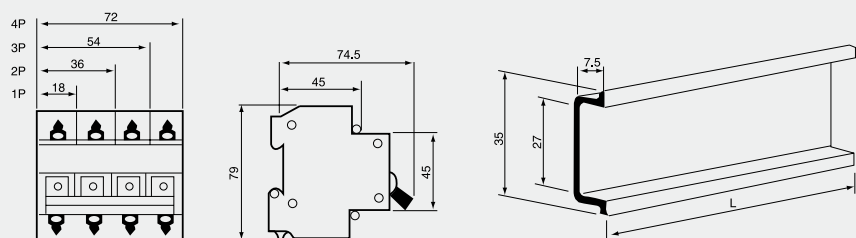
Release type	Rated current (A)	Pole number	Voltage (V)	Breaking capacity (A)	Reference temperature
Type B	1 3 6 10 16	1、2	230/400	6000	$+30^{+5}_{0}\text{ }^{\circ}\text{C}$
	20 25 32 40	3、4	400		
	50 63	1、2	230/400	4500	
		3、4	400		
Type C	1 3 6 10 16	1、2	230/400	6000	
	20 25 32 40	3、4	400		
	50 63	1、2	230/400	4500	
		3、4	400		
Type D	1 3 6 10 16 20	1、2	245/415	4500	
	25 32 40 50 63	3、4	400		

OVER-ELECTROMAGNETIC TRIPPING

CHARACTERISTIC CURVE OF CIRCUIT BREAKER



OUTLINE AND MOUNTING SIZE





SF157(DPN) 1P

SF157(DPN) Series High-breaking Miniature Circuit Breaker

APPLICATION

SF157-32 series miniature circuit breaker (hereinafter referred to as circuit breaker) is suitable for AC50Hz, rated voltage 230V, rated current up to 32A, used to protect the circuit against overload or short-circuit, also can be used to switch the circuitry infrequently. It is widely applied to lighting distribution systems in residential buildings, hotels, apartment houses, emporiums, hospitals, industrial and mining enterprises, etc.

The products comply with GB10963 & IEC60898.

MAIN TECHNICAL PARAMETERS

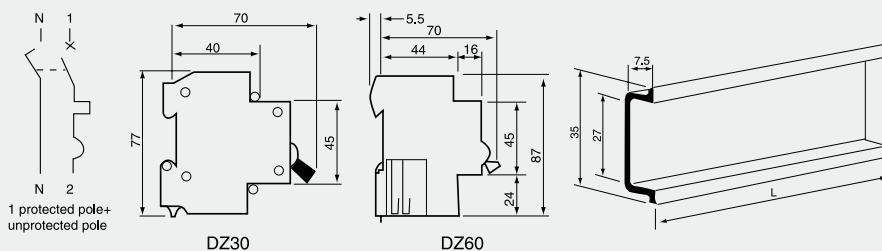
Main technical parameters of circuit breaker

Rated current I_n (A)	Pole number	Rate voltage U_n (V)	Breaking capacity (A)	Type of instantaneous release
3,6,10,16,20,25,32	1+N	230	4500	C、D

Over-current protection characteristics of circuit breaker

NO.	Type of instantaneous release	Test current I_n (A)	Initial state	Test current (A)	Specified time	Prospective result	Remark
1	C、D	≤ 32	Cold state	$1.13 I_n$	$t \geq 1h$	Non-trip	Follow the test item 1, the current rises to the specified value within 5s
2	C、D	≤ 32	Thermal state	$1.45 I_n$	$t < 1h$	Trip	
3	C、D	≤ 32	Cold state	$2.55 I_n$	$1s < t < 60s$	Trip	
4	C	≤ 32	Cold state	$5 I_n$	$t \geq 0.1s$	Non-trip	Colse the auxiliary switch and put through the power supply
5	C	≤ 32	Cold state	$10 I_n$	$t < 0.1s$	Trip	
6	D	≤ 32	Cold state	$10 I_n$	$t \geq 0.1s$	Non-trip	
7	D	≤ 32	Cold state	$14 I_n$	$t < 0.1s$	Trip	

OUTLINE AND MOUNTING SIZE





SF158-100 1P



SF158-100 2P



SF158-100 3P



SF158-100 4P

SF158-100 Series High-breaking Miniature Circuit Breaker

APPLICATION

SF158-100 series high-breaking miniature circuit breaker is suitable for circuit of AC 50/60Hz, rated voltage 230V/400V, rated current up to 100A, used to protect the circuit against overload or short-circuit, also can be applied to make or break the circuitry infrequently.

The products comply with GB14048.2 & IEC60947-2.

MAIN TECHNICAL PARAMETERS

Over-current protection characteristics of circuit breaker

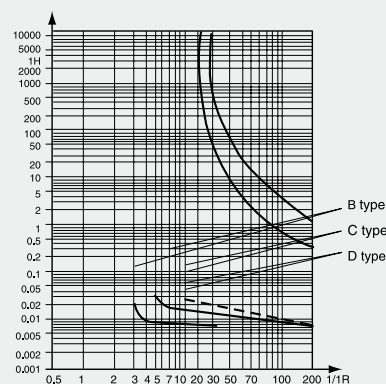
Type of over-current instantaneous release	Rated current (A)	Test current (A)	Initial state	Test time	Prospective result	Remark	Reference temperature
C	≤ 63	1.05In	Cold state	t ≥ 1h	Non-trip	——	+30 ⁺⁵ ₀ °C
D	> 63			t ≥ 2h			
C	≤ 63	1.30In	Thermal state	t < 1h	Trip	The current rises to the specified value within 5s	
D	> 63			t < 2h			
C	Possessive value	3.0In	Cold state	Returnable time > 8s	Non-trip	——	
D		7.2In					
C	Possessive value	5In	Cold state	T ≥ 0.2s	Trip	Colse the auxiliary switch and put through the power supply	
D		10In					
C		10In	Cold state	T < 0.2s	Non-trip		
D		20In					

Note : 1. The return characteristic test can only be carried out during type test;

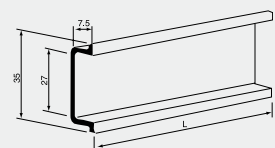
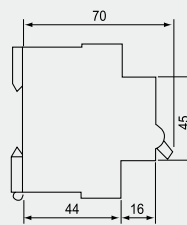
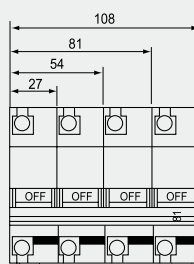
2. Thermal state means the state of putting through conventional non-tripping current for a specified duration.

OVER - ELECTROMAGNETIC TRIPPING

CHARACTERISTIC CURVE OF CIRCUIT BREAKER



OUTLINE AND MOUNTING SIZE





SF65-63

SF65 Series Miniature Circuit Breaker

APPLICATION

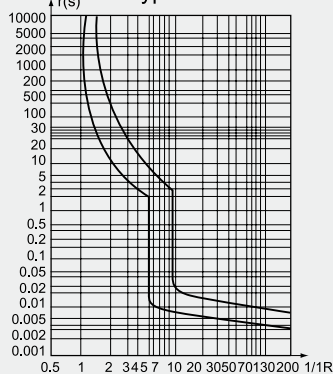
SF65-63 miniature circuit breaker is a kind of current-limiting high-breaking miniature circuit breaker with overload and short-circuit protection functions, it is suitable for circuit of AC50Hz/60Hz, rated working voltage 400V below, rated current 63A below, used to protect the circuit against overload and short-circuit, It also can be used to switch the circuitry infrequently under normal condition. The products are in accordance with IEC60898 and GB10963.

MAIN TECHNICAL PARAMETERS

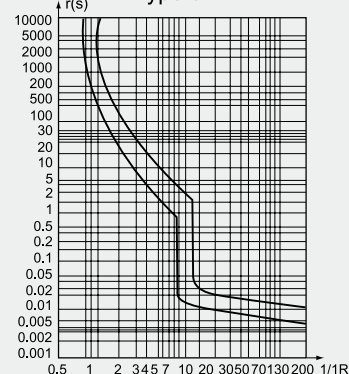
Rated working voltage (V)	Pole number	Rated current (A)	Rated short-circuit breaking capacity prospective current of test line (A)
230	1、2	6, 10, 16, 20, 25, 32, 45, 50, 63	1000(6-40), 6000(50, 63)
230/400	1、2		1000(6-40), 6000(50, 63)
400	2、3、4		1000(6-40), 6000(50, 63)
230	1、2		1000(6-40), 6000(50, 63)
230/400	1、2		1000(6-40), 6000(50, 63)
400	2、3、4		1000(6-40), 6000(50, 63)

OPERATING CHARACTERISTIC CURVE

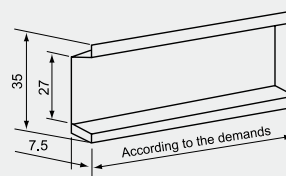
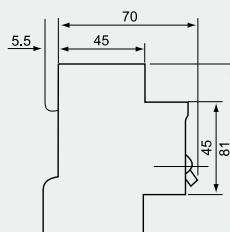
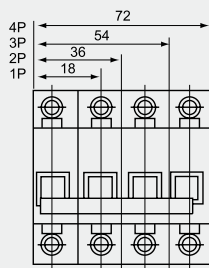
C type 5-10I_n



D type 5-14I_n



OUTLINE AND MOUNTING SIZE





SFL7 1P



SFL7 2P



SFL7 3P

SFL7 Series Miniature Circuit Breaker

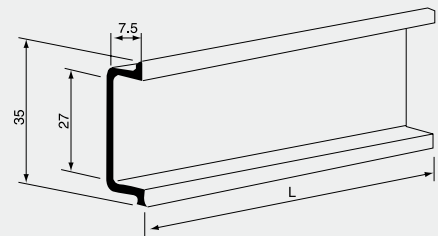
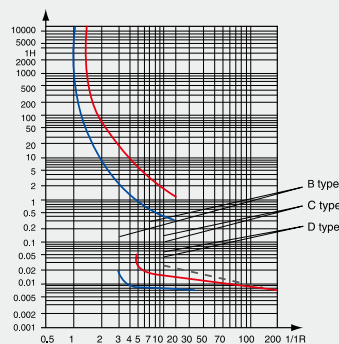
APPLICATION

The products of SFL7 belong to the advanced level of the nineties in the international instead of the older generation of SFL7. They have protective function as shortage as overload, and are used in lighting distribution system in industry, commerce and dwelling, and protecting fractional electric motors. And they also have many merits of high protective grade (up to IP20), high break capacity, reliable sensitive action, convenient, multipole 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.

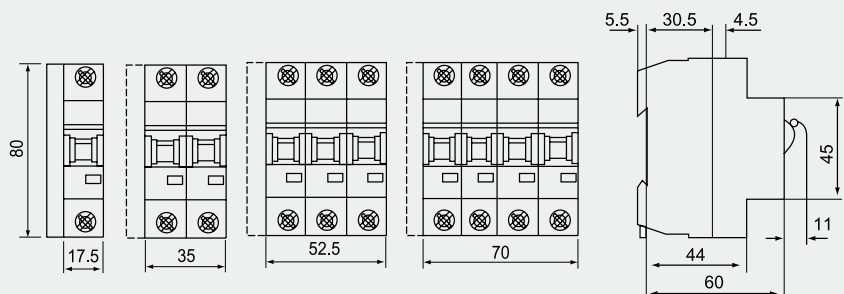
TECHNICAL SPECIFICATION

Poles (P)	1, 2, 3, 4
Rated Voltage (V)	230/400
Mechanical and Electrical life	(O-C) not less then 6000 operations
Rated current (V)	1,2,3,4,6,10, 16,20,25,32,40,50,63
Rated voltage(Un)	AC240/415V
Protective grade	IP20
Breaking capacity	IEC60898
Rated breaking capacity(Icn)	10000A
Endurance	≥ 2500
Circumstance temperature	-5℃ +40℃
Electrical life	≥ 8000 times
Mechanical life	4000 times
Tropical ration	Treatment 2(RH95%, at 55℃)
Protection grade	IP20

OPERATING CHARACTERISTIC CURVE



OUTLINE AND MOUNTING SIZE





SFL7N 1P



SFL7N 2P



SFL7N 3P

SFL7N Series Miniature Circuit Breaker

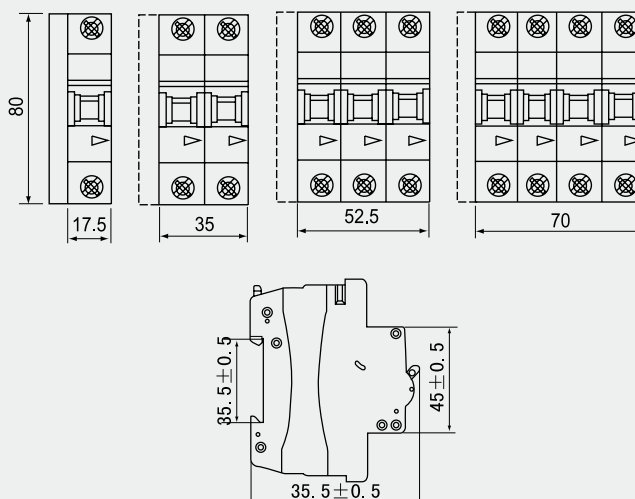
APPLICATION

The products of SFL7N belong to the advanced level of the nineties in the international instead of the older generation of SFL7N. They have protective function as shortage as 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 break 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 electric apparatus and light circuit under the normal condition.

SPECIFICATION

Conforms to standard of electrical		EN60898(IEC898) GB10963-99
Rated current(Ue)		230V/440V; 50/60Hz
Rated breaking capacity		10kA IEC898(0.5~63A)
		15kA IEC947-2(0.5~63A)
Short circuit breaking capacity of DC		Max. 48V(L7N..., 10kA) single pole Max.250V(L7N-DC..., 6kA) single pole
Performance		C,D characteristic curve
Max. fuse that can be connected to		100AgI (>10kA)
Selective grade		3
Working ambient temperature		-5 to +40℃
Enclosed protective grade		IP40(under mounting)
Life	Electrical	Not less of 8000 times switching operation
	Mechanical	Not less of 2000 times switching operation

DIMOUTLINE AND MOUNTING SIZEENSIONS





W40 1P



W40 2P

W40 Series Miniature Circuit Breaker

APPLICATION

W40 series miniature circuit breaker has small size, light weight, novel structure and excellent performance. They are mounted in the illuminating distribution board and used in guesthouses, block of flats, high buildings, squares, airports, railway stations, plants and enterprises etc, in AC circuits 240V(single-pole), up to 415V(3-pole) 50Hz for protection of overload short circuit and for circuit chargeover in lighting system. Breaking capacity is 3kA.

Its indicator can be used circuit indication in illumination and industry system.

SPECIFICATION

Rated current (A)	1,3,6,10,16,20,25,32,40
Rated voltage (V) AC	240/415
Breaking capacity (A)	3000
Mechanical life (times)	10000

L TYPE

Tripping characteristic	Rated tripping current(A)	Thermal trips			Magnetic trip	
		Time of rated tripping current				
L1-L32	1-32	1.13In	1.45In	2.55In	3In	5In
Sarting state		From cold state	From warm state	From cold state	From cold state	From cold state
Tripping time		> 1hr,.	< 1hr,.	1sec.≤t< 60sec.	≥0.1sec.	< 0.1sec.

S101 Screw-type Miniature Circuit Breaker

APPLICATION

S101 screw-type miniature circuit breaker is suitable for the circuit with AC 50 or 60Hz, rated voltage 240V or 415V, rated current up to 25A for overload and short-circuit protection.

TECHNICAL SPECIFICATION

Rated voltage (V)	DC250 AC415
Frequency (Hz)	50/60
Rated current (A)	6, 10, 16, 20, 25
Rated breaking capacity (A)	3000
Poles (P)	1

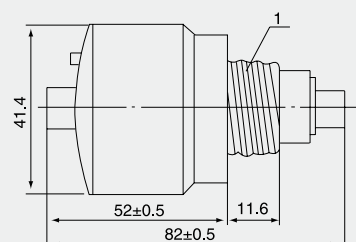
OUTLINE AND MOUNTING SIZE



16A



25A





HS 1P



HS 2P



HS 3P

HS Series Miniature Circuit Breaker

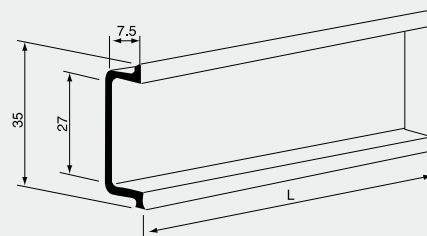
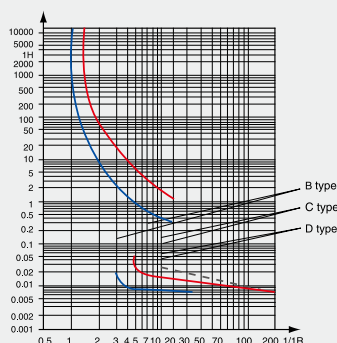
APPLICATION

The products of HS belong to the advanced level of the nineties in the international instead of the older generation of HS. They have protective function as shortage as overload, and are used in lighting distribution system in industry, commerce and dwelling, and protecting 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.

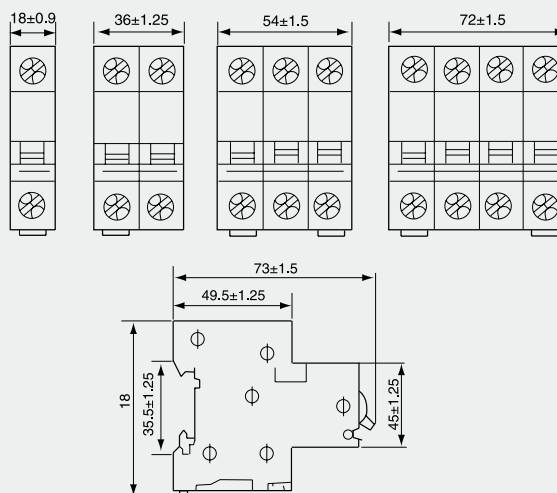
SPECIFICATION

Poles (P)	1, 2, 3
Rated voltage (V)	230/240
Mechanical and electrical life	(O-C) not less than 6000 operations
Rated current (A)	1,2,3,4,6,10,16,20,25,32,40,50,63
Protective grade	IP20
Breaking capacity	(IEC60898) 6kA

OPERATING CHARACTERISTIC CURVE



OUTLINE AND MOUNTING SIZE





SFGN 1P



SFGN 2P



SFGN 3P

SFGN Series Miniature Circuit Breaker

APPLICATION

SFGN series circuit breaker is used in lighting distribution system or motor distribution system for protecting overload and shortcircuit 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 it's installation uses with guide, it's case and body are adopted with high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single pole 240V or two, three, four-poles 415V circuit for overload and shortcircuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. This product conform to GB10963, IEC60898, BS3871.

BREAKING CAPACITY

Standard	Rated current (A)	Poles (P)	Rated voltage (V)	Breaking capacity (A)
BS3871-1 IEC60898	1 to 40	1	240	6000
	50 to 60	2,3,4	415	6000
	50 to 60	1	240	4000
		2,3,4	415	4000
		1	220/240	10000
	1	2,3,4	220/240	20000
IEC157-1	3	1	220/240	8000
		2,3,4	220/240	20000
		2,3,4	380/415	8000
	10 to 40	1	220/240	7000
		2,3,4	220/240	16000
		2,3,4	380/415	8000
	50	1	220/240	6000
		2,3,4	220/240	10000
		2,3,4	380/410	6000
BS3871-1 IEC60898 IEC157-1	60	1	220/240	5000
		2,3,4	220/240	10000
		2,3,4	380/410	5000
	1 to 40	1	240	4000
		2,3,4	415	4000
	1 to 40	1	220/240	6000
		2,3,4	220/240	12000
		2,3,4	380/415	6000
		2,3,4	380/415	6000

SPECIFICATION

Protection span	Overload and short circuit protection
Rated current In	1,2,3,4,10,16,20,25,32,40,50,63A
Rated frequency	50/60Hz
Characteristic	B,C,D characteristic (SFGM type to B,C characteristic)
Pole	1P, 1P+N, 2P, 3P, 3P+N, 4P(SFGN type without 1P+N and 3P+N)
Breaking capacity	AC230V: 6kA AC230/400V: 6kA 4.5kA AC230/400V
Compliance standard	IEC60898
Tripper type	Thermomagnetic type
Electric life	10000 time
Mounting	Track of 35mm of
Width	One 17.8mm
Terminal	Square hole press line type(connect with cables of 25mm ²)



K 1P



K 2P

K Series Miniature Circuit Breaker

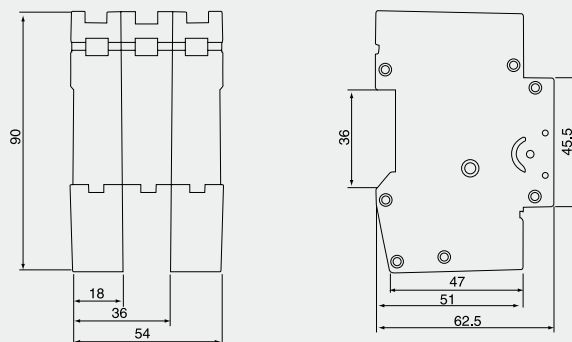
APPLICATION

K series mini circuit breaker is mainly suitable for overload and short circuit protection. It is especially used for illumination and distribution in industry and commerce. It is light in weight, reliable in performance, high breaking capacity, etc. Its frame and parts adopt plastics of high inflammable resistance and shock resistance for long service life. It is mainly used for overload and short circuit protection within the circuit of AC 50/60Hz, rated voltage of single pole up to 240V, two, three or four pole up to 415V. It can also be used for and unfrequent switchover of the circuit and illumination under normal conditions.

SPECIFICATION

Frequency (Hz)	50/60
Rated voltage (V) AC	240/415
Rated breaking capacity (A)	3000
Rated frame current (A)	63
Rated trip current(A)	2,4,6,10,16,20,25,32,40,50,63
Poles (P)	1, 2, 3

OUTLINE AND MOUNTING SIZE



SFG

SFG Series Miniature Circuit Breaker

APPLICATION

To protect the electrical distribution systems and electrical devices against short-circuit (if the defect has been caused by failure or incorrect connection) and to protect the electrical distribution system against overload(if the circuit has not been damaged but an extreme thermal overload occurred which could damage the wiring).

Suitable especially for common installation into switchboards and switching points of low-voltage end circuits. It is designed mostly for alternating current but they can be used also for direct current for which the reduction of short-circuit resistance by approx. about 20% has to be taken into account (because of a higher stress of contacts).

Manufacturing in accordance with a particular european standard EN60898, they are able to comply with any design requirements for arrangement of MCB' s with regard to the selectivity and requirements for individual characteristics B, C and D.

Can be mutually interconnected by means of single-pole to four-poles interconnecting forked and reed(rack) strips.

More advantages for users in latter pages.



MY 1P



MY 2P



MY 3P

MY Series Miniature Circuit Breaker

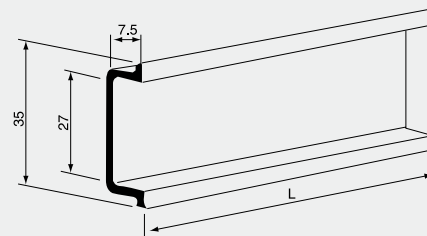
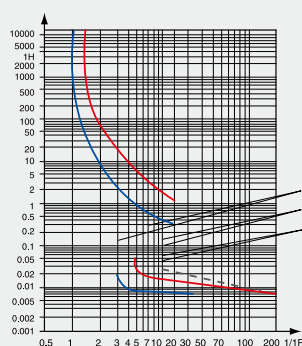
APPLICATION

The products of MY belong to the advanced level of the nineties in the international instead of the older generation of MY. They have protective function for shortage and overload, and used in lighting distribution system in industry, commerce and dwelling, and protecting fractional electric motors. And they also have many merits like high protective grade (up to IP20), high breaking capacity, reliable sensitive action, convenient, multipole 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 and off the electric apparatus and lighting circuit under the normal condition.

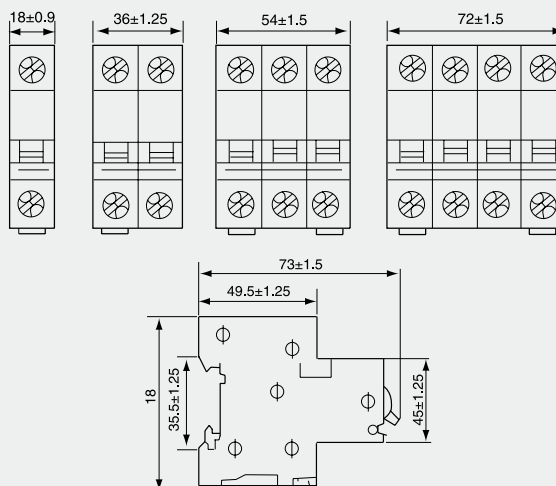
TECHNICAL SPECIFICATION

Poles (P)	1, 2, 3, 4
Rated voltage (V)	230/400
Mechanical and electrical life	(O-C) not less than 6000 operations
Rated current (A)	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
Protective grade	IP20
Breaking capacity	IEC 60898

CHARACTERISTIC CURVE



OUTLINE AND MOUNTING SIZE



TB-5S Series Miniature Circuit Breaker



TB-5S 1P



TB-5S 2P



TB-5S 3P

KYB2 Series Miniature Circuit Breaker



KYB2 1P



KYB2 2P



KYB2 3P

BH-P/TB-5P Series Miniature Circuit Breaker



TB-5P 1P



TB-5P 2P



BH-P 1P



BH-P 2P



BH-P 3P

THQL1' Series Miniature Circuit Breaker



THQL1' 1P



THQL1' 2P



THQL1' 3P

ME Series Miniature Circuit Breaker



ME 1P



ME 2P



ME 3P

BH Series Miniature Circuit Breaker



BH 1P



BH 2P



BH 3P

MCB Series Others Circuit Breaker (New)



M3 1P



AM6



AM6 1P

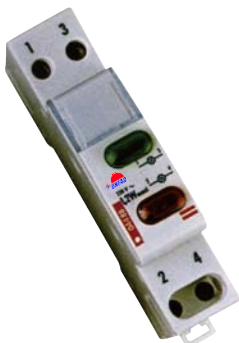


AM6 1P

YIS1 Series Isolating Switch



Indicator



DX series



TSM6 series



MY series



K series

W series



C45D series



66CV313N



66CV313N

66CV Series Weather-protect Isolating Switches

DESCRIPTION

Acting as weather-protect isolating switches for outdoor and wet/dusty environment, Available with switched control

Approval: CE, patented design

TECHNICAL PARAMETER

Conform to IEC 60947-3, BS 1363: P12

Suitable for 13A 3-pin plug complying to BS 1363: Pt1

Rated 13A, 250V AC 50Hz Switches pad lockable in ' OFF ' position

High impact, UV Resistant polycarbonate material degree of protection: IP55 / IP66

CONNECTION

A Max 10 mm² incoming cable, internal cable 1.5 mm² Conduit entry through 1 x M25 threaded entry on top and bottom 2xM25. M20 is possible through reducers provided.

Designation	Rating (A mps)	Pack Qty.	Cat. No.
Double pole with socket outlet IP55	20A with 13A socket outlet	1	66CV313N
Double pole with socket outlet IP66	20A with 13A socket outlet	1	66CV313N
Double pole with socket outlet IP66	20A with 13A socket outlet	1	66CV313N



HPS



HPS



HP Series Weather-protect Isolating Switches

DESCRIPTION

Acting as an weather-protect isolating switch in all types of circuit as defined in the IEE regulation.
Using high impact strength, UV, resistant polycarbonate.
Approval: CE, patented design

TECHNICAL PARAMETER

Conform to IEC 60947-3 Rated Voltage: 240/15VAC Rated Frequency: 50 Hz/60 Hz
Number of Pole : 2 pole, 3 pole & neutral, 4 pole
Degree of protection: IP56/ IP66
Utilization category: AC22A/ AC23A High impact, UV Resistant polycarbonate

CONNECTION

Max: 25mm² connection capacity.
Conduit entry through 2XM25 threaded entries or 2XPG16/2XM25 threaded entries on top and bottom.
Pg21 entries available upon request

Designation	Rating (A mps)	Pack Qty.	Cat. No.
Double Pole	20A	1	HPS220
	35A	1	HPS235
	45A	1	HPS245
	63A	1	HPS263
	20A	1	HPM220
	32A	1	HPM232
	45A	1	HPM245
Triple Pole & neutral	63A	1	HPM263
	20A	1	HPM320
	35A	1	HPS320
	45A	1	HPS335
	63A	1	HPS345
	20A	1	HPS363
	32A	1	HPM320
	45A	1	HPM332
Four Pole	63A	1	HPM345
	20A	1	HPM363
	35A	1	HPS420
	45A	1	HPS435
	63A	1	HPS463
	20A	1	HPM420
	32A	1	HPM432
	45A	1	HPM445
	63A	1	HPM463



中国驰名商标



CB CE



PICC

中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO.,LTD CHINA



Earth Leakage Circuit Breaker

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DZ47LE 1P



DZ47LE 2P



DZ47LE 3P



DZ47LE 4P

DZ47LE Series Earth Leakage Circuit Breaker

APPLICATION

This series of circuit breakers is suitable for AC 50Hz, rated voltage up to 230V/400V, rated current up to 50A, used to protect person against indirect contact, and protect circuitry of buildings or similar line against overload or short-circuit. It also can be used to protect the equipment against fire caused by lasting earth fault due to the non-operation of over-current protection device. In addition, it can be used to switch the circuitry infrequently under normal condition.

The products comply with GB 16917 & IEC 61009.

Main specifications

Divide according to the rated current I_n : 6A, 10A, 16A, 20A, 25A, 32A, 40A and 50A.

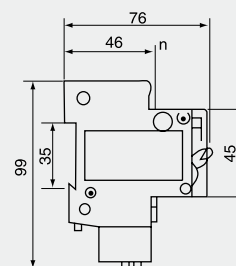
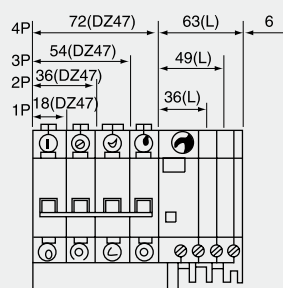
Divide according to the rated residual operating current : 30mA, 50mA, 100mA and 300mA;

Divide according to the pole number and number of current loops : ① single-pole two-wire leakage circuit breaker; ② Two-pole leakage circuit breaker; ③ Three-pole leakage circuit breaker; ④ Three-pole four-pole leakage circuit breaker; ⑤ Four-pole leakage circuit breaker.

TECHNICAL SPECIFICATION

Rated short-circuit making and breaking capacity I_m	6000A ($I_n \leq 32A$)
	4000A (D type or $32A < I_n \leq 50A$)
Rated residual making and breaking capacity $I_{\Delta m}$	2000A
Rated residual non-operating current $I_{\Delta no}$	$0.5I_{\Delta n}$
Break time of residual current operation (see table 1)	
Over-current protection characteristics (see table 2)	
Mechanical and electrical life	2000 times
Characteristic curve of release	

OUTLINE AND MOUNTING SIZE





DZ65L



DZ65L

DZ65L Series Earth Leakage Circuit Breaker

APPLICATION

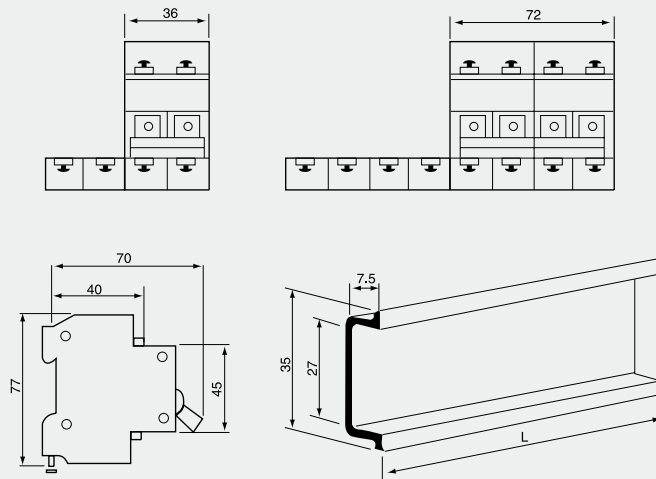
RCD-MCB combinations provide a high level of protection against earth leakage faults by the RCD in addition to the overcurrent and short-circuit protection offered by the MCB.

RCD-MCB combinations are suitable for the protection of circuits with higher safety requirements (i.e. electric apparatus in rooms with high humidity, socket circuits, rooms with bath tubs or shower etc.)

SPECIFICATION

Rated Voltage	240/415V
Rated current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Pole	1P 2P 3P 4P
Rated operating current (mA)	30mA, 50mA, 100mA, 300mA
Rated non-operating ($I_{\Delta N}$)	$0.51 \Delta n$
Tripping curve	C type D type

OUTLINE AND MOUNTING SIZE





SF157LE

SF157LE Series Earth Leakage Circuit Breaker

APPLICATION

SF157LE-32 series leakage circuit breaker (hereinafter referred to as circuit breaker) is suitable for line of AC50Hz, rated voltage up to 230V, rated current 32A, used to protect person against electric shock, and protect equipment against electric leakage. It also has overload and short-circuit protection functions. In addition, it can be used to switch the circuitry infrequently under normal condition. The products comply with GB16917 & IEC61009.

CLASSIFICATION

1. Refer to table 1 for basic specifications of circuit breaker

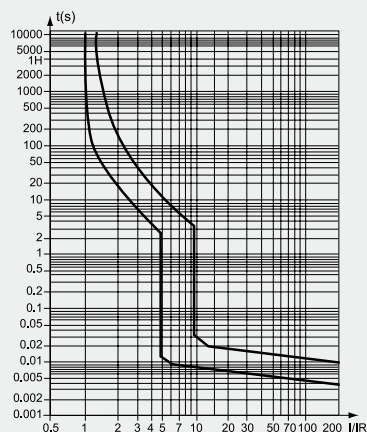
2. Over-current tripping characteristics

Protection characteristics of circuit breaker as reference temperature 30°C~35°C

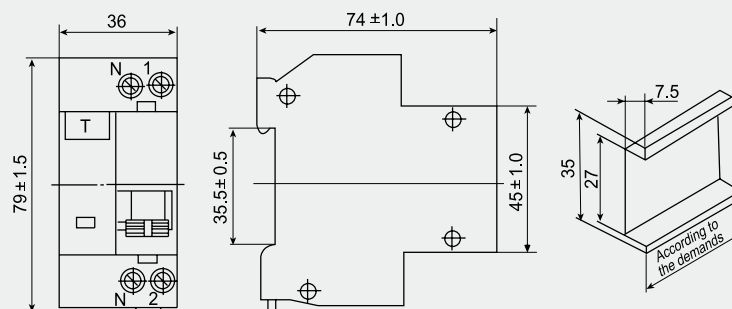
3. Mechanical and electrical life

- Under stipulated conditions, the circuit breaker should be able to withstand 4000 times of operation; and the electrical life is 2000 times.
- Rated residual operating current $I_{\Delta n}$: 30mA; 50mA; 100mA
- Rated residual non-operating current $I_{\Delta no}$: 15mA, 25mA, 50mA
- Max break time at rated residual operating current: 0.1S
- Rated residual making and breaking capacity $I_{\Delta m}$: 2000A

OPERATING CHARACTERISTIC CURVE



OUTLINE AND MOUNTING SIZE





SF158LE-100 D63



SF158LE-100 D63

SF158LE-100 Series Earth Leakage Circuit Breaker

APPLICATION

SF158LE-100 series leakage circuit breaker is suitable for AC 50/60Hz, rated voltage up to 230V/400V, rated current 100A and below, used to protect person against indirect contact, and protect and equipment against overload or short-circuit. It also can be used to switch the circuitry or start the motor infrequently under normal condition.

The products comply with GB14048.2-2001 & IEC60947-2:1997.

MAIN TECHNICAL PARAMETERS

Break time of rated residual current operation (see table 1)

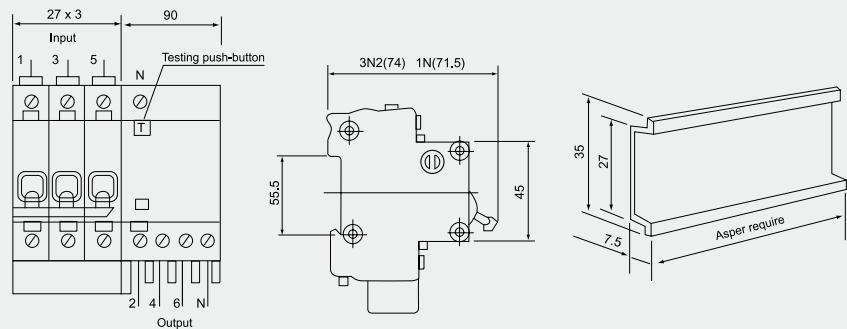
NO.			Ie (A)	IΔn mA	Max break time (S) and min non-driving time (S)				
					IΔn	2IΔn	5IΔn	10IΔn	
General type			63	≥30	0.1	0.06	0.04	0.04	Max break time
Time delay type	Ultimate non-driving time	0.06s		80	0.4	0.2	0.15	0.15	
			100	0.13	0.06	0.05	0.04	Max non-drivingtime	
		0.1s		0.6	0.4	0.3	0.2	Max break time	
				0.23	0.1	0.06	0.05	Min non-driving time	

For $I_{\Delta n} \leq 30$ mA general type residual current operating circuit breaker, 0.25A can be applied to replace $5I_{\Delta n}$, 0.5A can be applied to replace $10I_{\Delta n}$.

Over-current protection characteristics (see table 2)

Rated current (A)	Initial state	Test current	Specified time		Prospective result	Remark
			$I_e=63A$	$I_e>63A$		
63A 80A 100A	Cold state	1.05 I_e	$t \geq 1h$	$t \geq 2h$	Non - trip	
	Proceed following the previous test item	1.30 I_e	$t < 1h$	$t < 2h$	Trip	The current rises to the specified value steadily within 5s
	Cold state	8 I_e	$t \geq 0.2s$		Non - trip	Put through the power supply through closing the auxiliary switch
	Cold state	12 I_e	$t < 0.2s$		Trip	Put through the power supply through closing the auxiliary switch

OUTLINE AND MOUNTING SIZE





F362N 2P



F364N 4P



F362S 2P



F364S 4P

F360 Series Earth Leakage Circuit Breaker

APPLICATION

The item is in accordance with standards of VDE 0664, CEE27 and BS 4293 etc., applying to the circuit of AC 50/60Hz, 240V single phase, 415V three-phase and below it for industrial and mining enterprise, building trade, commerce and dwelling. 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, which 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 won't 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 levant 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.

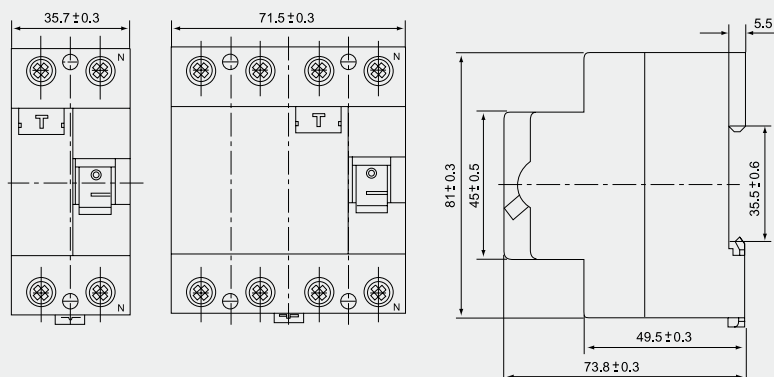
TECHNICAL DATA

Tripping time	100ms (depending on specifications 5X $I_{\Delta n}$ 400ms)
Ambient temperature	-5°C ~ +55°C
Climatic resistance	55°C/28 cycles
Vibration resistance	Minimun 5g 30min, 0~8Hz
Life expectance	At least 10, 000 operations

SPECIFICATIONS

Type	F362	F364
Rated current (A)	16, 25, 32, 40, 63	25, 32, 40, 63, 100
Leakage acting current (mA)	10, 30, 100, 300	30, 100, 300
Range of break-off	0.5~1.0 $I_{\Delta n}$	0.5~1.0 $I_{\Delta n}$
Rated voltage	240V(220V)	240V/415V(220V/380V)

OUTLINE AND MOUNTING SIZE





ID 2P (new)



ID 4P (new)

ID(New) Series Residual Current Circuit Breaker

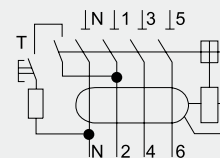
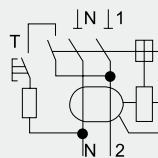
CONSTRUCTION AND FEATURE

- Applicable to terminal and pin/fork type busbar connection
- Contact position indication
- High short-circuit current withstand capacity
- Products protection against earth fault/leakage current and function of isolation
- Fire resistant plastic parts endures abnormal heating and strong impact
- Equipped with finger protected connection terminals
- Automatically disconnect the circuit when earth fault/leakage current occurs and exceeds the rated sensitivity
- Independent of power supply and line voltage, and free from external interference, voltage fluctuation

TECHNICAL DATA

- Pole No. : 2,4
- Rated current (A): 25, 40, 63
- Rated voltage: 50/60Hz
- Rated frequency: 50/60Hz
- Mode: electro-magnetic type, electronic type
- Residual current characteristics: A, AC
- Rated making and breaking capacity: 630A
- Rated residual operating current $I_{\Delta n}$ (mA): 10, 30, 100, 300, 500
- Rated residual non operating current $I_{\Delta no}$: $0.5I_{\Delta n}$
- Rated conditional short-circuit current I_{nc} : 6000A
- Rated conditional residual short-circuit Current $I_{\Delta c}$: 6000A
- Tripping duration: instantaneous tripping $\leq 0.1s$
- Residual tripping current range: $0.5I_{\Delta n} \sim I_{\Delta n}$
- Electro-mechanical endurance: 4000 cycles
- Connection capacity: Rigid conductor $25mm^2$
- Connection terminal:
 - Screw terminal
 - Pillar terminal with clamp
- Fastening torque: 2.0Nm
- Installation:
 - On symmetrical DIN rail 35mm
 - Panel mounting

WIRING DIAGRAM





NFIN 2P 25A



NFIN 2P 40A



NFIN 4P 25A



NFIN 4P 40A

NFIN Series Earth Leakage Circuit Breaker

APPLICATION

The Residual Current Device (RCD) NFIN is in conformity with the standards of IEC 1008, VDE 0664, 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.

NFIN RCD is mainly suitable for using in varieties of plants, enterprises, buildings, constructions, commerce, hotels and families, it can be used in circuits up to single phase 240V, three-phase 415V, 50 or 60Hz.

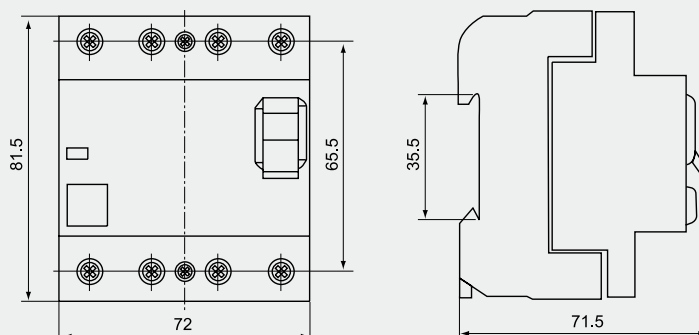
SPECIFICATIONS

Type	NFIN25	NFIN40	NFIN63	NFIN100
Rated current I _n (A)	25	40	63	100
Rated operating current for earth leakage I _{Δn} (A)	0.03, 0.1, 0.3, 0.5		0.1, 0.3, 0.5	
Rated non-operating current for earth leakage I _{Δn} (A)	0.5I _{Δn}			
Voltage U _n (A)	240(220) 415(380)			
Poles (P)	2, 4			

MAIN TECHNICAL DATA

Operating time (second)	$I_{\Delta n}$ 0.2	$2I_{\Delta n}$ 0.1	0.25A(or $5I_{\Delta n}$) 0.04
Limited value of non-operating current for balance load or unbalance load		$2I_n$	
In minimum value of rated making and breaking capacity	$I_n=25$ 200	$I_n=40$ 300	$I_n=63$ 400
Rated conditional short circuit current I_{nc} (A)	1500	2000	3000
Endurance (times)	4000		

OUTLINE AND MOUNTING SIZE





FIN 25A 100mA



FIN 25A 30mA



FIN 63A 100mA



FIN 63A 30mA

FIN Series Earth Leakage Circuit Breaker

APPLICATION

The FIN ELCB is in conformity with the standards of IEC61008, VDE 0664, CEE27 and BS 4293.

It can cut off the fault circuit immediately on the occasion of shock hazard or able to avoid the shock hazard and fire caused by earth leakage.

FIN ELCB is mainly suitable for using in varieties of plants, enterprises, buildings, constructions, commerce. Hotels and dwelling, it can be used in circuits up to single phase 240V, three-phase 415V, 50 or 60Hz.

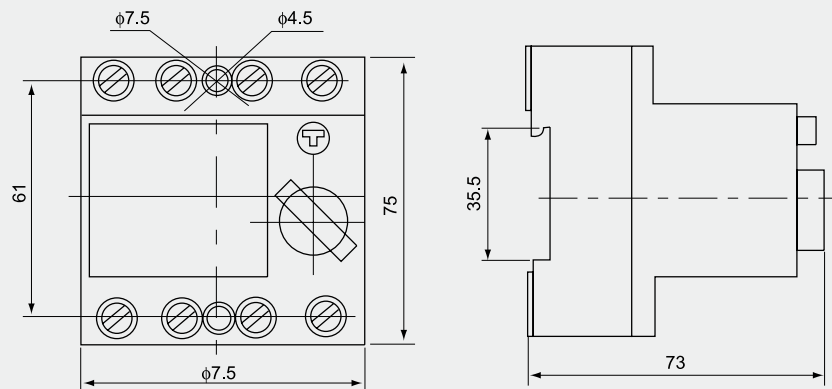
SPECIFICATIONS

Type	FIN25	FIN40	FIN63	FIN100
Rated current I _n (A)	25	40	63	100
Rated operating current for earth leakage I _{Δn} (A)	0.03, 0.1, 0.3, 0.5		0.1, 0.3, 0.5	
Rated non-operating current for earth leakage I _{Δn} (A)	0.5I _{Δn}			
Voltage U _n (A)	240(220) 415(380)			
Poles (P)	2, 4			

MAIN TECHNICAL DATA

Operating time (second)	$I_{\Delta n}$	$2I_{\Delta n}$	$0.25I_{\Delta n}$ (or $5I_{\Delta n}$)
	0.2	0.1	0.04
Limited value of non-operating current for balance load or unbalance load	$2I_n$		
In minimum value of rated making and breaking capacity	$I_n=25$ 200	$I_n=40$ 300	$I_n=63$ 400
Rated conditional short circuit current I_{nc} (A)	1500	2000	3000
Endurance (times)	4000		

OUTLINE AND MOUNTING SIZE





5SM1 2P 40A 30mA



5SM1 2P 63A 30mA



5SM1 4P 40A 30mA



5SM1 4P 63A 30mA

5SM1 Series Earth Leakage Circuit Breaker

APPLICATION

5SM1 series earth leakage breakers apply to in AC circuit of frequency of 50Hz, rated voltage up to 415V, rated current up to 80A. It is mainly used as an indirect contact protection for human. It also can be used to prevent against the fire danger caused by earth fault current owing to equipment insulation damage. When the protective measures of the electric shock are out of work, the RCCB whose rated residual operating current less than 30mA can serve as the supplementary protection for indirect contact, but it can't be used as the sole direct contact protection.

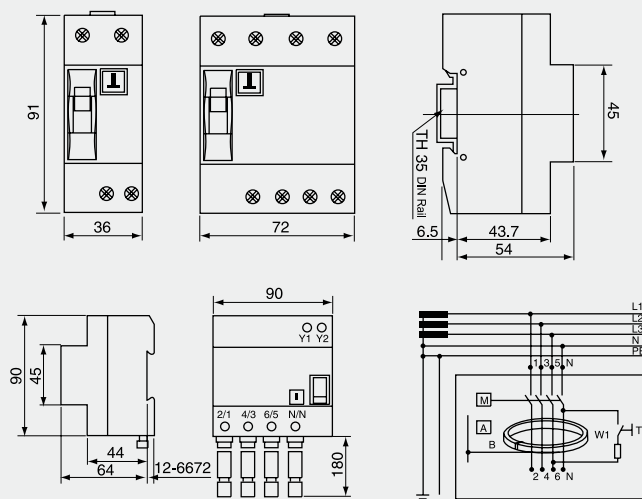
PRODUCT FEATURES

- Series 5SM1 Leakage Breakers are the protector for pure electromagnetic residual current operation.
- The operation function is unrelated to circuit voltage, but operation is reliable.
- It can be reliably operated on the loss of phase or neutral.
- The capacity of resisting electromagnetic interference is strong.

MAIN TECHNICAL DATA

Type	Un (V)	Hz	Im I _{Δm}	Inc I _{Δm}	In A	I _{Δn} mA	I _{Δno} mA	The maximum of break-time (s)				
								I _{Δn}	2I _{Δn}	5I _{Δn}	0.25A	500A
5SM1 2P	240	50, 60	500A (In ≥ 50A 10In) (In > 50A)	6000A	6, 10, 16, 25, 32, 40, 50, 63, 80	30	15	0.2	0.1	-	0.04	0.04
						50	25	0.2	0.1	-	0.04	0.04
						75	40	0.2	0.1	-	0.04	0.04
						100	50	0.2	0.1	0.04	-	0.04
						300	150	0.2	0.1	0.04	0.04	0.04
5SM1 4P	415	50, 60	500A (In ≥ 50A 10In) (In > 50A)	6000A	6, 10, 16, 25, 32, 40, 50, 63, 80	500	250	0.2	0.1	0.04	0.04	0.04
						30	15	0.2	0.1	-	0.04	0.04
						50	25	0.2	0.1	-	0.04	0.04
						75	40	0.2	0.1	-	0.04	0.04
						100	50	0.2	0.1	0.04	-	0.04
						300	150	0.2	0.1	0.04	0.04	0.04
						500	250	0.2	0.1	0.04	0.04	0.04

DIMENSION AND MOUNTING





RC-2P



RC-4P

RC Series Residual Current Circuit Breaker

DESCRIPTIONS

It can open a circuit automatically in the case of an earth leakage fault between phase and earth or neutral greater or equal to 10mA, 100mA, 300mA or 500mA, it is used in domestic, commercial and industrial installation.

EARTH FAULT INDICATOR

Mechanical indicator appearing on the front face of the RCCB is to be differed between tripping and off position yellow-tripped.

All the RCCBs are protected against transient voltages (lighting, line disturbances) and transient currents (from high capacitive circuits) DC sensitive RCCBs or time delay devices are available, please consult us you also have the possibility to install the following accessories: electrical cover kit locking kit.

TECHNICAL DATA

Sensitivity		Poles (P)	Current rating
High sensitivity	10mA, 30mA	2, 4	16A, 25A, 40A, 63A, 80A, 100A
Medium sensitivity	100mA	2, 4	25A, 40A, 63A, 80A, 100A
Low sensitivity	300mA, 500mA	2, 4	25A, 40A, 63A, 80A, 100A
Terminal cover kit	For RCCBs 2 For RCCBs 4		16 to 63A, 80 to 100A
Locking kit			



LD 2P

LD Series Residual Current Circuit Breaker

DESCRIPTION

It can open a circuit automatically in the case of an earth leakage fault between phase and earth or neutral greater or equal to 10mA, 30mA, 100mA, 300mA or 500mA, it is used in domestic, commercial and industrial installations.

SPECIFICATIONS

Standard	IEC61008-1
Rated voltage(Un)	1Pole+N:230/240VAC, 3Pole+N: 400/415VAC
Rated current(In)	10, 16, 20, 25, 32, 40
Rated residual operating current(In)	30, 100, 300, 500
Rated residual non-operating current(I _{Δno})	0.5I _{sΔn}
Breaking capacity(A)	6000
Residual current off-time	≤0.1
Operating temperature	-5°C ~+55°C



RCD1

RCD1 Series Residual Current Circuit Breaker

DESCRIPTIONS

It can open a circuit automatically in the case of an earth leakage fault between phase and earth or neutral greater or equal to 10mA, 100mA, 300mA or 500mA, it is used in domestic, commercial and industrial installation.

EARTH FAULT INDICATOR

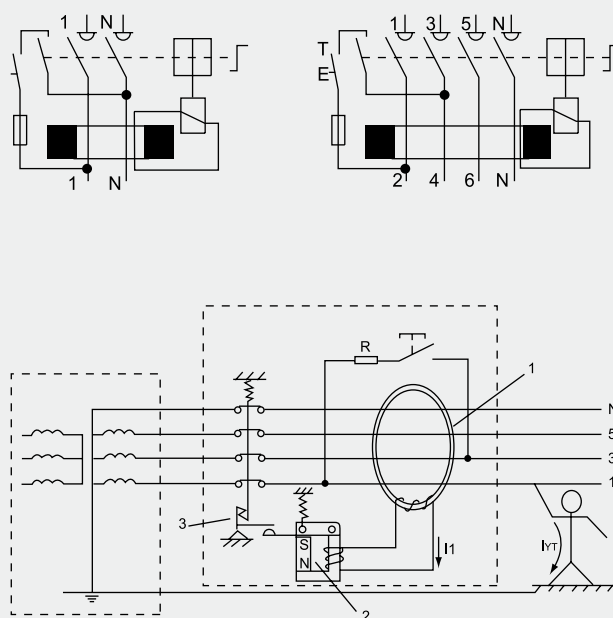
Mechanical indicator appearing on the front face of the RCCB is to be differed between tripping and off position yellow-tripped.

All the RCCBs are protected against transient voltages (lighting, line disturbances) and transient currents (from high capacitive circuits) DC sensitive RCCBs or time delay devices are available, please consult us you also have the possibility to install the following accessories: electrical cover kit locking kit.

TECHNICAL DATA

- Standard: IEC1008, GB16916, BS EN 61008
- Rated voltage (U_n): 2 pole: 230VAC; 4 pole: 400VAC
- Rated current (I_n): 25, 40, 63A
- Rated residual operating current ($I_{\Delta n}$): 30, 100, 300, 500mA
- Rated residual non-operating current ($I_{\Delta no}$): $0.5I_{\Delta n}$
- Residual current off-time: $\geq 0.1s$
- Minimum value of rated making and breaking capacity (I_m): 1kA
- Rated conditional short-circuit current (I_{nc}): $I_n=25, 40A \quad I_{nc}=1500A$
 $I_n=63A \quad I_{nc}=3000A$
- Installation: on symmetrical DIN rail

OPERATION PRINCIPLE FIG





PFIM 2P 40A



PFIM 2P 63A



PFIM 4P 40A



PFIM 4P 63A

PFIM Series Earth Leakage Circuit Breaker

APPLICATION

The Residual Current Device (RCD) PFIM is in conformity with the standards of IEC 1008, VDE 0664, 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.

PFIM RCD is mainly suitable for using in varieties of plants, enterprises, buildings, constructions, commerce, hotels and families, it can be used in circuits up to single phase 240V, three-phase 415V, 50 or 60Hz.

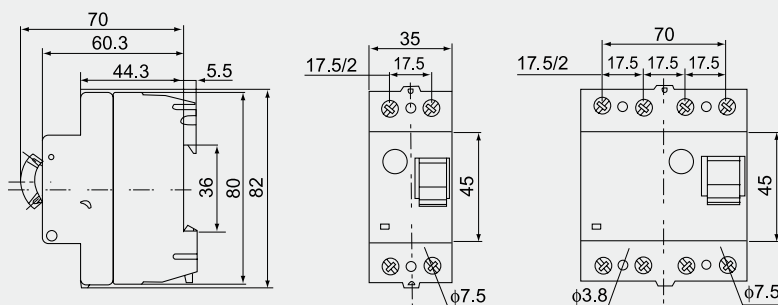
SPECIFICATIONS

Type	PFIM25	PFIM40	PFIM63	PFIM100
Rated current I _n (A)	25	40	63	100
Rated operating current for earth leakage I _{Δn} (A)	0.03, 0.1, 0.3, 0.5		0.1, 0.3, 0.5	
Rated non-operating current for earth leakage I _{Δn} (A)	0.5I _{Δn}			
Voltage U _n (A)	240(220) 415(380)			
Poles (P)	2, 4			

MAIN TECHNICAL DATA

Operating time (second)	$I_{\Delta n}$ 0.2	$2I_{\Delta n}$ 0.1	$0.25A$ (or $5I_{\Delta n}$) 0.04
Limited value of non-operating current for balance load or unbalance load	$2I_n$		
In minimum value of rated making and breaking capacity	$I_n=25$ 200	$I_n=40$ 300	$I_n=63$ 400
Rated conditional short circuit current I_{nc} (A)	1500	2000	3000
Endurance (times)	4000		

OUTLINE AND MOUNTING SIZE

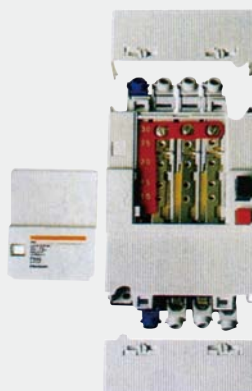




PG230



DDC230



PG430 CKD



DBR230

PG230 PG430 Series Earth Leakage Circuit Breaker

APPLICATION

PG230, PG430 breaker are suitable in AC 50Hz, 250/440V circuit with overload and earth leakage protection. The rated current is adjustable from 10A up to 60A. User can select suitable current to better protection against overload and short circuit. The products comply with NFC 61450.

TECHNICAL SPECIFICATION

Type	PG230	PG430	DBR230	DBR430	DDC230
Poles (P)	2P	4P	2P	4P	2P
Rated voltage (V)	250/440				
Rated current (A)	10, 15, 20, 25, 30, 45, 50, 60A Adjustable		5A-15A, 10-30A, 30-60A Adjustable		
Leakage motion current (mA)	300, 500		300	500	1000
Leakage dead current (mA)	150, 250		150	250	500
Accord with standard	NFC 61450				



NBC230

NBC230 Series Residual Current Circuit Breaker

APPLICATION

NBC230 Breaker are suitable in AC 50Hz, 250/440V circuit with overload and earth leakage protection. The rated current is adjustable from 10A up to 60A. User can select suitable current to better protection against overload and short circuit. The products comply with NFC 61450.

TECHNICAL SPECIFICATION

Type	NBC230	NBC430
Poles (P)	2P	4P
Rated voltage (V)	250/440	
Rated current (A)	10, 15, 20, 25, 30, 45, 50, 60A Adjustable	
Leakage motion current (mA)	300, 500	
Leakage dead current (mA)	150, 250	
Accord with standard	NFC 61450	



E60 4P

E60 Series Residual Current Circuit Breaker

APPLICATION

E60 ELCB is used for the protection against electrical leakage in the circuit of 50Hz/60Hz, rated voltage up to 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 to protect the personal safety and preventing the equipments from the fault resulted by the residual current.



GL018D

GL018 Series Residual Circuit Breaker with Overload Protection

APPLICATION

GL018 series residual circuit breaker with overcurrent protection, it's in accordance with standards of IEC61009, GB16917. 2P switching of ph&N, Phase only protected against overloads and short circuits. it is used in commercial, industrial and domestic electrical distribution systems.

It mustn't be used as the sole means of providing protection against direct contact. The RCBO incorporates a residual current operated electromagnetic release which operates without any auxiliary source of suppl to open a circuit automatically in the case of an earth leakage fault between phase and earth greater than or equal to $I_{\Delta n}$. The RCBO combined MCB&RCCB provides:

Protection against indirect contact

Complementary protection against direct contact

Protection for the installation against insulation faults

TECHNICAL SPECIFICATION

Type	GL018D GL018U
Number of poles	1P+N
Rated current(I_n)	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40A
Rated operating current($I_{\Delta n}$)	15, 30, 100, 300mA
Leakage dead current($I_{\Delta no}$)	$I_{\Delta no} = 0.5I_{\Delta n}$
Rated voltage(U_n)	AC 230(240) V
Residual current off-time	$\leq 0.1s$
Ultimate short-circuit breaking capacity(I_{cn})	10000A
Terminal protection	IP20



SFC01

SFC01 Series Changeover Switch

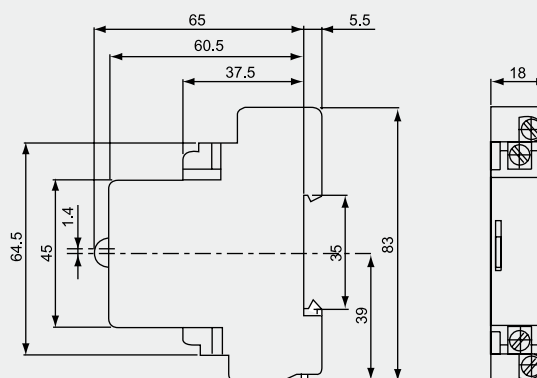
APPLICATION

SFC01 changeover switch is used in the circuit of AC 230V/16A with remote control function. It is CE approved.

TECHNICAL SPECIFICATION

Rated voltage (U_e)	230V
Rated current (I_n)	16A
Rated frequency	50/60Hz

OUTLINE AND MOUNTING SIZE





SFS01

SFS01 Series Staircase Switch

APPLICATION

SFS01 staircase switch(time delay switch) is used in the circuit with AC 50/60Hz, rated voltage 230V, rated current less than 10A to break lighting and electrical appliance automatically, it is mainly used to control the corridor or stairs lighters of dwelling and commercial building, ect. It is CE approved.

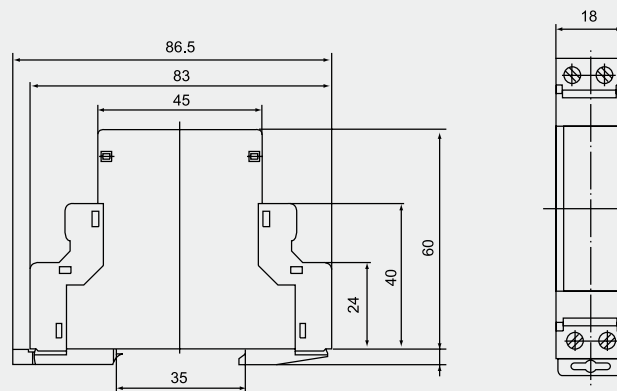
Features

- The switch on way and the range of delay time can be adjusted freely. It is equipped with continuous switch on and time delay break devices. The range of time delay break device can be adjusted between 0.5~12mins.
- It is convenient to use, act automatically and save energy. It will light once we press on button, and it will break automatically after we leave in several minutes.
- One staircase switch can control 100 pcs 20W lamps at the same time.
- Easy mounting. The mounting way is normal rail way mounting same as MCB. It can be mounted in distribution box together with MCB.

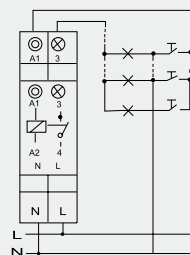
TECHNICAL SPECIFICATION

Rated voltage $U_i(U_e)$	230V
Rated current(I_n)	10A
Delayed time range	0.5~12 MIN
Max power	2000W

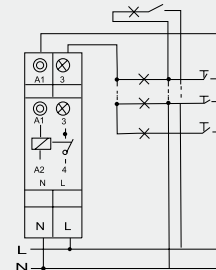
OUTLINE AND MOUNTING SIZE



3 Conductores



4 Conductores





SF7

SF7 Series Residual Current Device

APPLICATION

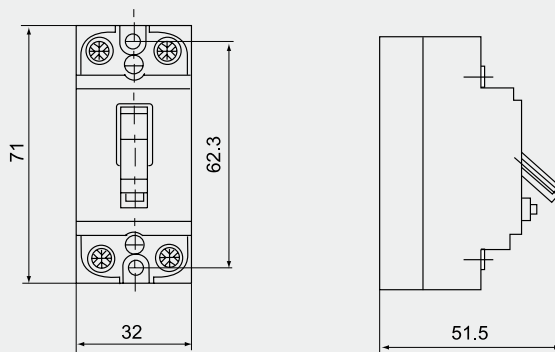
Residual Current Device provide the function of isolation switching and earth leakage protection of electrical circuits. And also provide the indirect protection of the operator's body against the dangerous effects of electric current and provide the protection of the fire caused by the electrical circuit fault.

TECHNICAL SPECIFICATION

Standard	IEC61008, GB16916
Rated voltage (Un)	2 pole: 220/230V AC
Rated current (In)	25, 32A
Rated residual operating current ($I_{\Delta n}$)	10, 15mA
Rated residual non-operation current($I_{\Delta no}$)	$0.5I_{\Delta no} \sim I_{\Delta no}$
Residual current off-time	$\leq 0.3s$
Breaking capacity (A)	6000A
Rated conditional short-circuit current (Inc)	1500A
Endurance	≥ 4000

Pole No.	In (A)	Cat. No.
		$I_{\Delta n}(mA)$
		15
2	30	HW7 21015

OUTLINE AND MOUNTING SIZE





S1-A



S1-C



S1-D



S1-E

S1 Series Surge Protective Device

APPLICATION

S1 Surge Protective Devices (referred as SPD) provides protection against surge current resulted from direct or indirect lightning strike or similar surge voltage. PSD is applicable to circuit with rated voltage up to 400V~, rated frequency 50/60Hz.

The product, using metal oxide varistor, designed to protect both phase and neutral line, is of high electricity resistance under normal operations. In case of surge current or voltage caused by lightning strike or similar, SPD functions quickly to conduct the surge voltage/current to earth and thus effectively prevent the downstream equipments of its protected line from destruction. SPD resumes its high electricity resistance to secure normal operation of the protected power network without presence of the surge voltage.

CONSTRUCTION AND FEATURE

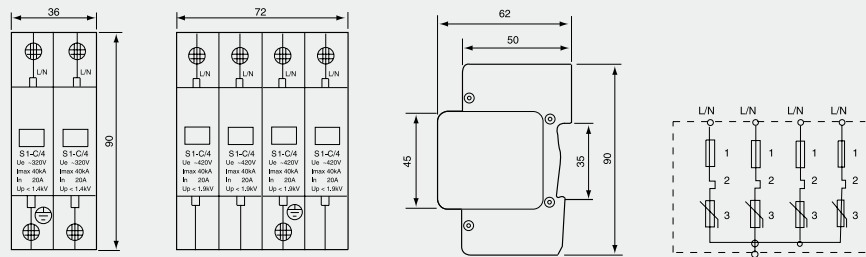
- Plug-in type function unit makes easy replacement
- On-off indicating window
- Quick response less than 25ms

THCNICAL DATA

- Pole No.: 1, 2, 3, 4
- Frequency: 50/60Hz
- Connection terminal:
 - Pillar terminal with clamp
- On-Off indicating window:
 - Green: normal function
 - Red: functionless, immediated replacement required
- Connection capacity: rigid conductor 25mm²

Category	S1-A	S1-B	S1-C	S1-D	S1-E
Rated voltage Un	220	220	220	380	380
Max. continuous operating voltage Uc (V)	320	320	320	420	460
Voltage protection level Up (Kv)	1	1.2	1.5	2.0	2.3
Norminal discharge current In (kA)	5	10	20	30	40
Rated varistor voltage (V)	510 ± 10%	510 ± 10%	510 ± 10%	510 ± 10%	510 ± 10%
Max. discharge current Imax (kA) (8/20us)	10	20	40	60	70
Response time (ms)					
Power withstand (J) (2ms)	300	390	640	1500	1580
Ambient temperature					
Function unit colour	deep yellow	light yellow	light grey	brown	red
Min. terminal connection (mm) ²	phase, neutral 2.5, earth 4				

OVERALL & INSTALLATION DIMENSIONS





S1-B/3



S1-B/4



S1-B/4

S1-B Series Surge Protective Device For Power Distribution System

APPLICATION

S1-B Surge Protective Device can be used in the entrance of the low tension power supply net of 220V, 380V to protect the electrical appliance against damage from the pulse voltage

TECHNICAL DATA

Type		S1-B/1	S1-B/1	S1-B/1	S1-B/2	S1-B/3	S1-B/4
Rating Voltage Un (V~)		75	110	220	220	380	380
DC Voltage U1 mA (v~)		120	200	510	510	630	630
Max. Working	Uc~	75	130	320	320	420	420
	Uc~	100	170	415	415	560	560
Max. available	Is=1 KA	0.24	0.39	0.9	0.9	1.2	1.2
	Is=5 KA	0.3	0.45	1.0	1.0	1.5	1.5
	Is=10 KA	0.35	0.5	1.0	1.0	1.7	1.7
Clamping current 1 sn		5					
Max. Clamping current 1 sn		10					
Response time (ns)		<25					
Energy (2000μ s) (A)		200A					
Temperature		-40~℃ +80℃					
Color	Module	Grey					
	Base	Grey					
Material of case		Nylon					



S1-C/2



S1-C/4



S1-C/2



S1-C/4

S1-C Series Surge Protective Device For Power Distribution System

TECHNICAL PARAMETER

Type		S1-C/1	S1-C/2	S1-C/3	S1-C/4	S1-B/4
Rating Voltage Un (V~)		220	220	380	380	380
DC Voltage U1 mA (v~)		510	510	680	680	510
Max. Working	Uc~	320	320	420	420	320
	Uc~	415	415	560	560	415
Max. available	Is= 1KA	0.9	0.9	1.2	1.2	1.0
	Is= 5KA	1.0	1.0	1.5	1.5	1.1
	Is= 10KA	1.2	1.2	1.7	1.7	1.3
	Is= 15KA	1.3	1.3	1.8	1.8	1.4
	Is= 20KA	1.4	1.4	1.9	1.9	
	Is= 30KA					1.9
	Is= 40KA			2.6	2.6	
	Is= 60KA	1.9	1.9			2.6
Clamping current 1 sn(8/20)		20				30
Max. Clamping current 1 sn		40				60
Response time (ns)		25				
Energy (2000μ s) (A)		200				
Temperature		-40~℃ +80℃				
Color	Module	Grey				Orange
	Base	Grey				
Material of case		Nylon				



中国驰名商标



CB

CE



PICC

中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO., LTD CHINA



Moulded Case Circuit Breaker

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SFM1-63L/3300



SFM1-225L/3300



SFM1-100M/4300

SFM1(CM1) Series Moulded Case Circuit Breaker

APPLICATION

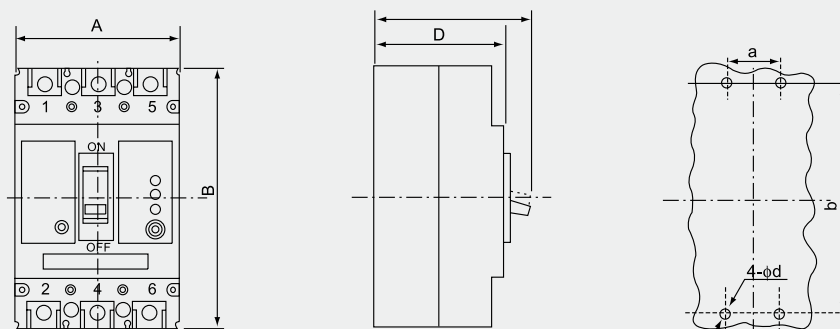
SFM1(CM1)series moulded case circuit breaker(hereinafter referred to as circuit breaker) is suitable for distribution network of AC50Hz, rated working voltage 690V (SFM1-63 is 500V) and below, rated current 1250A and below, used to distribute the electric energy and protect the circuitry and power unit against overload, under-voltage or short-circuit. Circuit breakers whose frame size is 400A below also can be used to protect the motor against overload, under-voltage of short-circuit. In addition, it can be used to switch the circuitry and start the motor infrequently.

The products comply with IEC6094-2, they can be vertically installed or horizontally installed.

MAIN TECHNICAL PARAMETERS

Model of circuit breaker	SFM1-63		SFM1-100			SFM1-225			SFM1-400			SFM1-630			SFM1-800			SFM1-1250								
Pole number	3	4	3	2	4	3	2	4	3	4	3	4	3	4	3	4	3									
Rated current In(A)	6 10 16 20 32 40 50 63		10 16 20 32 40 50 63 80 100			100 125 160 180 200 255			200 225 250 315 350 400			400 500 630			630 700 800			800 1000 1250								
Rated insulation voltage Ui(V)	690		800																							
Rated impulse Withstand voltage Uimp(V)	6000		8000																							
Rated working Voltage Ue(V)	AC400/690																									
Class of breaking capacity	L	M	L	M	H	L	M	H	C	L	M	H	L	M	H	C	L	M	H							
Ultimate short-circuit breaking capacity Icu(kA) (O-t-CO)	400V	25	50	35	50	85	50	35	50	85	50	35	50	70	100	50	45	65	100	65	35	50	70	100	50	80
	690V					20	20		20	20			20			20		20					20			
Service short-circuit breaking capacity Icu (kA)(O-t-CO-t-CO)	400V	18	30	26	30	43	30	26	30	43	30	20	30	40	50	30	34	42	65	42	20	30	40	50	30	50
	690V					10	10		10	10				10			10		10				10			
Flashover distance(mm)	50										100															

OUTLINE AND MOUNTING SIZE





NF50-CS



NF250-CS

NF-CS Series Moulded Case Circuit Breaker

APPLICATION

NF-CS series Moulded Case Circuit Breaker is a kind of economic breaker, has the features as following, such as steady and reliable property, reasonable structure, beautiful style, small volume, etc. This breaker applies to the circuit with AC50/60Hz, rated insulation voltage 660V, max. rated current 1250A as on-off operation, and take effect, it also can be used as unfrequent conversion of line and unfrequency.

SPECIFICATIONS

Type	Pole Number (P)	Rated current (A)	Rated current of frame (A)	Rated ultimate breaking capacity(KA)
NF30-CS	3	3,5,10,15,20,30	30	1.5
NF50-CS	2,3	10,15,20,30,40,50	50	5/10
NF60-CS	3	60	60	5/10
NF100-CS	2,3	60,70,100	100	18/25
NF250-CS	3	125,150,175,200,225,250	250	18/35
NF400-CS	3	250,300,350,400	400	25/50
NF630-CS	3	500,600,630	630	35
NF800-CS	3	600,700,800	800	35
NF1250-CS	3	800,1000,1200,1250	1250	85



NF50-SS



NF250-SS

NF-SS Series Moulded Case Circuit Breaker

APPLICATION

NF-SS series Moulded Case Circuit Breaker is a kind of economic breaker, has the features as following, such as steady and reliable property, reasonable structure, beautiful style, small volume, etc. This breaker applies to the circuit with AC50/60Hz, rated insulation voltage 660V, max. rated current 1250A as on-off operation, and take effect, it also can be used as unfrequent conversion of line and unfrequency.

SPECIFICATIONS

Type	Pole number	Rated current (A)	Breaking capacity(KA)					
			AC(P1/P2)					
			240	380	415	500	600	660
NF30-SS	2	3,5,10,15,20,30	5/5	5/2.5	2.5/1.5	2.5/10	-	-
	3							
NF50-SS	3	10,20,30,40,50	5/10	10/7.5	7.5/5	7.5/5	2.5/1.5	-
NF60-SS	3	10,20,30,40,50,60	5/10	10/7.5	7.5/5	7.5/5	2.5/1.5	-
NF100-SS	3	60,75,100	50/42	30/20	7.5/8	15/10	10/5	5/2.5
	4							
NF250-SS	3	125,150,175,200,225,255	50/42	30/22	25/15	18/15	15/10	5/2.5
	4							
NF400-SS	3	250,300,350,400	85/60	50/35	25/20	35/25	25/18	15/10
	4							
NF630-SS	3	500,600,630	85/60	50/35	50/30	35/25	25/18	15/10
	4							
NF800-SS	3	600,700,800	85/60	50/35	50/30	35/25	25/18	15/10
	4							



NF-50CP



NF-100CP

NF-CP Series Moulded Case Circuit Breaker

APPLICATION

NF-CP moulded case circuit breaker is available in three ranges, standard, hi-break. The performance of the NF-CP range is the result of extensive design & development-utilizing AAD accredited test station. The current limiting action of NF-CP provides low values of let-through energy. Full information for this and time/current characteristic curves are both available on request to provide more information.

SPECIFICATIONS

Type	Poles (P)	Rated current (A)	Testing voltage (V)	(p1/p2) Ica/Ics breaking capacity (kA)			
				230	400	440	500
NF-50CP	3	5, 10, 15, 20, 30, 40, 50	600	5/2	5/2	2.5/1	2.5/1
NF-60CP		60		5/2	5/2	2.5/1	2.5/1
NF-100CP		60, 75, 100		25/13	10/5	10/5	7/4
NF-250CP		125, 150, 175, 200, 225, 250		30/15	18/9	15/8	10/5
NF-400CP		250, 300, 350, 400		50/25	36/18	25/13	15/8



NF-50CW



NF-100CW

NF-CW Series Moulded Case Circuit Breaker

APPLICATION

NF-CW moulded case circuit breaker is available in three ranges, standard, hi-break. The performance of the NF-CW MCCB range is the result of extensive design & development-utilizing AAD accredited test station. The current limiting action of NF-CW MCCBs provides low values of let-through energy. Full information for this and time/current characteristic curves are both available on request to provide more information.

SPECIFICATIONS

Type	Poles (P)	Rated current (A)	Testing voltage (V)	(p1/p2) Ica/Ics breaking capacity (kA)			
				230	400	440	500
NF-50CW	3	5, 10, 15, 20, 30, 40, 50	600	5/2	5/2	2.5/1	2.5/1
NF-60CW		60		5/2	5/2	2.5/1	2.5/1
NF-100CW		60, 75, 100		25/13	10/5	10/5	7/4
NF-250CW		125, 150, 175, 200, 225, 250		30/15	18/9	15/8	10/5
NF-400CW		250, 300, 350, 400		50/25	36/18	25/13	15/8



S-125 3P



S-160 3P



S-250 3P

S Series Moulded Case Circuit Breaker

APPLICATION

S series Moulded case circuit breaker is suitable for circuit AC 50Hz/60Hz, rated voltage up to AC 660V, rated operating current to 630A. It features normal structure, reliable performance, complete accessories & high breaking capacity, used for power distribution and protecting the circuit and electrical equipment against overload and short circuit. It complies with standard of IEC947-2.

TRIPPING CHARACTERISTICS OF MCCB

Rated current of release(A)	Thermodynamic release (ambient temp+40℃)		Operational current of magnetic release(A)
	1.05In(cold state) inoperative time(h)	1.30In(heat state) inoperative time(h)	
$I_n \leq 63$	≥ 1	< 1	$10-50I_n \pm 20\%$
$63 < I_n \leq 250$	≥ 2	< 2	$10I_n \pm 20\%$
$250 < I_n \leq 800$	≥ 2	< 2	$5-10I_n \pm 20\%$

SPECIFICATIONS

Type	Rated current (A)	Rated insulating voltage	Pole number	Rated operating voltage	Service short circuit breaking capacity Icu KA			Ultimate short circuit breaking capacity Icu KA	
					AC380V (400)	AC660V (690)	DC250V	AC380V (400)	AC660V (690)
S-125E	12,5,16,20,25,32	600V	two three four	380V 660V	15	-	-	7.5	-
S-125S	40,50,63,80,100,125				25	-	20	16	-
S-160S	16,20,32,40,50,63,80,100,125,160				35	8	20	18	-
S-160H					50	10	40	25	-
S-250S					35	10	40	18	-
S-250M	100,125,160,180,200,225,250				50	16	40	30	-
S-250H					65	18	40	48	-
S-400S					35	16	40	18	-
S-400M	200,225,250,315,350,400				50	20	40	30	-
S-400H					65	25	40	48	-
S-630S					50	20	40	30	-
S-630M	400,500,630				65	25	40	48	-
S-630H					80	30	40	60	-
S-800S					50	20	40	30	-
S-800M	500,630,700,800				65	25	40	48	-
S-800H					80	30	40	60	-
S-1250S					55	25	40	35	-
S-1250M	630,700,800,1000,1250				70	28	40	50	-
S-1250H					95	35	40	75	-
S-1600S					55	25	40	35	-
S-1600M	800,1000,1250,1600				70	28	40	50	-
S-1600H					95	35	40	75	-



T series

T Series Moulded Case Circuit Breaker

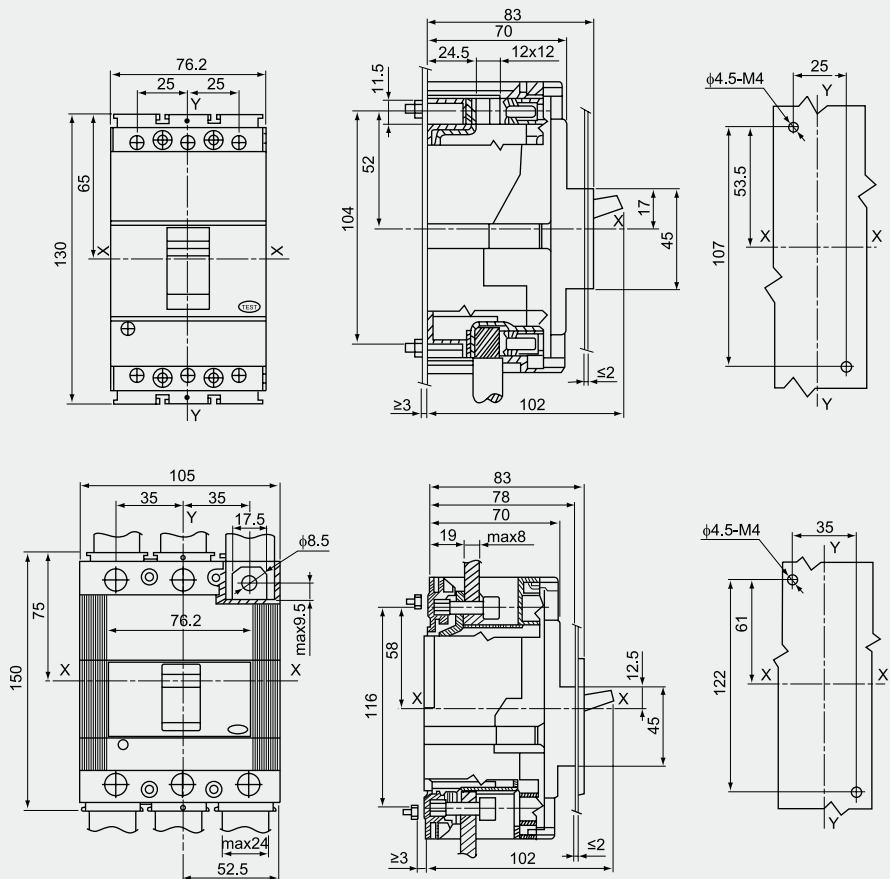
APPLICATION

T Moulded case circuit breaker is suitable for the circuit of AC 50Hz/60Hz, rated voltage up to AC 660V, Rated operating current to 630A. It features normal structure, reliable performance, complete accessories & high break-ing capacity, used for power distribution and protecting the circuit and electrical equipment against overload and short circuit. It complies with standard of IEC947-2.

TRIPPING CHARACTERISTICS OF MCCB

Rated current of release(A)	Thermodynamic release(ambient temp+40℃)		operational current of magnetic release(A)
	1.05In(cold state) inoperative time(h)	1.30In(heat state) inoperative time(h)	
$I_n \leq 63$	≥ 1	< 1	$10-50I_n \pm 20\%$
$63 < I_n \leq 250$	≥ 2	< 2	$10I_n \pm 20\%$
$25 < I_n \leq 800$	≥ 2	< 2	$5-10I_n \pm 20\%$

OUTLINE AND MOUNTING SIZE





JABS 53b



JABS 103b



JABE 225

JABS/JABE Series Moulded Case Circuit Breaker

APPLICATION

JABS/JABE series MCCB is suitable for industrial or commercial power and lighting with AC50/60Hz, rated working voltage up to AC660V/DC250V, rated current up to 630A. It's a kind of economical breaker with the characters 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 also can equip hand-operating apparatus or motor-operating apparatus to control in a remote distance.

MAIN TECHNICAL SPECIFICATIONS

Type	Rated current of trip (In A)	Pole number	Max. rated service voltage(V)		Rated ultimate breaking capacity Icu according to IEC60947-2 AC voltage(V)					DC Voltage(V)	
			AC	DC	500	440	415	380	240	250	125
JABE-30	10,15,20,30	2P 3P	600	250	2.5	2.5	5	5	10	2.5 5	- -
JABS-30	3,5,10,15,20,30	2P 3P	600	250	2.5	7.5	10	14	25	5 10	- -
JABE-50	3,5,10,15,20,30,40,50	2P 3P	600	250	2.5	5	5	7.5	10	2.5 5	- -
JABS-50	10,15,20,30,40,50	2P 3P	600	250	5 7.5	7.5 10	10	14 18	25 35	5 10	- -
JABE-60	60	2P 3P	600	250	2.5	2.5	5	5	10	5 10	- -
JABS-60	60	2P 3P	600	250	5	18	25	25	35	10 15	- -
JABE-100	15,20,30,40,50,60,75,100	2P 3P	600	250	5	7.5	10	14	25	5 10	- -
JABS-100	10,15,20,30,40,50,60,75,100	3P	600	250	10	14	14	25	50	20	14
JABE-225	125,150,175,200,225	3P	600	250	7.5	10	10	18	35	10	-
JABS-225	125,150,175,200,225	3P	600	250	10	14	25	25	50	20	14
JABE-400	250,300,350,400	3P	600	250	18	18	25	25	35	10	-
JABS-400	250,300,350,400	3P	600	250	22	25	35	35	50	20	14



NS-100 3P



NS-160 3P



NS-630 3P



NS-100-4P

NS Series Moulded Case Circuit Breaker

APPLICATION

NS series moulded case circuit breaker is one of the most advanced type breakers in the world, which adopt 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 protect effect when mouse cage motors non-frequent start, breaking off working and protecting overload, short circuit and lacking voltage.

TRIPPING CHARACTERISTICS OF MCCB

Rated current of release (A)	Thermodynamic release (ambient temp +40℃)		Operational current of magnetic release (A)
	1.05In (cold state) inoperative time (h)	1.30In (heat state) operative time (h)	
$I_n \leq 63$	≥ 1	< 1	$10I_n \pm 20\%$
$63 < I_n \leq 100$	≥ 2	< 2	$10I_n \pm 20\%$
$100 < I_n \leq 630$	≥ 2	< 2	$5-10I_n \pm 20\%$

Rated current of release (A)	Thermodynamic release (ambient temp +40℃)				Operational 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)	
$12.5 \leq I_n \leq 400$	≥ 2	< 2	$\leq 4\text{min}$	$2s < T_p \leq 10s$	$12I_n \pm 20\%$

MAIN TECHNICAL SPECIFICATIONS

Type	Rated current	Poles (A)	Rated insulating voltage (A)	Rated operating voltage (A)	Arcing over distance (mm)	Ultimate short circuit breaker capacity	Servies short circuit breaker capacity	Operating performance (times)	
NS-100D	12.5, 16,	3, 4	950	690	0	18	18	1500	8500
NS-100N	20, 25,					25	25		
NS-100H	32, 40,					70	70		
NS-100L	50, 63, 80, 100					150	150		
NS-160D	16, 20, 25,	3, 4	950	690	0	25	25	1500	7000
NS-160N	32, 40, 50,					36	36		
NS-160H	63, 80,					70	70		
NS-160L	100, 125, 160					150	150		
NS-250D	160, 180,	3, 4	950	690	0	25	25	1000	7000
NS-250N	200, 225,					36	36		
NS-250H	250					70	70		
NS-250L						150	150		
NS-400D	200, 225	3, 4	950	690	0	35	35	1000	4000
NS-400N	250, 300					45	45		
NS-400H	315, 400					70	70		
NS-400L						150	150		
NS-630D	315, 350,	3, 4	950	690	0	35	35	1000	4000
NS-630N	400, 500,					45	45		
NS-630H	600, 630					70	70		
NS-630L						150	150		



SFPX-125



SFPX-250

SFPX Series Moulded Case Circuit Breaker

SPECIFICATIONS

Type		SFPX 125		SFPX 160		SFPX 250	
		F PX-E	F PX	F PX	F PX	F PX-E	F PX
Poles (P)		3-4		3-4		3-4	
Rated current In (A)		16-125		25-250		25-250	
The electrical characteristic satisfies EN60947-2							
Rated working voltage Ue (50-60Hz)		500		690		690	
Rated working voltage Ue=(V)		250		250		250	
Rated insulation voltage Ui=(V)		500		690		690	
Rated impulse voltage Uimp (kV)		6		8		8	
Usage group		A		A		A	
Moulded case switch type		E				H	L
Limited breaking capacity (kA)	230/240V~	22	35	50	60	100	170
	400/415V~	16	25	36	36	70	100
	400V~	10	18	20	30	60	70
	480/500V~	8	12	14	25	40	40
	600V~	-	-	-	20	25	25
	690V~	-	-	-	16	20	20
	250V~	16	25	30	36	40	40
Used breaking capacity Icos (%Icu)		100	50	50	100	75	50
Short-circuit closed capacity (400V~)		32	52.5	75.6	75.6	154	220
Short-time withstand current Icw (kA)							
Life (open, close for a time)	Mechanical	7000		7000		7000	
	Electrical	1000		1000		1000	
Insulation capacity		•		•		•	
Protection group							
Hot-magnetic trip		•		•		•	
Electronic trip							
Take to connect the ground to break							
Down to probe into the function's the							
High choice electronic-trip							
Residual current	Bottom installation	•		•		•	
Protected modules	On the side installation	•					
Outer accessories							
Conntrol form a distance		•		•		•	
Fix type		•		•		•	
Insert type		•		•		•	
Drawer type							
Screw hand handle		•		•		•	
Power conversion system				•		•	
Dimension and weight							
Dimension (L x W x H)(mm)	3 Pole	75.6 x 120 x 74		105 x 200 x 105		105 x 200 x 105	
	4 Pole	101 x 120 x 74		140 x 200 x 105		140 x 200 x 105	
Weight (kg)	3 Pole	1		2.5		2.5	
	4 Pole	1.2		3.7		3.7	



KA125-1P

KA Series Moulded Case Circuit Breaker

APPLICATION

Available in two frame sizes from 25 to 800 amps, loadline series of moulded case circuit breakers provide overload and short-circuit protection for the full range of transformer sizes encountered in normal service. The overload and instantaneous tripping elements, adjustable over a wide range, make these MCCB ideal for many distribution applications.

Loadline AA frame MCCB are available in single pole, three pole, three poles with switched neutral and switch-disconnector versions. Loadline triple pole AM Frame circuit breakers and switch-disconnect or are physically interchangeable with AA breakers for Motor Duty requirements. AA Frame have front adjustable overload and fixed instantaneous tripping elements.

TECHNICAL SPECIFICATION TRIPPING ELEMENTS

Insulation voltage (Ui)	660V AC
Operating voltage (Ue)	415AC
Rated frequency	-50/60Hz
Reference calibration	40 °C (50 °C on request)
Overload front adjustable	0.7-1.0 times rated current
Instantaneous-non-adjustable	AA 25-63A=400A
	AA 80-125A=800A
	AA 160-250A=1600A



SFVL-160

SFVL Series Moulded Case Circuit Breaker

SPECIFICATIONS

Type	Rated current In(A)	Setting current of inverse-time delayed overload Release "L" I _R (A)	Operating current of instantaneous short-circuit release "I" I _i (A)	Standard switching capacity N40/45/50kA at 380/415V AC
SFVL160	20	16-20	300	SFVL1702-1DD33...
	32	25-32	300	SFVL1703-1DD33...
	40	32-40	600	SFVL1704-1DD33...
	50	40-50	600	SFVL1705-1DD33...
	63	50-63	600	SFVL1706-1DD33...
	80	63-80	1000	SFVL1708-1DD33...
	100	80-100	1000	SFVL1710-1DD36...
	125	100-125	1000	SFVL1712-1DD36...
SFVL250	160	125-160	1000	SFVL1716-1DD36...
	200	160-200	1000-2000	SFVL3720-1DD36...
	255	200-250	1200-2500	SFVL3725-1DD36...

Type	Standard switching capacity N40/45/50kA at 380/415V AC	Very high switching capacity L 100kA at 380/415V AC
SFVL160	SFVL1702-2DD36...	
	SFVL1703-2DD36...	
	SFVL1704-2DD36...	
	SFVL1705-1DD33...	
	SFVL1706-1DD33...	
	SFVL1708-2DD36...	
	SFVL1710-2DD36...	
	SFVL1712-2DD36...	
SFVL250	SFVL1716-2DD36...	
	SFVL3720-2DD36...	SFVL3720-2DD36...
	SFVL3725-2DD36...	SFVL3725-2DD36...



3VE1



3VE3

3VE Series Moulded 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 circuit, can also be used for direct start of motor and circuit of unfrequent operation under normal condition.

SPECIFICATIONS

Conforms with IEC 157-1 IEC292-1 GB1497-85

Type	Poles (P)	Rated voltage (V)	The setting range of trip current (A)
3VE1	3	20	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
3VE3	3	32	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
3VE4	3	63	6.3-10, 10-16, 16-25, 2-32, 28-40, 36-50, 45-63, 45-56

Type	Switch capacity (effective value) motor (kW)			Power of controlled motor (kW)			Protective feature			Weight (kg)
	220V	380V	660V	220V	380V	660V	1.05le	1.2le	12le	
3VE1	1.5/0.95	1.5/0.95	1.0/0.95	14	13	1	Not act within 2 hrs	Act within 2 hrs	Split-second-response	0.285
3VE3	10/0.5	10/0.5	3/0.9	16	26	1				0.52
3VE4	20/0.3	20/0.3	5/0.7	32	58	0.6				1.2



3VU1300



3VU1600

3VU Series Moulded 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.

SPECIFICATION

Type	Current setting range (A)	Power of controlled motor (kW)	Rated current(A)
3VU 1300	0.1-0.16		0.16
	0.16-0.24	0.06	0.24
	0.24-0.4	0.09/0.12	0.4
	0.4-0.6	0.12/0.18	0.6
	0.6-1	0.25	1
	1-1.6	0.37/0.55	1.6
	1.6-2.4	0.75	2.4
	2-3.2	1.1	3.2
	2.4-4	1.1/1.5	4
	3.2-5	1.5/2.2	5
	4-6	2.2	6
	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
Type	Current setting range (A)	Power of controlled motor (kW)	Rated current(A)
3VU 1600	1-1.6	0.37/0.55	1.6
	1.6-2.4	0.75	2.4
	2.4-4	1.1/1.5	4
	4-6	2.2	6
	6-10	3/4	10
	10-16	5.5/7.5	16
	16-25	11	25
	22-32	15	32
	28-40	18.5	40
	36-52	22	52
	45-63	-	63



AN+GV2-M



GV2-ME



RM661



RM661

GV-M Series Moulded Protection Circuit Breaker

APPLICATION

GV 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 power circuit, as a full-voltage starter to start and cut off 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.

SPECIFICATION

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	
GV2-M01/RS01	-	-	-	-	-	-	0.1-0.16
GV2-M02/RS02	-	-	-	-	-	-	0.16-0.25
GV2-M03/RS03	-	-	-	-	-	-	0.25-0.4
GV2-M04/RS04	-	-	-	-	-	0.37	0.4-0.63
GV2-M05/RS05	-	-	-	0.37	0.37	0.55	0.63-1
GV2-M06/RS06	-	0.37	-	0.55	0.75	1.1	1-1.6
GV2-M07/RS07	0.37	0.75	0.75	1.1	1.1	1.5	1.6-2.5
GV2-M08/RS08	0.75	1.5	1.5	1.5	2.2	3	2.5-4
GV2-M10/RS10	1.1	2.2	2.2	3	3.7	4	4-6.3
GV2-M14/RS14	2.2	4	4	4	5.5	7.5	6-10
GV2-M16/RS16	3	5.5	5.5	7.5	7.5	9	9-14
GV2-M20/RS20	4	7.5	9	9	9	11	13-18
GV2-M21/RS21	5.5	11	11	11	11	15	17-23
GV2-M22/RS22	5.5	11	11	11	15	18.5	20-25
GV2-M32/RS32	7.5	15	15	15	18.5	26	24-32
GV3-M06	-	0.37	-	0.55	0.75	1.1	1-1.6
GV3-M07	0.37	0.75	1.1	1.1	1.1	1.5	1.6-2.5
GV3-M08	0.75	1.5	1.5	1.5	2.2	3	2.5-4
GV3-M10	1.1	2.2	2.2	3	3.7	4	4-6
GV3-M14	2.2	4	4	4	5.5	7.5	6-10
GV3-M20	4	7.5	7.5	7.5	10	11	10-16
GV3-M25	5.5	11	11	11	15	18.5	16-25
GV3-M40	11	18.5	18.5	22	25	33	15-40
GV3-M63	15	30	33	33	40	55	40-63
GV3-M80	22	40	45	45	55	63	56-80



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SUNFAD ELECTRICAL GROUP CO., LTD CHINA



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CJX2-D09, 12



CJX2-D25, 32



CJX2-D80, 95

CJX2-D Series AC Contactor

APPLICATION

CJX2-D series AC contactor is suitable for using in the circuits up to the rated voltage 660V AC 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 contactor, mechanical-interlocking contactor, star-delta starter. With the thermal relay, it is combined into the electromagnetic starter. The Contactor is produced according to IEC 947-2, VDE 0660 & BS5452.

SPECIFICATION

Type		CJX2-D09	CJX2-D12	CJX2-D18	CJX2-D25	CJX2-D32
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
	440V	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	AC4 x 10 ⁴	20	20-15	20-7	15-7	15-7
	AC3 x 10 ⁶	2	2	2	2	2
Mechanical		20	20	20	20	20
Number of the contact		3P+NO				
		3P+NC				

Type		CJX2-D40	CJX2-D50	CJX2-D65	CJX2-D80	CJX2-D95
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	45
	440V	22	30	37	45	45
	500V	22	30	37	55	55
	660/690V	30	33	37	45	45
Rated heat current (A)		60	80	80	125	125
Electrical life	AC4 x 10 ⁴	10-7	7	7-6	7-5	7-5
	AC3 x 10 ⁶	2	2	1.6	1.6	1.6
Mechanical		20	20	20	10	10
Number of the contact		3P+NC+NO				

Volts (VAC)	24	42	48	110	220/230	230	240	380/400	400	415	440	500	660
50Hz	B5	D5	E5	F5	M5	P5	U5	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	-	-



CJX2N 09



CJX2N 12-18



CJX2N 25-38

CJX2N Series AC Contactor

APPLICATION

CJX2-N series AC contactor is suitable for using in the circuits up to the rated voltage 660V AC 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 contactor, mechanical-interlocking contactor, star-delta starter. With the thermal relay, it is combined into the electromagnetic starter. The contactor is produced according to IEC 947-2, VDE 0660 & BS5452.

SPECIFICATIONS

Rated operation current								
Ie max AC-3 (Ue≤440V)		9A	12A	18A	25A	32A	38A	
Ie AC-1 (0≤60℃)		25A		32A	40A	50A		
Rated operational voltage		690V						
Poles (P)		3	3	4	3	3	4	3
Rated operational power in AC-3	220/240V	2.2KW	3KW	4KW	5.5KW	7.5KW	9KW	
	380/400V	4KW	5.5KW	7.5KW	11KW	15KW	18.5KW	
	415/440V	4KW	5.5KW	9KW	11KW	15KW	18.5KW	
	500V	5.5KW	7.5KW	10KW	15KW	18.5KW	18.5KW	
	660/690V	5.5KW	7.5KW	10KW	15KW	18.5KW	18.5KW	
	1000V	-	-	-	-	-	-	-
Auxiliary contacts		1 N/C and 1 N/O instantaneous incorporated in the contactors, with add-on blocks common to the whole range comprising up to 4 N/C or N/O instantaneous, up to 1 N/O+1 N/C time delay and up to 2 N/O or N/C protected contacts and 2 screen continuity terminals						
Compatible manual/auto thermal overload relays	Class 10A	0.10-10A	0.10-13A	0.10-18A	0.10-32A	0.10-38A	0.10-38A	
	Class 20A	2.5-10A	2.5-13A	2.5-18A	2.5-32A	-	-	
Suppressor modules								
(d.c. and low consumption contactors have built-in suppression as standard)	Varistor	•	•	•	•	•	•	•
	Diode	-	-	•	-	•	-	-
	RC circuit	•	•	•	•	•	•	•
	Bidirectional peak limiting diode	•	•	•	•	•	•	•
Interfaces	Relay	•	•	•	•	•	•	•
	Relay+override function	•	•	•	•	•	•	•
	Solid state	•	•	•	•	•	•	•
Contactor type references	~ or --- 3P	CJX2N-09	CJX2N-12	CJX2N-18	CJX2N-25	CJX2N-32	CJX2N-38	
	~ 4-P	-	CJX2N-12	-	CJX2N-25	-	-	
	- 4P	-	CJX2N-12	-	CJX2N-25	-	-	
Reversing contactor type references	~ 3P	CJX2N-DN09	CJX2N-12	CJX2N-D18	CJX2N-D25	CJX2N-D32	CJX2N-D38	
	- 3P	CJX2N-DN09	CJX2N-12	CJX2N-D18	CJX2N-D25	CJX2N-D32	CJX2N-D38	
	~ 4P	-	CJX2N-12	-	CJX2N-D25	-	-	
	- 4P	-	CJX2N-12	-	CJX2N-D25	-	-	



CJX2N 80, 95



CJX2N 115, 150



CJX2N 170

CJX2N Series AC Contactor

APPLICATION

CJX2-N series AC contactor is suitable for using in the circuits up to the rated voltage 660V AC 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 contactor, mechanical-interlocking contactor, star-delta starter. With the thermal relay, it is combined into the electromagnetic starter. The contactor is produced according to IEC 947-2, VDE 0660 & BS5452.

SPECIFICATIONS

Rated operation current								
Ie max AC-3 (Ue≤440V)		40A	50A	65A	80A	95A	115A	150A
Ie AC-1 (0≤60℃)		60A	80A		125A		200A	
Rated operational voltage		1000V on ~ supply, 690V on supply						
Poles (P)		3	4	3	3	4	3	3
Rated operational power in AC-3	220/240V	11KW	15KW	18.5KW	22KW	25KW	30KW	40KW
	380/400V	18.5KW	22KW	30KW	37KW	45KW	55KW	75KW
	415/440V	22KW	25/30KW	37KW	45KW	45KW	59KW	80KW
	500V	22KW	30KW	37KW	55KW	55KW	75KW	90KW
	660/690V	30KW	33KW	37KW	45KW	45KW	80KW	100KW
	1000V	22KW	30KW	37KW	45KW	45KW	75KW	90KW
Auxiliary contacts		1 N/C and 1 N/O instantaneous incorporated in the contactors, with add-on blocks common to the whole range comprising up to 4 N/C or N/O instantaneous, up to 1 N/O+1 N/C time delay and up to 2 N/O or N/C protected contacts and 2 screen continuity terminals						
Compatible manual/auto thermal overload relays	Class 10A	17-50A	17-70A	17-80A	17-104A	17-104A	60-150A	60-150A
	Class 20A	17-40A	17-65A	17-70A	17-80A		60-150A	60-150A
Suppressor modules								
(d.c. and low consumption contactors have built-in suppression as standard)	Varistor	•	•	•	•	•	•	-
	Diode	•	•	•	•	•	-	-
	RC circuit	•	•	•	•	•	•	•
	Bidirectional peak limiting diode	•	•	•	•	•	-	-
Interfaces	Relay	•	•	•	•	•	•	•
	Relay+override function	•	•	•	•	•	•	•
	Solid state	•	•	•	•	•	•	-
Contactor type references	~ or - 3P	CJX2N-40	CJX2N-50	CJX2N-65	CJX2N-80	CJX2N-95	CJX2N-115	CJX2N-150
	~ 4-P	CJX2N-40	-	CJX2N-65	CJX2N-80	-	CJX2N-115	-
	- 4P	CJX2N-40	-	CJX2N-65	CJX2N-80	-	CJX2N-115	-
Reversing contactor type references	~ 3P	CJX2N-D40	CJX2N-D50	CJX2N-D65	CJX2N-D80	CJX2N-D95	CJX2N-D115	CJX2N-D150
	- 3P	-	-	-	-	-	-	-
	~ 4P	CJX2N-D40	-	CJX2N-D65	CJX2N-D80	-	CJX2N-D115	-
	- 4P	-	-	-	-	-	-	-



LC1-F115



LC1-F150



LC1-F225



LC1-F780

LC1-F Series AC Contactor

APPLICATION

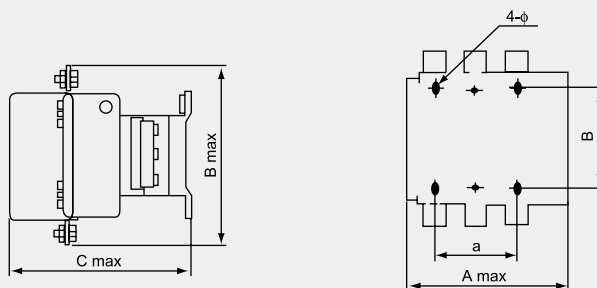
LC1-F series AC contactor is applicable to the circuits up to the rated voltage 1000V AC 50Hz or 60Hz, rated current up to 780A, for long distance breaking circuit and frequently starting or control the motor. It also can be used for the control of distribution circuits of rated current from 220A to 1600A.

SPECIFICATION

Type		LC1-F115	LC1-F150	LC1-F185	LC1-225	LC1-265
Rated operation current (A)	AC-1	115	150	185	225	265
	AC-3	200	250	275	315	350
Standard power ratings of 3-phase motors AC-3 (kW)	220V	30	40	55	63	75
	380V	55	75	90	110	132
	415V	59	80	100	110	140
	440V	59	80	100	110	140
	500V	75	90	110	129	160
	660/690V	80	100	110	129	160
	1000V	65	65	100	100	147

Type		LC1-F330	LC1-F400	LC1-F500	LC1-F630	LC1-F780
Rated operation current (A)	AC-1	330	400	500	630	780
	AC-3	400	500	700	1000	1600
Standard power ratings of 3-phase motors AC-3 (kW)	220/230V	100	110	147	200	220
	380/400V	160	200	250	335	400
	415V	180	200	280	375	425
	440V	200	250	295	400	425
	500V	200	257	355	400	450
	660/690V	200	280	335	450	475
	1000V	160	185	335	450	450

OUTLINE AND MOUNTING SIZE (mm)



Type	Amax	Bmax	Cmax	a	B	ϕ
LC1-F115, F150	165	165	172	80	106/120	6.5
LC1-F185, F250	170	175	182	80	106/120	6.5
LC1-F225	170	198	182	80	106/120	6.5
LC1-F265	202	205	215	96	106/120	6.5
LC1-F330	215	208	220	96	106/120	6.5



LP1-D



LP1-D

LP1-D Series DC Operated AC Contactor

SPECIFICATIONS

Type	Rated working current (A) IeA (AC-3)	Rated heat current 1th (A)	Rated working voltage Ue (A)	Rated insulating voltage Ui (A)	Controlled power (kW)					Electrical life (AC-3) 10 ⁴	Number of the contacts
					220V	380V	415V	440V	660V		
LP1-D09	9	20	380V 660V	660V	2.2	4	4	4	5.5	660V	3P+NO 3P+NC 3P+NO +NC
LP1-D12	12	20			3	5.5	5.5	5.5	7.5		
LP1-D18	18	32			4	7.5	9	9	9		
LP1-D25	25	40			5.5	11	11	11	15		
LP1-D32	32	50			7.5	15	15	15	18.5		
LP1-D40	40	60			11	18.5	22	22	30		
LP1-D50	50	80			15	22	25	30	33		
LP1-D65	65	80			18.5	30	37	37	37		
LP1-D80	80	125			22	37	45	45	45		
LP1-D95	95	125			25	45	45	45	45		



LC2-D 6511



LC2-D 9511

LC2-D/F Series Mechanical Interlocking Contactor

SPECIFICATIONS

Type	Rated current AC-3(A)	Controlled power (kW)				
		220V	380V	415V	440V	660V
LC2-D0901	9	2.2	4	4	4	5.5
LC2-D1201	12	5.5	5.5	5.5	5.5	7.5
LC2-D1801	18	7.5	7.5	9	9	10
LC2-D2501	25	5.5	11	11	11	15
LC2-D3201	32	7.5	15	15	15	18.5
LC2-D4011	40	18.5	18.5	22	22	30
LC2-D5011	50	15	22	25	25	33
LC2-D6311	63	18.5	30	37	37	37
LC2-D8011	80	22	37	45	45	45
LC2-D9511	95	22	45	45	45	41



LC1-K



LC1-K/N



LC1-E



LC1-E/N

LC1-K Series AC Contactor

APPLICATION

LC1-K series AC contactor is suitable for using in the circuit up to the rate and frequent starting,controlling the AC motor.the addition of auxiliary contact group to the contactor, dombed with the proper thermal relay,can act to protect the circuit bound to overload.

SPECIFICATIONS

Type	Rated working current A(380V)	AC-3 use group				Contact data(1)
		Control power KW				
		220V	380/415V	440/500V	660V	
LC1-K06	6	1.5	2.2	3	3	3P+NC 3P+NO
LC1-K09	9	2.2	4	4	4	3P+NC 3P+NO
LC1-K12	12	3	5	5	5	3P+NC 3P+NO

Specification		Type	LC1-K06	LC1-K09	LC1-K12
Use group under AC-3			6	9	12
Rated working current(Ie)A			5	7.5	10
Conventional thermal current(Ith)A			16	20	20
Rated working voltage(Ue)V			380, 660		
Rated insulation voltage(Ui)V			690		
AC-3(6lele)	Electrical life(times)		0.5x10 ⁶		
	Operation frequency h-1		1200		
AC-4(6lele)	Electrical life(times)		10x10 ⁴		
	Operation frequency h-1		300		
Mecnical life			3x10 ⁶		
Auxiliary contact	Conventional thermal current		6A		
	Electrical life (times)	AC-15(360VA)	0.5x10 ⁶		
		DC-13(13W)			
Coil specification	Rated control voltage(Us)		AC: 12, 24, 45, 110, 220, 380 DC: 12, 24, 45, 110, 220		
	Pick-up voltage		AC:0.85~1.1Us DC:0.85~1.1Us		
	Releasing Voltage		AC:0.1~0.75Us DC:0.2~0.75Us		
	Coil power VA	Pick-up	40		
		Pick-up	4		
	Consumption		1.2W		
	Pick-up time		6~18ms		
	Releasing time		5~23ms		
	Power factor		Making0.8 Breaking0.3		



LA1-D11 (NEW)



LA1-D22 (NEW)



LA1-D11



LA1-D22

LA1-D Series Contactor Blocks

APPLICATION

LA1-D series auxiliary contact blocks are installed at the top of LA2-D control relay or LC1-D contactor for expanding the couples of auxiliary contacts points. Owing to adopt the contacting functions of sliding friction, the item can be selfcleaning & ensure the electric circuit to be reliable.

TECHNICAL SPECIFICATION

Type	LA1-D02	LA1-D11	LA1-D20	LA1-D22	LA1-D40	LA1-D04	LA1-D13	LA1-D31
Contact number	2NC	NO+NC	2NO	2NO+2NC	4NO	4NC	1NO+3NC	3NO+1NC

LA2-D Series Contactor Blocks

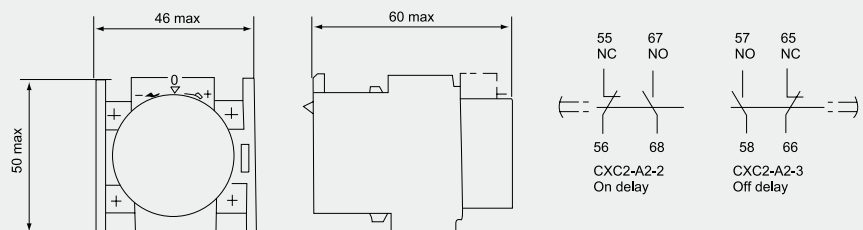
APPLICATION

LA2-D time delay auxiliary contact blocks are combined with LC1-D AC contact & LA1-D auxiliary contact block into be LC3-D star-delta reduced voltage starter to start motor.

TECHNICAL SPECIFICATION

Type	Delay range	Number of the delay contacts
LA2-DT0 LA2-DT2	0.1-3s 0.1-30s	NO+NC
LA2-DT4 LA2-DRS	10-180s 0.1-30s	
LA2-DR4 LA2-DR2	10-180s 0.1-3s	

DIMENSIONS (mm)



LA2-D (New)



LA2-D02



3TF30, 31



3TF32, 33



3TF44, 45



3TF46, 47



3TF40



3TF48

3TF Series AC Contactor

APPLICATION

3TF series AC contactor are 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 IEC 60947, BS 5424 & VDE 0660.

The contactor is a straight motion mechanism having double breaking contacts. The auxiliary contacts are arranged NO.2NC at most, it is employed the flexible locking connection between the contact support and core, there are no arcisolated panel in the $I_e \leq 22A$ contactor. In the $I_n \geq 32A$ contactors. Three are moulded arc-chute with arc-isolated panel, because all contacts are made of high cnonfusibility and against corrosion silver alloy. All series products can be mounted by screw, $I_e \leq 32A$ contactor also by installation rail.

SPECIFICATION

Type	Rated thermal current (A)	Rated operation current (A)		Controllable power for motor (kW)				Type of auxiliary contact
		380V	660V	AC-3		AC-4		
				380V	660V	380V	660V	
3TF40	20	9	7	4	5.5	1.4	2.4	NO NC 1NO+1NC 2NO+2NC
3TF41	20	12	8.5	5.5	7.5	1.9	3.3	
3TF42	30	16	12.5	7.5	11	3.5	6	
3TF43	30	22	16.5	10	15	4	6.6	
3TF44	55	32	24	15	22	7.5	13	
3TF45	55	86	24	18.5	22	9	15.5	
3TF46	80	45	40	22	37	12	20.8	
3TF47	80	63	60	30	55	14	24.3	2NO+2NC 4NO+4NC
3TF48	100	75	60	37	55	17	29.5	
3TF49	100	85	80	45	75	21	36	
3TF50	160	110	95	55	90	27	46.9	
3TF51	160	140	120	75	110	35	60	
3TF52	200	170	160	90	150	38	66	
3TF53	210	205	165	110	160	50	86	
3TF54	300	250	230	132	220	58	100	
3TF55	300	300	260	160	250	66	114	
3TF56	400	400	380	200	335	81	140	
3TF58	630	630	600	335	500	160	278	



3TB41



3TB44

3TB Series AC Contactor

APPLICATION

The contactor is suitable for using in the circuits up to the rated voltage 660V AC 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 IEC60947& VDE0660.

TECHNICAL SPECIFICATION

Type		CJX(3TB40)	CJX(3TB41)	CJX(3TB42)	CJX(3TB43)	CJX(3TB44)
Rated thermal current (A)		22	22	35	35	55
Rated operating current at 380V (A)		9	12	16	22	32
Rated operating current at 660V (A)		7.2	9.5	13.5	13.5	18
The power of controlled motor (kW)	380V	4	5.5	7.5	11	15
	660V	5.5	5.5	11	11	15
Type of auxiliary contact		1NO 1NO+1NC	1NC 2NO+2NC			2NO+2NC

3TH Series AC Contactor

APPLICATION

The auxiliary contactors is the auxiliary suited by controlled circuit which 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.

TECHNICAL SPECIFICATION

Type	Type of contact	
	NO	NC
3TH80 40-0A	4	-
31-0A	3	1
22-0A	2	2
13-0A	1	3
04-0A	-	4
3TH82 80-0A	8	-
71-0A	7	1
62-0A	6	2
53-0A	5	3
44-0A	5	4
	4	

Rated Voltage	Rated operational current(A)		Controllable motor power AC3 (KW)
	Ie=AC11, AC14	DC11	
110V	-	0.9	-
220V	10	0.45	2.2
380V	6	-	4
440V	-	0.25	4
660V	2	-	4



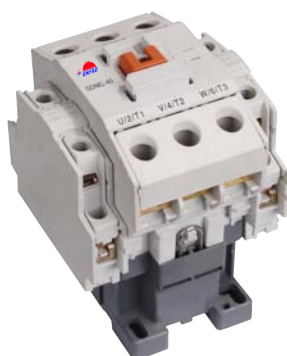
3TH80



3TH82



GDMC 9-22



GDMC 32-40



GDMC 50-85



GDMC 100-125

GDMC Series AC Contactor

TECHNICAL SPECIFICATION

Type				GDMC-9	GDMC-12	GDMC-18	GDMC-22
IEC-60947	AC1 duty			20A	20A	25A	32A
	AC3 duty	200-240V	2.5KW 11A	3.5KW 13A	4.5KW 18A	5.5KW 22A	
		380-440V	4KW 9A	5.5KW 12A	7.5KW 18A	11KW 22A	
		500-550V	4KW 7A	7.5KW 12A	7.5KW 13A	15KW 22A	
		690V	4KW 5A	7.5KW 9A	7.5KW 9A	15KW 18A	
UL	Continuous current (th)			20A	25A	30A	32A
	AC Motor	single phase	115V	0.5HP	0.5HP	1HP	2HP
			230V	1HP	2HP	3HP	3HP
		Three phase	200V	2HP	3HP	5HP	7HP
			230V	2HP	3HP	5HP	7.5HP
			460V	5HP	7.5HP	10HP	10HP
			575V	7.5HP	10HP	15HP	15HP
			Aux. contact		Side mounting	AU-1	
Top mounting	AU-2, AU-4						
Panel installation				Rail & screw			
External dimension (mm) (WxHxD)				44 x 80 x 86.8			

Type				GDMC-32	GDMC-40	GDMC-50	GDMC-65	
IEC-60947	AC1 duty			50A	60A	80A	100A	
	AC3 duty	200-240V	7.5kW 32A	11kW 40A	15kW 55A	18.5kW 65A		
		380-440V	15kW 32A	18.5kW 40A	22kW 50A	30kW 65A		
		500-550V	18.5kW 28A	22kW 32A	30kW 43A	37kW 60A		
		690V	18.5kW 21A	22kW 25A	30kW 33A	37kW 47A		
UL	Continuous current (th)			45A	50A	70A	80A	
	AC Motor	single phase	115V	2HP	3HP	3HP	5HP	
			230V	5HP	5HP	7.5HP	10HP	
		Three phase	200V	7.5HP	10HP	10HP	15HP	
			230V	10HP	10HP	15HP	20HP	
			460V	20HP	25HP	30HP	40HP	
			575V	20HP	25HP	30HP	40HP	
		Aux. contact		Side mounting	AU-1			
Top mounting				AU-2, AU-4				
Panel installation				Rail & screw				
External dimension (mm) (WxHxD)				68 x 82 x 94.6		94 x 123.5 x 117.4		

Type			GDMC-75	GDMC-85	GDMC-100	GDMC-125	
IEC-60947	AC1 duty		110A	135A	150A	150A	
	AC3 duty	200-240V	22kW 75A	25kW 85A	30kW 105A	37kW 125A	
		380-440V	37kW 75A	45kW 85A	55kW 105A	60kW 120A	
		500-550V	45kW 64A	45kW 75A	55kW 85A	60kW 90A	
		690V	45kW 47A	45kW 52A	55kW 65A	60kW 70A	
UL	Continuous current (th)		90A	100A	160A	160A	
	AC Motor	single phase	115V	5HP	7.5HP	7.5HP	10HP
			230V	15HP	15HP	15HP	20HP
		Three phase	200V	20HP	25HP	30HP	40HP
			230V	25HP	30HP	30HP	40HP
			460V	50HP	50HP	60HP	75HP
			575V	50HP	50HP	60HP	75HP
Aux. contact		Side mounting	AU-1		AU-100		
		Top mounting	AU-2, AU-4		-		
Panel installation			Rail & screw		Screw		
External dimension (mm) (WxHxD)			94 x 123.5 x 117.4		100 x 157.4 x 146.5		

S-K Series AC Contactor

APPLICATION

S-K series magnetic AC Contactors are a new generation of contactors. The contactor is suitable for making and breaking remote circuits or 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

Contactor type		S-K10	S-K11	S-K12	S-K18	S-K20	S-K21	S-K25	S-K35	S-K50	S-K65	S-K80	S-K95
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 motor power under AC-3(KW)	at220V	2.2	3	3	4	5.5	5.5	8.5	12	17	19	24	30
	at380V	3.3	4	4	6	10	10	14	20	25	32	40	55
	at660V	3.3	4.5	4.5	5.5	10	10	14	20	30	40	50	60
Coil consumption at rated coil voltage		3.3	3.5	3.5	3.5	5.3	5.3	5.3	5.0	2.8	2.8	2.8	2.8
Rated frequency of operation Ops/hr		1800								1200			
Electric life under AC-3			1x10 ⁶										



S-K10



S-K50

S-N Series AC Contactor

APPLICATION

S-N series AC Contactors are suitable for AC 50Hz or 60Hz, rated voltage up to 660V, mainly used as putting through long distance, breaking circuit and frequently starting or controlling 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 quirrill-cage motor AC-3								Rated heating current lth(A)
	Rated power(KW)				Rated operating current(A)				
	220V-240V	380V-440V	550V	660V	220V-240V	380V-440V	550V	660V	
S-N10	2.5	4.0	4.0	4.0	11	9	7	5	20
S-N11	3.5	5.5	5.5	5.5	13	12	9	7	20
S-N12	3.5	5.5	5.5	5.5	13	12	9	7	20
S-N20	5.5	11	11	7.5	22	22	17	9	32
S-N21	5.5	11	11	7.5	22	22	17	9	32
S-N25	8.5	14	14	14	30	30	12	12	40
S-N35	12	20	20	20	40	40	17	17	40



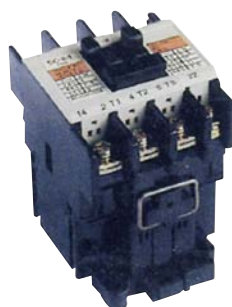
S-N10



S-N35



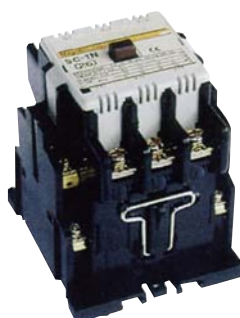
SC-03



SC-04



SC-04-1



SC-3N

SC Series AC Contactor

APPLICATION

SC AC contactor is suitable for using in the circuits in the circuits voltage up 660V 50Hz or 60Hz, rated current up to 150A, for making & breaking, and for frequent starting & controlling the motor. The product has the features of small volume, light weight, low power consumption, high efficiency, safely, reliability etc. It also can be combined with contact head group, timer delay block, relay thermal relay accessories, into motor starter etc, multiseries products. It conform with IEC 158 & UEC 337.

SPECIFICATIONS

Type		SC-03	SC-04	SC-05	SC-4-0	SC-4-1	SC-5-1	SC-1N
Max.volume of motor	200-240V	2.5	3.5	3.5	4.5	5.5	5.5	7.5
	380-440V	4	5.5	5.5	7.5	11	11	15
	500-550V	4	5.5	5.5	7.5	11	11	15
	600-660V	4	5.5	5.5	7.5	7.5	7.5	11
Operating current AC3 (A)	200-240V	11	13	13	18	22	22	27
	380-440V	9	12	12	16	22	22	30
	500-550V	7	9	9	13	17	17	24
	600-660V	5	7	7	9	9	9	15
Rated heating current (A)		20	20	20	25	32	32	50
Life of probability (X 10 ⁴)	Standaard	INO	INO	INO INC	INO	INO	INO INC	2NO 2N
	Other	INC	INC	2NC or NC	INC	INC	2NC or NC	4NC 4NC
Aux - contact layout	Electrical	200	200	200	150	200	200	200
	Machanical	1000	1000	1000	1000	1000	1000	1000

Type		SC-2N	SC-2SN	SC-3N	SC-4N	SC-5N	SC-6N
Max.volume of motor	200-240V	11	15	18.5	22	30	37
	380-440V	18	22	30	40	55	60
	500-550V	18	25	37	37	55	60
	600-660V	15	22	30	37	55	60
Operating current AC3 (A)	200-240V	39	52	65	80	105	126
	380-440V	37	48	65	80	105	120
	500-550V	29	38	60	60	85	90
	600-660V	19	26	38	44	64	72
Rated heating current (A)		60	80	100	135	150	150
Life of probability (X 10 ⁴)	Standaard	2NO	2NO	2NO	2NO	2NO	2NO
		2NC	2NC	2NC	2NC	2NC	2NC
	Other	4NO 4NC	4NO 4NC	4NO 4NC	4NO 4NC	4NO 4NC	4NO 4NC
Aux - contact layout	Electrical	300	200	100	100	100	100
	Machanical	1000	500	500	500	500	500



SMC-11



SMC-20

SMC Series AC Contactor

APPLICATION

SMC series AC contactor is suitable for AC 50Hz or 60Hz, voltage up to 500V, current up to 50A, for marking, breaking frequently starting and controlling the AC motor. They are able to assemble building block, auxiliary contactor group, thermal relay and accessories etc, to form multi-function series products.

TECHNICAL SPECIFICATION

Type		SMC-11	SMC-12	SMC-18	SMC-20
Rated thermal current (A)		20	20	25	32
Rated operating motor (A)	380V	9	12	16	22
	680V	5	7	9	9
Power of controllable motor (kW)	330V	4	5.5	7.5	7.5
	660V	4	5.5	7.5	7.5
Rated frequency of operation cycles / hour		180	180	180	180

Type		SMC-25	SMC-35	SMC-50	SMC-65
Rated thermal current (A)		50	60	80	100
Rated operating motor (A)	380V	30	40	50	62
	680V	12	17	26	35
Power of controllable motor (kW)	330V	15	18.5	22	30
	660V	11	15	22	30
Rated frequency of operation cycles / hour		180	180	120	120



CN-11



CN-80

CN Series AC Contactor

APPLICATION

CN series AC contactor is suitable for AC 50Hz or 60Hz, voltage up to 660V, current up to 60A circuit, five models of CN-11, 16, 18, 25, 35 are available. They are able to assemble building block, auxiliary contactor group, thermal relay & accessories etc, to form multifunction series products.

TECHNICAL SPECIFICATION

Type		CN-11	CN-16	CN-18	CN-25
Rated insulated voltage (V)		660V	660V	660V	660V
Rated heat current (A)		25	25	35	50
Capacity of 3 phase squirrel-cage motor AC3 (kW)	220V	3	4	5.5	7.5
	380V	4	5.5	9	15
	350V	5.5	7.5	11	15

Type		CN-35	CN-50	CN-65	CN-80
Rated insulated voltage (V)		660V	660V	660V	660V
Rated heat current (A)		60	80	90	110
Capacity of 3 phase squirrel-cage motor AC3 (kW)	220V	11	18	20	30
	380V	18.5	22	25	45
	350V	22	25	30	40



CJ19-25C



CJ19-32C

CJ19 Series AC Contactor

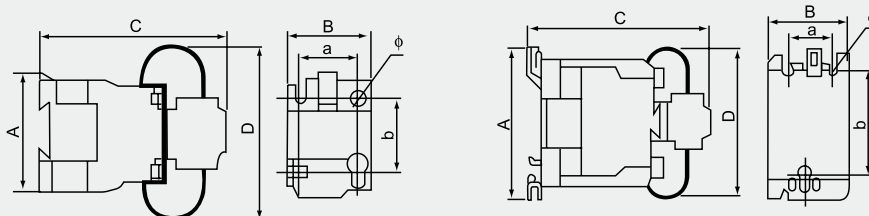
APPLICATION

CJ19 series changeover capacitor contactor is mainly applicable to a power line of AC 50Hz or 60Hz, rated working voltage up to 380V. It is used to put a low voltage parallel connected capacitor in operation or switch it off in a low voltage reactive power compensation device. The contactor is equipped with a surge suppressor, which can effectively reduce the surge current passing through the capacitor at weitching on and suppress the over-voltage at switching off. the product is in conformity with the standards IEC947-4-1.

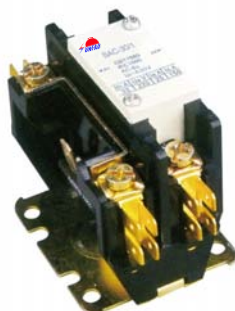
SPECIFICATIONS

Electrical lfiie		CJ19-25C	CJ19-32C	CJ19-43C	CJ19-63C	CJ19-95C
Rating current Ie (380V)A		100	100	29	100	100
Power of controlled capacitor	220/230V	17	23	10	43	63
	380/400V	6	9	20	15	22
Rating insulation voltage(V)		12	18	500	30	40
Rating operational voltage(V)		380				
Restrained surge capacity		20Ie				
Operation range		Pick-up: (85%~110%); Drop-out: (20%~75%)Us				
Coil power(VA)	Start-up	70	110	110	200	200
	Holding	8	11	11	20	20
Control capacity of auxiliary contact		AC-15 360VA;DC-13 33W				
Weight(Kg)		0.44	0.63	0.64	1.4	1.5

OUTLINE AND MOUNTING SIZE



Type	Amax	Bmax	Cmax	Dmax	E	F	Note
CJ19-25C	80	47	124	76	34/35	50/60	Screw mount/35mm rail mount
CJ19-32C	90	58	134	86	40	48	
CJ19-43C	90	58	136	86	40	48	
CJ19-63C	132	79	150				
CJ19-95C	135	87	158				



SAC3-1P



SAC3-2P



SAC3-3P

SAC Series Air Conditionion AC Contactor

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 or/and to switch off the line.

TECHNICAL SPECIFICATION

P/N	AMPS	VOLTS
SAC-2S-30-24V	30	24
SAC-2S-30-120V	30	120
SAC-2S-30-240V	30	240
SAC-2M-40-24V	40	24
SAC-2M-40-120V	40	120
SAC-2M-40-240V	40	240
SAC-3S-30-24V	30	24
SAC-3S-30-120V	30	120
SAC-3S-30-240V	30	240
SAC-3M-40-24V	40	24
SAC-3M-40-120V	40	120
SAC-3M-40-240V	40	240
SAC-2S-50-24V	50	24
SAC-3G-50-120V	50	120
SAC-3G-50-240V	50	240
SAC-3G-60-24V	60	24
SAC-3A-60-120V	60	120
SAC-3A-60-240V	60	240



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中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO.,LTD CHINA



Relay

LR2-D series	68
LR1-D series	69
LRD series	70
3UA series	71
LR9-F series	72
LKH series	73
T series	74
TH-K series	75
General-purpose series	76-78



LR2-D13



LR2-D23



LR2-D33

LR2-D Series 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 - 96A for protecting the phase break when the electric motor is overload. The relay has different mechanism and temperature compensation & can be plugged in KLCI-D series AC contactor. It is the most advanced thermal relay in the nineties in the world.

CHARACTERISTICE

1. Fundamental parameter of the main circuit
 - Rated insulation voltage 660V.
 - Rated working current 25, 36, 93A separately.
 - The regulator seal of rated setting current and setting.
 - Current of the thermal component (see list 1)
2. Auxiliary circuit
 - There is one pair of NO/and N/C contact with electric insulation.
 - Rated insulation voltage 500V.
 - Rated frequency 50-60Hz.
 - Use group, rated working voltage, appoint thermal current and rated current.

SPECIFICATION

Type	Rated working current of thermal relay		Thermal component	
			Rated current (A)	Rated or scale of rated current (A)
LR2-D13	25	LR2-D1301	0.16	0.10-0.16
		LR2-D1302	0.25	0.16-0.25
		LR2-D1303	0.40	0.25-0.40
		LR2-D1304	0.63	0.40-0.63
		LR2-D1305	1.0	0.63-1.0
		LR2-D1306	1.6	1.0-1.6
		LR2-D13X6	2.0	1.25-2.0
		LR2-D1307	2.5	1.6-2.5
		LR2-D1308	4.0	2.5-4.0
		LR2-D1310	6.0	4.0-6.0
		LR2-D1312	8.0	5.5-8.0
		LR2-D1314	10.0	7.0-10.0
		LR2-D1316	13.0	9.0-13.0
		LR2-D1321	18.0	12.0-18.0
		LR2-D1322	25.0	17.0-25.0
LR2-D23	36	LR2-D2353	32	23.0-32.0
		LR2-D2355	36	28.0-36.0
LR2-D33	93	LR2-D3353	32	23.0-32.0
		LR2-D3355	40	30.0-40.0
		LR2-D3357	50	37.0-50.0
		LR2-D3359	65	48.0-65.0
		LR2-D3361	70	55.0-70.0
		LR2-D3363	90	63.0-80.0
		LR2-D3365	93	80.0-93.0



LR1-D09



LR1-D25

LR1-D Series Thermal Relay

APPLICATIONS

LR1-D 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 onto contactor and can also be fixed independently. The product is made in accordance with IEC292-KLR1-D series thermal relay and has kinds of species, 9A, 12A, 25A, 40A, 63A, 80A.

SPECIFICATION

Type	Adjusting range of current (A)	Control power (AC) (KW)					Plug - in contactor
		220V	380V	415V	440V	660V	
LR1-D09301	0.1-0.6						LR1-D09-25
LR1-D09302	0.16-0.25						LR1-D09-25
LR1-D09303	0.25-0.40						LR1-D09-25
LR1-D09304	0.40-0.63						LR1-D09-25
LR1-D09305	0.33-1					0.37	LR1-D09-25
LR1-D09306	1-1.6		0.37		0.55	0.55	LR1-D09-25
LR1-D09307	1.6-2.5	0.37	0.55-0.75	1.1	0.55-0.75	0.7-1.1	LR1-D09-25
LR1-D09308	2.5-4	0.55-0.75	1.1-1.5	1.5	1.5	2.2-3	LR1-D09-25
LR1-D09310	4-6	1.1	2.2	2.2	2.2	4	LR1-D09-25
LR1-D09312	5.5-8	1.5	3	3	3	5.5	LR1-D09-25
LR1-D09314	7-10	2.2	4	4	4	7.5	LR1-D09-25
LR1-D09316	10-13	3	5.5	5.5	5.5	10	LR1-D09-25
LR1-D16321	13-18	4	7.5	9	9	15	LR1-D09-25
LR1-D25322	19-25	5.5	11	1	1	18.5	LR1-D09-25
LR1-D40353	23-32	7.5	15	15	15	22	LR1-D40, 50, 60
LR1-D40355	30-40	10	18.5	2	2	30	LR1-D40, 50, 60
LR1-D63357	38-50	11	22	25	25	37	LR1-D40, 50, 60
LR1-D63359	48-57	15	25	30	30	45	LR1-D40, 50, 60
LR1-D63361	57-66	18.5	30	37	37	55	LR1-D40, 50, 60
LR1-D80363	63-80	22	33-37	33-37	33-37	59-63	LR1-D40, 50, 60



LR-D13



LR-D23



LR-D33

LRD Series Thermal Relay

Differential thermal overload relays for using with fuse						
Compensated relays manual or automatic reset, with relay trip indicator, for AC. or DC.						
Relay setting range				For using with	Reference	Weight
	aM	gG	BS88	contactor LC2 -		
A	A	A	A			
Class 10A (1) with connection by screw clamp terminals						
0.10 ... 0.16	0.25	2	-	D09 ... D38	LRD - 01	0.124
0.16 ... 0.25	0.5	2	-	D09 ... D38	LRD - 02	0.124
0.25 ... 0.40	1	2	-	D09 ... D38	LRD - 03	0.124
0.40 ... 0.63	1	2	-	D09 ... D38	LRD - 04	0.124
0.63 ... 1	2	4	-	D09 ... D38	LRD - 05	0.124
1 ... 1.7	2	4	6	D09 ... D38	LRD - 06	0.124
1.6 ... 2.5	4	6	10	D09 ... D38	LRD - 07	0.124
2.5 ... 4	6	10	16	D09 ... D38	LRD - 08	0.124
4 ... 6	8	16	16	D09 ... D38	LRD - 10	0.124
5.5 ... 8	12	20	20	D09 ... D38	LRD - 12	0.124
7 ... 10	12	20	20	D09 ... D38	LRD - 14	0.124
9 ... 13	16	25	25	D12 ... D38	LRD - 16	0.124
12 ... 18	20	235	32	D18 ... D38	LRD - 21	0.124
16 ... 24	25	50	50	D25 ... D38	LRD - 22	0.124
23 ... 32	40	63	63	D25 ... D38	LRD - 32	0.124
30 ... 38	50	80	80	D32 and D38	LRD - 35	0.124
17 ... 25	25	50	50	D40 ... D90	LRD - 322	0.510
23 ... 32	40	63	63	D40 ... D90	LRD - 3353	0.510
30 ... 40	40	100	080	D40 ... D90	LRD - 3355	0.510
37 ... 50	63	100	100	D40 ... D90	LRD - 3357	0.510
48 ... 65	80	100	100	D50 ... D90	LRD - 3359	0.510
55 ... 70	80	125	125	D50 ... D90	LRD - 3362	0.510
63 ... 80	100	125	15	D65 and D96	LRD - 3363	0.510
80 ... 104	125	160	160	D80 and D96	LRD - 3365	0.510
80 ... 104	125	200	160	D115 and D150	LRD - 4365	0.900
95 ... 120	160	200	200	D115 and D150	LRD - 4367	0.900
110 ... 140	100	250	200	D150	LRD - 4369	0.900
80 ... 104	125	160	160	(2)	LRD - 33656	1.000
95 ... 120	160	200	200	(2)	LRD - 33676	1.000
110 ... 140		250	200	(2)	LRD - 33696	1.000
Class 10A (1) with spring terminal connections (for direct mounting on the contactor only)						
0.10 ... 0.16	0.25	2	-	D09 ... D38	LRD - 013	0.140
0.16 ... 0.25	0.5	2	-	D09 ... D38	LRD - 023	0.140
0.25 ... 0.40	1	2	-	D09 ... D38	LRD - 033	0.140
0.40 ... 0.63	1	2	-	D09 ... D38	LRD - 043	0.140
0.63 ... 1	2	4	-	D09 ... D38	LRD - 053	0.140
1 ... 1.7	2	4	6	D09 ... D38	LRD - 063	0.140
1.6 ... 2.5	4	6	10	D09 ... D38	LRD - 073	0.140
2.5 ... 4	6	10	6	D09 ... D38	LRD - 083	0.140
4 ... 6	8	16	16	D09 ... D38	LRD - 103	0.140
5.5 ... 8	12	20	20	D09 ... D38	LRD - 123	0.140
7 ... 10	12	20	20	D09 ... D38	LRD - 143	0.140
9 ... 13	16	25	25	D12 ... D38	LRD - 163	0.140
12 ... 18	20	235	32	D18 ... D38	LRD - 213	0.140
16 ... 24	25	50	50	D25 ... D38	LRD - 223	0.140
Thermal overload relays for using with unbalanced loads						
Class 10A (1) with connection by screw clamp terminals						
Change the prefix in the referenes above from LRD (except LRD - 4...) to LRD - D.						
Example: LRD - 01 becomes LR3 - D01.						
Thermal overload relays for using on 1000V supplies						
Class 10A (1) with connection by screw clamp terminals						
(1)Standard IEC947 - 1 specifies a tripping time for 7.2 times the setting current I _n : class 10A : between 2 and 10 seconds.						
(2) Independent mounting.						



3UA59



3UA62, 3UA66, 3UA68

3UA Series Thermal Relay

APPLICATIONS

3UA series thermal relay is suitable for using in the power system with AC 50Hz, rated operation voltage 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 relays have the reset push - button for breaking NC contacts and the operating indication and free trip characteristics. The products also can be supplied with protecting case to ensure safety. The products can be plugged in the contactor and installed independently or mounted by rail.

SPECIFICATION

Type	Rated operating current (A)	Rated insulation voltage (V)	Current setting range (A)	
3UA50	12.5	660	0.1~0.16	0.16~0.25
			0.25~0.4	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
3UA52	25	660	0.1~0.16	0.16~0.25
			0.25~0.4	0.4~0.63
			1.63~1	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
3UA54	32	660	10~16	12.5~20
			16~25	20~32
			16~25	20~32
3UA58	80	1000	25~40	32~50
			40~57	50~63
			57~70	63~80
			16~25	20~32
3UA59	63	660	0.1~0.16	0.16~0.25
			0.25~0.4	0.4~0.63
			1.63~1	0.8~1.25
			1~1.6	1.25~2
			11.6~2.5	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
3UA62	180		55~80	63~90
			80~110	90~120
			110~35	120~150
			135~160	150~180
3UA66	400	1000	80~125	125~200
			180~250	200~320
			250~400	
3UA68	630	1000	320~500	400~630



LR9-F53



LR9-F73

LR9-F Series Thermal Relay

APPLICATION

LR9-F thermal overload relays are designed for use with contactors LC1-F115 to LC1-F330. In addition to the protection provided by modeled thermal overload relays LR9-F, they offer the following special features:

- Protection against phase imbalance
- Choice of starting class
- Protection of unbalanced circuits
- Protection of single-phase circuits

SPECIFICATION

Type	Number	Setting range (A)	For contactor
LR9-F53	F5357	30-50	F115-F185
	F5363	48-80	F115-F185
	F5367	60-100	F115-F185
	F5369	90-150	F115-F185
	F5371	132-220	F225-F265
LR9-F73	F7375	200-330	F225-F500
	F7379	300-500	F225-F500
	F7381	380-630	F400-F630



LKH-22



LKH-40



LKH-85

LKH Series Thermal Overload Relay

APPLICATION

The LKH protect the motors overload, locking, open phase (differential)

CHARACTERISTICS

Direct mounting structure

The TOR is mounting directly to the Magnetic Contactors without addition brackets.

(Applied model: LKH-22, 40, 85)

Safety cover

The finger proof safety cover prevent careless touch of electric conductor

(Applied mode: LKH-22, 40, 85)

Separation of power part and operation part

The main circuit and the operation part are separately designed and the operation part is commonly used in LKH-22, 40, 85

Easy operation

TYPES AND RATINGS

Ratings	Type	LKH-22			LKH-40			LKH-85		
		Ranges			Ranges			Ranges		
		Min.	Mid.	Max.	Min.	Mid.	Max.	Min.	Mid.	Max.
Rated current (A)	0.14	0.1	0.14	0.16						
	0.21	0.16	0.21	0.25						
	0.33	0.25	0.33	0.4						
	0.52	0.4	0.52	0.63						
	0.82	0.63	0.82	1						
	1.3	1	1.3	1.6						
	2.1	1.6	2.1	2.5						
	3.3	2.5	3.3	4						
	5	4	5	6	4	5	6			
	6.5	5	6.5	8	5	6.5	8			
	7.5	6	7.5	9	6	7.5	9			
	8.5	7	8.5	10	7	8.5	10	7	8.5	10
	11	9	11	13	9	11	13	9	11	13
	15	12	15	18	12	15	18	12	15	18
	19	16	19	22	16	19	22	16	19	22
	22				18	22	26	18	22	26
	30				24	30	36	24	30	36
	34				28	34	40	28	34	40
	42							34	42	50
	55							45	55	65
	65							54	65	75
	74							63	74	85
Element No.	2 heaters	Standard			Standard			Standard		
	3 heaters	Option			Option			Option		
Aux. contact		1NO 1NC			1NO 1NC			1NO 1NC		
Reset type		Auto/Manual			Auto/Manual			Auto/Manual		
Power consumption		1.8VA/heater			2.0VA/heater			3.5VA/heater		
Dimension (mm) (W x H x D)		44 x 63 x 90			53 x 67 x 90			70 x 73 x 103		
Separate mounting unit		AZ-22H			AZ-40H			AZ-85H		
	3 heaters	GTH-22/3			GTH-40/3			GTH-85/3		
Other model	Differential	GTK-22			GTK-40			GTK-85		
	Delay open	GTH-22/L			GTH-40/L			GTH-85/L		
Applied contactors		GMC-9, 12, 18, 22			GMC-32, 40			GMC-50, 65, 75, 85		
Applied switches		GMS-9, 12, 18, 22			GMS-32, 40			GMS-50, 65, 75, 85		



T-16



T-25



T-45



T-75

T Series Thermal Relay

APPLICATION

The relay is suitable for using in the power circuits rated voltage up to 660V, rated current 500A 50Hz or 60Hz for overload and loss of phase protection or three phase induction motor and often combined with B series AC contactor into magnetic starter.

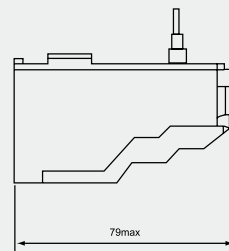
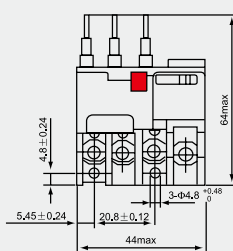
T16 & T25 thermal relays have a friction trip operating mechanism with loss of phase running protection, pullback spring type operating mechanism (jump mechanism) with loss of phase protection for T85 & T45, back jump mechanism for T170 & T105, main circuit with instrument transformer jump mechanism with loss of phase for T250 & T370.

TECHNICAL SPECIFICATION

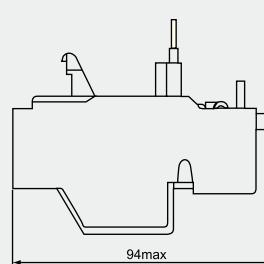
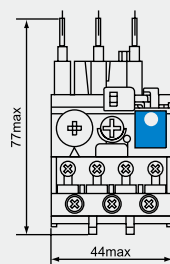
Type	T16	T25	T45	T85
Rated current (A)	16	25	45	85
Thermal element setting range (A)	0.11-17.6	0.17-32	0.28-48	6.0-100
Auxiliary contacts	Number	1NO, 1NC	1NO, 1NC	1NO, 1NC, 1NC
	Rated operating current (A)	220V: 3 380V: 2 500V:1.5	220V: 3 380V: 2 500V:1.5	220V: 3 1.7 380V: 2 1.3 500V:1.5

Type	T105	T170	T250	T370
Rated current (A)	105	170	250	370
Thermal element setting range (A)	27-115	90-200	100-400	100-500
Auxiliary contacts	Number	1NO, 1NC	1NO, 1NC	1NO, 1NC
	Rated operating current (A)	220V: 3 2.5 380V: 2 1.3 500V:1.5 0.8	220V: 3 2.5 380V: 2 1.3 500V:1.5 0.8	220V: 3 1.7 380V: 2 1.3 500V:1.5

OUTLINE AND MOUNTING SIZE



T-16



T-25



TH-K12



TH-K20



TH-K60

TH-K Series Thermal Relay

APPLICATION

The thermal overload relays are suitable for overload protection of AC motor operated on 8-hours duty or uninterrupted duty.

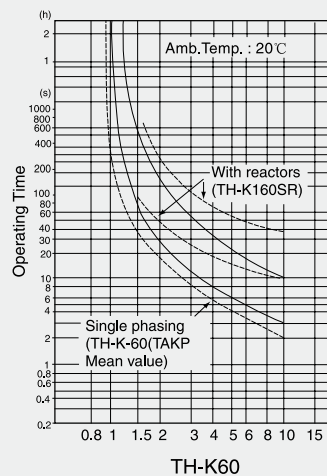
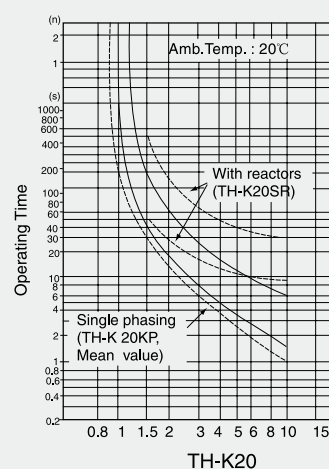
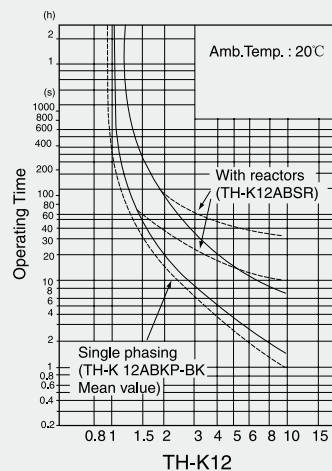
The overload protected AC motor with frequency 50Hz, voltage up to 660V, current up to 40A.

Several functions provided by these relays are phase-failure protection, temperature compensation, ON/OFF indication and manual/automatic reset. The relays comply with IEC 292-1 standard.

TECHNICAL SPECIFICATION

Type	Plug in AC contactor	Rated current of thermal element (A)	Setting current range (A)
TH-K12	S-K10, S-K11 S-K12, S-K18	0.24, 0.35, 0.5, 0.7, 0.9, 1.3, 1.7, 2.1, 2.5, 3.6, 5, 6.6, 9, 11	0.2-0.28, 0.28-0.42, 0.4-0.6, 0.55-0.85, 0.7-1.1, 1-1.6, 1.4-2, 1.7-2.1, 2-3, 2.8-4.4, 4-6, 5.2-8, 7-11, 9-13
TH-K20	S-K20, S-K21 S-K25, S-K35	2.1, 2.5, 3.6, 5, 6.6, 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
TH-K60	S-K50, S-K65 S-K80, S-K95	42, 54	34-50, 43-65

CHARACTERISTIC CURVE



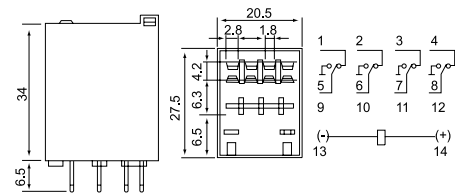
General-purpose Relays

55.14



Terminal layout: 4Z
Contact capacity: 3A 250VAC 3A 30VDC
Contact resistance: $\leq 50\text{m}\Omega$
Insulation resistance: $\geq 100\text{m}\Omega$
Dielectric strength: BOC 1000VAC
BCC 1500VAC

Coil nominal Voltage	DC 6V to 110V AC 6V to 240V
Coil nominal power	DC $\leq 0.9\text{W}$ AC $\leq 0.9\text{VA}$ to 1.2VA
Electrical life	10^5OPS
Mechanical life	10^7OPS
Operating temperature	$-25^\circ\text{C} \sim 55^\circ\text{C}$
Weight	$\leq 35\text{g}$
Mounting methods	Printed-circuit board, Flange, Outlet

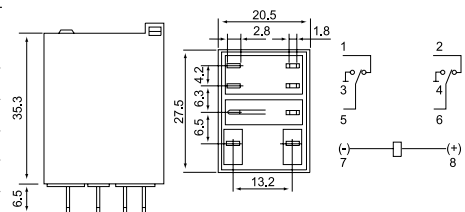


55.12



Terminal layout: 2Z
Contact capacity: 5A 250VAC 5A 30VDC
Contact resistance: $\leq 50\text{m}\Omega$
Insulation resistance: $\geq 100\text{m}\Omega$
Dielectric strength: BOC 1000VAC
BCC 1500VAC

Coil nominal Voltage	DC 6V to 110V AC 6V to 240V
Coil nominal power	DC $\leq 0.9\text{W}$ AC $\leq 0.9\text{VA}$ to 1.2VA
Electrical life	10^5OPS
Mechanical life	10^7OPS
Operating temperature	$-25^\circ\text{C} \sim 55^\circ\text{C}$
Weight	$\leq 35\text{g}$
Mounting methods	Printed-circuit board, Flange, Outlet

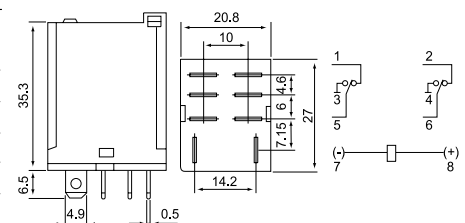


56.12

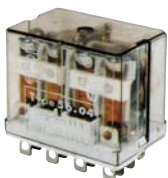


Terminal layout: 2Z
Contact capacity: 10A 250VAC 10A 28VDC
Contact resistance: $\leq 50\text{m}\Omega$
Insulation resistance: $\geq 100\text{m}\Omega$
Dielectric strength: BOC 1000VAC
BCC 1500VAC

Coil nominal Voltage	DC 6V to 110V AC 6V to 240V
Coil nominal power	DC $\leq 0.9\text{W}$ AC $\leq 0.9\text{VA}$ to 1.2VA
Electrical life	10^5OPS
Mechanical life	10^7OPS
Operating temperature	$-25^\circ\text{C} \sim 55^\circ\text{C}$
Weight	$\leq 35\text{g}$
Mounting methods	Printed-circuit board, Flange, Outlet

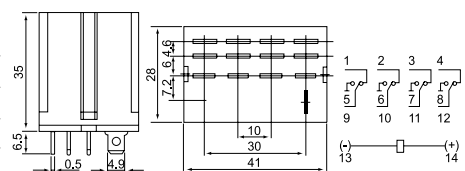


56.14



Terminal layout: 4Z
Contact capacity: 10A 250VAC 10A 28VDC
Contact resistance: $\leq 50\text{m}\Omega$
Insulation resistance: $\geq 100\text{m}\Omega$
Dielectric strength: BOC 1000VAC
BCC 1500VAC

Coil nominal Voltage	DC 6V to 110V AC 6V to 240V
Coil nominal power	DC $\leq 0.9\text{W}$ AC $\leq 2.5\text{VA}$
Electrical life	10^5OPS
Mechanical life	10^7OPS
Operating temperature	$-25^\circ\text{C} \sim 55^\circ\text{C}$
Weight	$\leq 70\text{g}$
Mounting methods	Printed-circuit board, Flange, Outlet



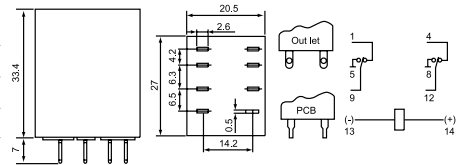
Relays

MY2



Terminal layout: 2Z
Contact capacity: 5A 220VAC 5A 28VDC
Contact resistance: $\leq 50\text{m}\Omega$
Insulation resistance: $\geq 100\text{m}\Omega$
Dielectric strength: BOC 1000VAC
BCC 1500VAC

Coil nominal Voltage	DC 6 to 110V AC 6 to 220V
Coil nominal power	DC $\leq 0.9\text{W}$ AC $\leq 1.2\text{VA}$
Electrical life	10^5OPS
Mechanical life	10^7OPS
Operating temperature	$-40^\circ\text{C} \sim 70^\circ\text{C}$
Weight	$\leq 32\text{g}$
Mounting methods	Printed-circuit board, Flange, Outlet

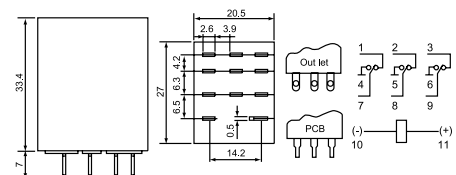


MY3



Terminal layout: 3Z
Contact capacity: 5A 250VAC 5A 28VDC
Contact resistance: $\leq 50\text{m}\Omega$
Insulation resistance: $\geq 100\text{m}\Omega$
Dielectric strength: BOC 1000VAC
BCC 1500VAC

Coil nominal Voltage	DC 6 to 110V AC 6 to 220V
Coil nominal power	DC $\leq 0.9\text{W}$ AC $\leq 1.2\text{VA}$
Electrical life	10^5OPS
Mechanical life	10^7OPS
Operating temperature	$-40^\circ\text{C} \sim 70^\circ\text{C}$
Weight	$\leq 32\text{g}$
Mounting methods	Printed-circuit board, Flange, Outlet

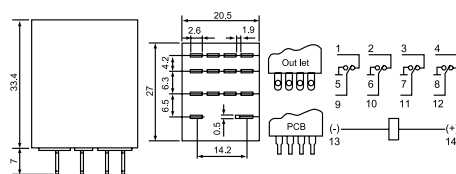


MY4



Terminal layout: 4Z
Contact capacity: 3A 220VAC 3A 28VDC
Contact resistance: $\leq 50\text{m}\Omega$
Insulation resistance: $\geq 100\text{m}\Omega$
Dielectric strength: BOC 1000VAC
BCC 1500VAC

Coil nominal Voltage	DC 6 to 110V AC 6 to 220V
Coil nominal power	DC $\leq 0.9\text{W}$ AC $\leq 1.2\text{VA}$
Electrical life	10^5OPS
Mechanical life	10^7OPS
Operating temperature	$-40^\circ\text{C} \sim 70^\circ\text{C}$
Weight	$\leq 32\text{g}$
Mounting methods	Printed-circuit board, Flange, Outlet

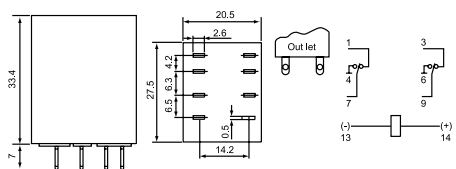


HH52P



Terminal layout: 2Z
Contact capacity: 5A 220VAC 5A 28VDC
Contact resistance: $\leq 50\text{m}\Omega$
Insulation resistance: $\geq 100\text{m}\Omega$
Dielectric strength: BOC 1000VAC
BCC 1500VAC

Coil nominal Voltage	DC 6 to 110V AC 6 to 220V
Coil nominal power	DC $\leq 0.9\text{W}$ AC $\leq 1.2\text{VA}$
Electrical life	10^5OPS
Mechanical life	10^7OPS
Operating temperature	$-40^\circ\text{C} \sim 70^\circ\text{C}$
Weight	$\leq 32\text{g}$
Mounting methods	Flange, Outlet

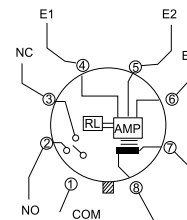


Time Relay

FRC-12



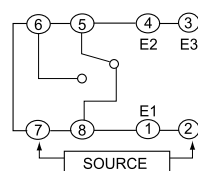
Voltage: AC36V-380V 50/60Hz DC12V-48V
Operation Temperature: -10°C to 50°C



AFR-1



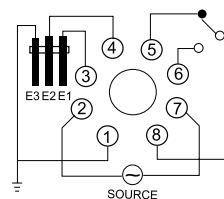
Voltage: AC12V-380V 50/60Hz
Operation Temperature: -10°C to 70°C



A61F-GP



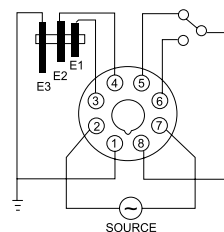
Voltage: AC36V-380V 50/60Hz
Operation Temperature: -10°C to 70°C



C61F-GP



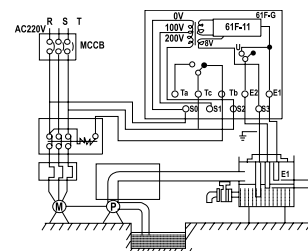
Voltage: AC220V ± 10% 50/60Hz
Operation Temperature: -20°C to 50°C



61F-G



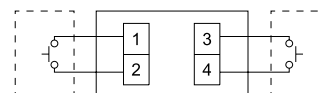
Voltage: AC220V ± 10% 50/60Hz
Operation Temperature: -20°C to 50°C



THC3L



Voltage: DC3V
Operating temperature: -20°C to 60°C
Accumulating Range: 1S-9999d23h
Display mode: LCD(Display)
Reset mode: panel button(With locking) reset by external terminal
Position number for display: 6
Min pulse width for reset: ≥0.2S





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中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO.,LTD CHINA



Magnetic Starter

LE1-D series	80
LE1-DN series	81
LC3-D series	82
MSK series	82



LE1-D09, 12, 18



LE1-D25, 32



LE1-D40, 50, 65



LE1-D80, 95

LE1-D Series Magnetic Starter

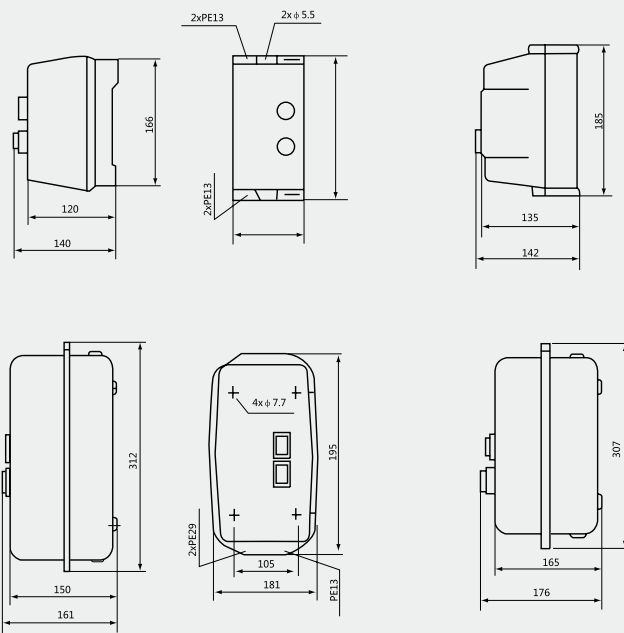
APPLICATION

LE1-D 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

Maximum power AC3 duty(KW)						Rated current (A)	Type of enclosure	Code Number		Suitable Thermal Relay(A)
220V 230V	380V 400V	415V	440V	550V	660V 690V			LL (long life)	NL (normal life)	
2.2	4	4	4	5.5	5.5	9	IP42 IP65	LE1 D094... LE1 D093...	- -	LR2 D1312 LR2 D1314
3	5.5	5.5	5.5	7.5	7.5	12	IP42 IP65	LE1 D124... LE1 D123...	LE1 D094... LE1 D093...	LR2 D1316
4	7.5	9	9	10	10	18	IP42 IP65	LE1 D188... LE1 D185...	LE1 D124... LE1 D123...	LR2 D1321
5.5	11	11	11	15	15	25	IP42 IP65	LE1 D258... LE1 D255...	LE1 D188... LE1 D185...	LR2 D1322 LR2 D2353
7.5	15	15	15	18.5	18.5	32	IP55	LE1 D325...	LE1 D255...	LR2 D2355
11	18.5	22	22	22	30	40	IP55	LE1 D405...	LE1 D325...	LR2 D3353 LR2 D3355
15	22	25	30	30	33	50	IP55	LE1 D505...	LE1 D405...	LR2 D3357 LR2 D3359
18.5	30	37	37	37	37	65	IP55	LE1 D655...	LE1 D505...	LR2 D3361
22	37	45	45	55	45	80	IP55	LE1 D805...	LE1 D655...	LR2 D3363 LR2 D3365
25	45	45	45	55	45	95	IP55	LE1 D955...	LE1 D805...	LR2 D3365

OUTLINE AND MOUNTING SIZE



LE1-DN Series Magnetic Starter

APPLICATION

LE1-DN 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.

SPECIFICATION

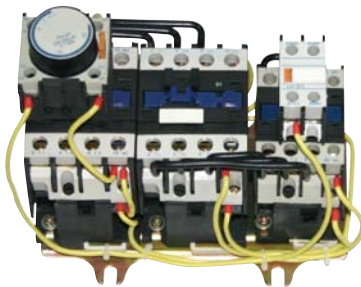
Maximum power AC3 duty(KW)						Rated current (A)	Type of enclosure	Code Number		Suitable Thermal Relay(A)
220V 230V	380V 400V	415V	440V	550V	660V 690V			LL (long life)	NL (normal life)	
2.2	4	4	4	5.5	5.5	9	IP42 IP65	LE1 D094... LE1 D093...	- -	LR2 D1312 LR2 D1314
3	5.5	5.5	5.5	7.5	5.5	12	IP42 IP55	LE1 D124... LE1 D123...	LE1 D094... LE1 D093...	LR2 D1316
4	7.5	9	9	10	5.5	18	IP42 IP55	LE1 D188... LE1 D185...	LE1 D124... LE1 D123...	LR2 D1321
5.5	11	11	11	5	5.5	25	IP42 IP55	LE1 D258... LE1 D255...	LE1 D188... LE1 D185...	LR2 D1322 LR2 D2353
7.5	15	15	15	18.5	5.5	32	IP55	LE1 D325...	LE1 D255...	LR2 D2355
11	18.5	22	22	22	5.5	40	IP55	LE1 D405...	LE1 D325...	LR2 D3353 LR2 D3355
15	22	25	30	30	5.5	50	IP55	LE1 D505...	LE1 D405...	LR2 D3357 LR2 D3359
18.5	30	37	37	37	5.5	65	IP55	LE1 D655...	LE1 D505...	LR2 D3361
22	37	45	45	45	5.5	80	IP55	LE1 D805...	LE1 D655...	LR2 D3363 LR2 D3365
25	45	45	45	45	5.5	95	IP55	LE1 D955...	LE1 D805...	LR2 D3365

Enclosure	LE1-DN09 and D12					Double insulated, protected to IP 42(3) or to IP 659(4)					
	LE1-DN18 and D25					Double insulated, protected to IP 427(3) or to IP 557(4)					
	LE1-DN32 and D95					Metal, IP55 to IP559					
Control(2 pushbuttons mounted on enclosure cover)					LE1-DN09 and D95				1 green Start button "I" 1 red Stop/Reset button"o"		
Connections					LE1-DN32 and D95				Metal,IP55 to IP559		
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





LC3-D183



LC3-D323

LC3-D Star-delta Reduced Voltage Starter

APPLICATION

LC3-D 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 change over of star delta to reduce the voltage and current of motor starting.

TECHNICAL SPECIFICATION

Type	Rated operating current(A)	3-Phase motor capacity (KW)			
	AC3	220V	AC3 380V	Loaded 415V	440V
LC3-D09-3	9	4	7.5	7.5	7.5
LC3-D12-3	12	5.5	11	11	11
LC3-183	17	11	18.5	22	22
LC3-253	25	11	22	22	22
LC3-323	32	11	18.5	22	22
LC3-403	40	15	25	25	25
LC3-503	50	18.5	37	37	37
LC3-803	80	25	55	59	59
LC3-953	95	45	80	80	80



MSK11, 12



MSK21

MSK Series Magnetic Starter

SPECIFICATION

Spc.	Type	MSK11	MSK12	MSK21	MSK35
Rated operating voltage		660V	660V	660V	660V
Rated operating current AC 3le (A)	220V	7A	12A	17A	34A
	380V	9A	18A	21A	40A
	550V	12A	24A	24A	50A
	660V	12A	24A	24A	50A
Rated power(KW)	220V	3A	3A	5.5A	6A
	380V	4A	4A	11A	12A
	550V	4A	4A	11A	12A
	660V	4A	4A	11A	12A
Suitable AC contactor		M-11CL	M-12CL	M-21CL	M-35CL
Suitable thermal Relay		T2-12		T2-20	



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Fuse & Fuse Base

NT series	84-85
NTB series	85
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SR6 Isolating Fuse-switch	89
High Voltage Current Limited Fuse	89
SR17 Isolating Fuse-switch	90
Drop-out Fuse Cutout	91
Lightning Arrester	92



NT00C



NT00



NT0



NT1

NT H.R.C Low Voltage Fuse and Base

APPLICATION

NT type low voltage H.R.C. fuse features light in weight, small in size, low in power, loss and high in breaking capacity. This product has been widely used in overload and short circuit protection of electric installations.

This product conforms to IEC269 and VDE0636 standards 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 NT00	2	500, 600	0.41	0.15	sist 101	160	0.2
	4		0.81				
	6		0.62				
	10		1.08				
	16		1.60				
	20		1.81				
	25		2.31				
	32		3.07				
	36		3.17				
	40		4.05				
	50		4.25				
	63		5.7				
	80		7				
	100		1.03				
NT0	6	500, 600	4.70	0.2	sist 101	160	0.32
	10	500, 600	1.42				
	16	500, 600	2.45				
	20	500, 600	2.36				
	35	500, 600	2.7				
	32	500, 600	3.74				
	35	500, 600	4.3				
	40	500, 600	4.7				
	50	500, 600	5.5				
	63	500, 600	6.9				
	80	500, 600	7.6				
	100	500, 600	8.9				
	125	500	10.1				
	160	500	15.2				

Type	Fuse link				Fuse base		
	Rated current (A)	Rated voltage (V)	Rated power loss (W)	Weight (kg)	Type	Rated current (A)	Weight (kg)
NT1	80	500, 600	6.2	0.36	sist 201	250	0.8
	100	500, 600	7.5				
	125	500, 600	10.2				
	160	500, 600	13				
	200	500, 600	15.2				
	224	500	16.8				
	250	500	18.3				



NT



NT2



NT3



NT4

NT H.R.C 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, 600	9	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				

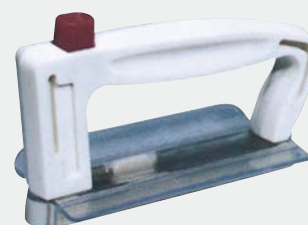
Type	Fuse link				Fuse base		
	Rated current (A)	Rated voltage (V)	Rated power loss (W)	Weight (kg)	Type	Rated current (A)	Weight (kg)
NT3	315	500, 600	21.7	0.85	sist 601	630	1.5
	355	500, 600	22.7				
	400	500, 600	26.8				
	425	500, 600	28.9				
	500	500	32				

Type	Fuse link				Fuse base		
	Rated current (A)	Rated voltage (V)	Rated power loss (W)	Weight (kg)	Type	Rated current (A)	Weight (kg)
NT4	800	380	62	1.95	sist 1001	1000	3.45
	1000	380	75				

NTB Series Fuse Handle



NTB





RT14



R022



RL6

Cylindrical Fuse

APPLICATION

The fuses with fuse links having cylindrical contact caps are designed for protecting electrical distributing installations of rated voltage of 380VAC, with rated current up to 125A against damage due to overload and short circuit current.

Fuse links with the stricker are supplied for purpose of protecting motors against motor single phasing operation when fitted in fuse isolators.

SPECIFICATIONS

Dimension (mm)	Rated current (A)	L(mm)	Hamx(mm)	φ C(mm)
8.5 x 31.5	2, 4, 6, 10, 16	$31.5 \pm \begin{smallmatrix} 0 \\ 0.6 \end{smallmatrix}$	8.2	8.5 ± 0.1
10 x 38	2, 4, 6, 10, 16, 20, 25, 32	31.5 ± 0.6	10.5	10.3 ± 0.1
14 x 51	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63	$51 \pm \begin{smallmatrix} 0.6 \\ 1.0 \end{smallmatrix}$	13.8	14.3 ± 0.1
22 x 58	10, 16, 20, 25, 32, 40, 50, 63, 80, 100	$58 \pm \begin{smallmatrix} 0.1 \\ 2.0 \end{smallmatrix}$	16.2	22.2 ± 0.1
30 x 58	63, 80, 100, 125	$58 \pm \begin{smallmatrix} 0.1 \\ 2.0 \end{smallmatrix}$	16.2	30 ± 0.1

Model	RL6-16	RL6-25	RL6-63
Rated voltage (V)	500	500	500
Rated current of fuse (A)	25	25	63
Rated current of fusant (A)	1, 2, 4, 6, 10	2, 4, 6, 10, 16, 20, 25	35, 50, 63
Rated breaking current	50kA $\cos \phi = 0.1-0.2$	50kA $\cos \phi = 0.1-0.2$	50kA $\cos \phi = 0.1-0.2$
Overall dimensions (mm)	35 x 35 x 70	66 x 43 x 80	89 x 54 x 82
Weight (kg)	0.15	0.20	0.35

Fuse Holder

APPLICATION

The Fuses with fuse-links having cylindrical contact caps are used as overload short circuit protection in electric system with rated voltage of 380V, rated current up to 63A. Fuse-links with the striker are used for the purpose of protection motors against phase-failure when fitted in fuse isolators.



RT18-32 1P



RT18-32 2P



RT18-32 3P



RT14-32/63/100



HG30-32 1P



HG30-32 2P



HG30-32 3P



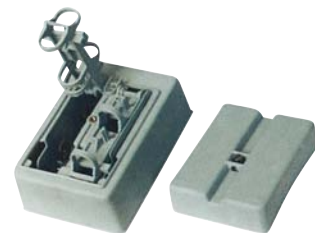
S01



L126



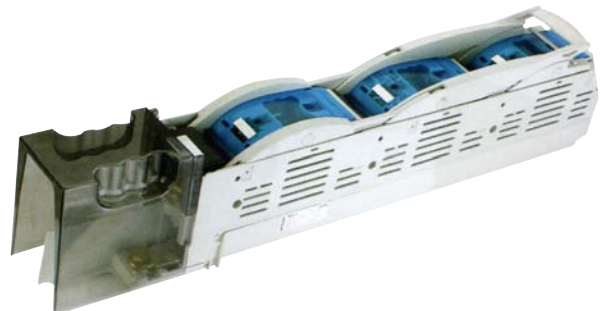
FH 2P 30A



FH 2P 30A



FH 4P 60A



RST 3 phase

Cut Out Fuse

APPLICATION

FS cutouts are made of high grade phenolic moulding power having high mechanical and dielectric strength. The body possessor non-hygroscopic and non-tracking qualities. Terminal contracts are of tinned brass with phosper bronze back up compression spring capable for providing flawless service even after years of use.

It has features like: all components are inter-locked. Sealing provision to avoid unauthorized access. Common body from 15amps to 100amps. Terminal are suitable for aluminium/copper conductors up tto 35sq. mm loop in and loop out cabling contacts available. FS insulated service cutouts conform to BS 1361. 1986 standard SR H fuses conform to BS 1361.1986.



A-1



A-2



A-3



A-4



A-5



A-6



A-7



A-8



E-A



60/80A



100A



E-N



100A



160A



250A

SR6 Series Isolating Fuse-switch

APPLICATION

The product is used in distribution circuit and motor circuit of current 50Hz, rated operational frequency 660V under, and rated current 100A-630A, also used in high-short-circuit as power switch, isolating switch and emergency switch protecting circuit. Fitted with NT(RT16) fuse.

TECHNICAL PARAMETER CONFORM TO IEC947-3、GB14048.3

Specification		100	160	250	400	630
Poles (P)		3				
Rated insulation voltage AC (V)		690				
Rated operational voltage (V)		380, 660				
Rated operational current (A)	380V AC-23	100	160	250	400	630
	660V AC-22	100	160	250	400	630
Rated making capacity	380Vcos ϕ 0.35 AC-23	10			10	
	660Vcos ϕ 0.65 AC-22				3	
Rated breaking capacity	380Vcos ϕ 0.35 AC-23	8			8	
	660Vcos ϕ 0.65 AC-22				3	
Rated fused short-circuit current (KA _{r.m.s})	380V AC-23				100	
	660V AC-22				50	
Max. fuse-link (A)		100	160	250	400	630
Fuse type NT(RT16)		00C	00		2	3
Mechanical endured /electrical endured (operations)		3000/600			1000/200	
Auxiliary switch (380V AC-15)VA		300				



HRFP-12



HRFT1-SDL.J

High Voltage Current Limited Fuse

APPLICATION

High voltage current limited fuse for voltage transformer protection.

SPECIFICATIONS

Type	Rated voltage (kV)	Rated current (A)	Rated breaking current (A)
HRFP-12	12	0.5, 1, 2, 3, 15	40
HRFP-12X	12	0.5, 1, 2, 3, 15	40

APPLICATION

Plug high voltage current limited fuse for transformer protection.

SPECIFICATIONS

Type	Rated voltage (kV)	Rated current (A)	Rated breaking current (A)
HRFT1-12 SDL.J	12	1, 2, 3, 15, 6.3, 10, 16, 20, 31.5, 40	31.5
HRFT1-12 SFL.J		50, 60, 71, 80, 100	
HRFT1-12 SKL.J		125	
HRF-12 SKL.J all range		10, 16, 20, 25, 31.5, 40, 50, 63	50
HRFT1-12		160, 200	



SR17 160A



SR17 400A



SR17 630A

SR17 Series Isolating Fuse-switch

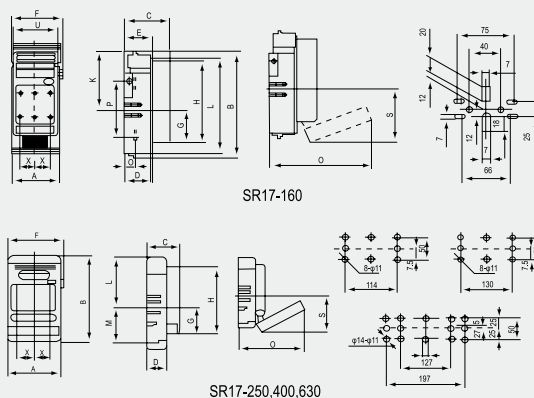
SPECIFICATIONS

Rated working current (A)	160	250	400	630
Rated heating current (A)	160	250	400	630
Suitable fuse size	00	1	2	3
Current voltage	AC 50Hz	AC 50Hz	AC 50Hz	AC 50Hz
Rated voltage (V)	690 500 400	690 500 400	690 500 400	690 500 400
Rated insulation voltage (V)	800			
Working frequency endurable voltage (V)	3000			
Using method	AC-21B (690V)			
	AC-22B (500V)			
	AC-23B (400V)			
Rated connection capacity	725V, 240A	725V, 375A	725V, 600A	725V, 945A
	525V, 480A	525V, 750A	525V, 1200A	525V, 1890A
	420V, 1600A	420V, 2500A	420V, 4000A	420V, 6300A
Rated start break capacity	725V, 240A	725V, 375A	725V, 600A	725V, 945A
	525V, 480A	525V, 750A	525V, 1200A	525V, 1890A
	420, 1280A	420V, 2000A	420V, 4000A	420V, 5040A
Rated short circuit current (kA)	50 120 120	50 120 120	50 120 120	50 120 120
Fuse consumption rate (W)	12	23	34	48

SWITCH AND SUITABLE FUSE

Switch rating heat current (A)	Fuse size	Rated current (A)
160	00	4, 6, 10, 16, 20, 25, 32, 35, 40, 50, 63, 80, 100, 125, 160
250	1	80, 100, 125, 160, 200, 224, 250
400	2	125, 160, 200, 224, 250, 300, 315, 355, 400
630	3	315, 355, 400, 425, 500, 630

DIMENSIONS



Type	A	B	C	D	E	F	G	H	K	L	M	O	P	Q
SR17-160	106	200	83	45	47.5	177	60	155	109	181	103	205	110	17
SR17-250	185	315	112.5	66		199	84	220	70	105	115	294	183	20
SR17-400	210	351	128	80		224	92	249	51.5	124	131	339	221	25
SR17-630	256	351	142.5	94.5		270	98.5	259	48	127.5	139.5	360	211	28



FSC-1



FSC-7



FSC-18



FSC-22

Drop-out Fuse Cutout

12kV~15kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-1	15	100	10000	110	40	250	7.3	38.5 x 34.5 x 10.5
FSC-1	15	200	12000	110	40	250	7.3	

12kV~15kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-7	11	100	6000	110	42	340	7.5	49 x 27 x 11.5
FSC-7	11	200	8000	110	42	340	7.5	

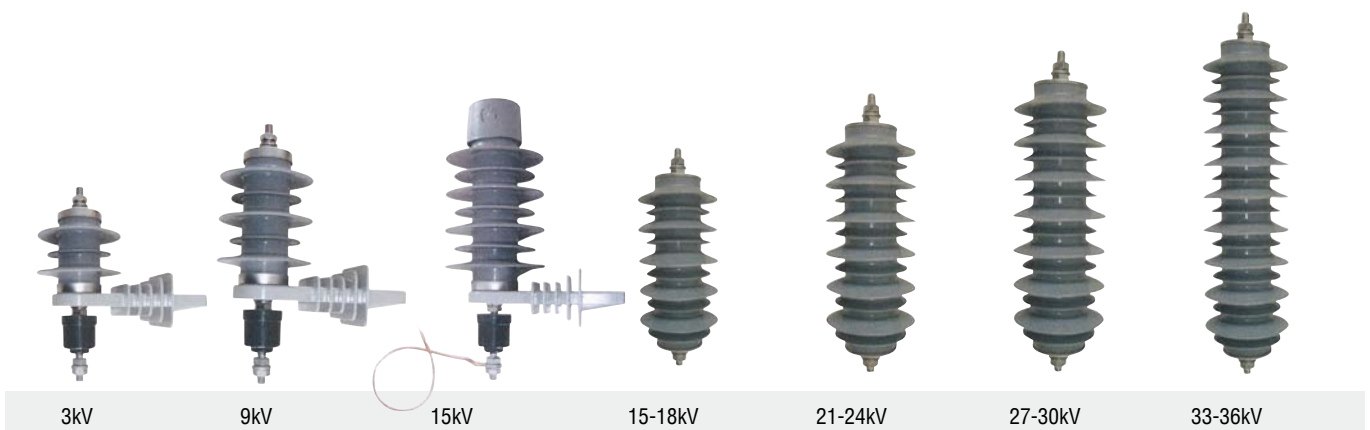
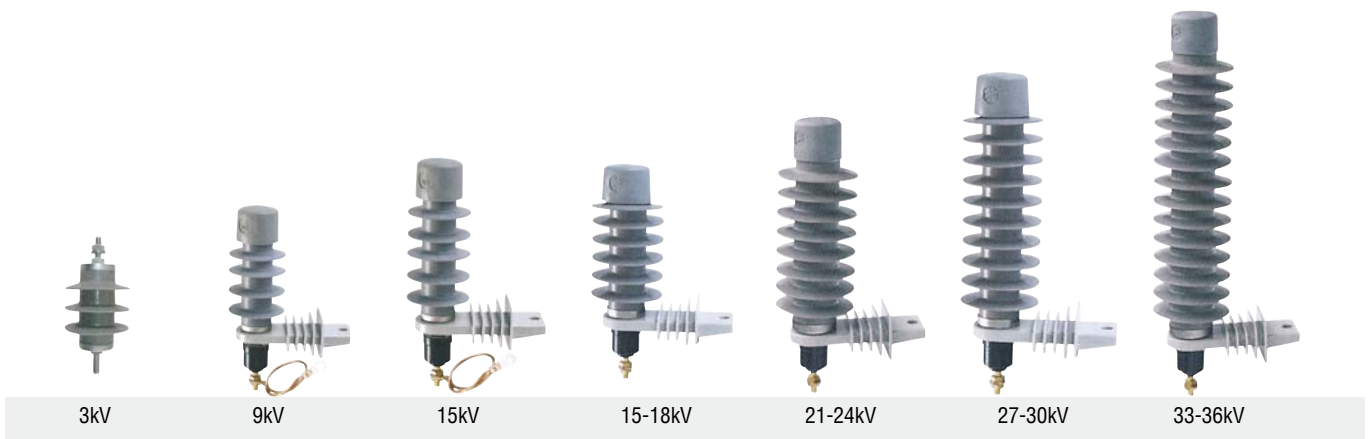
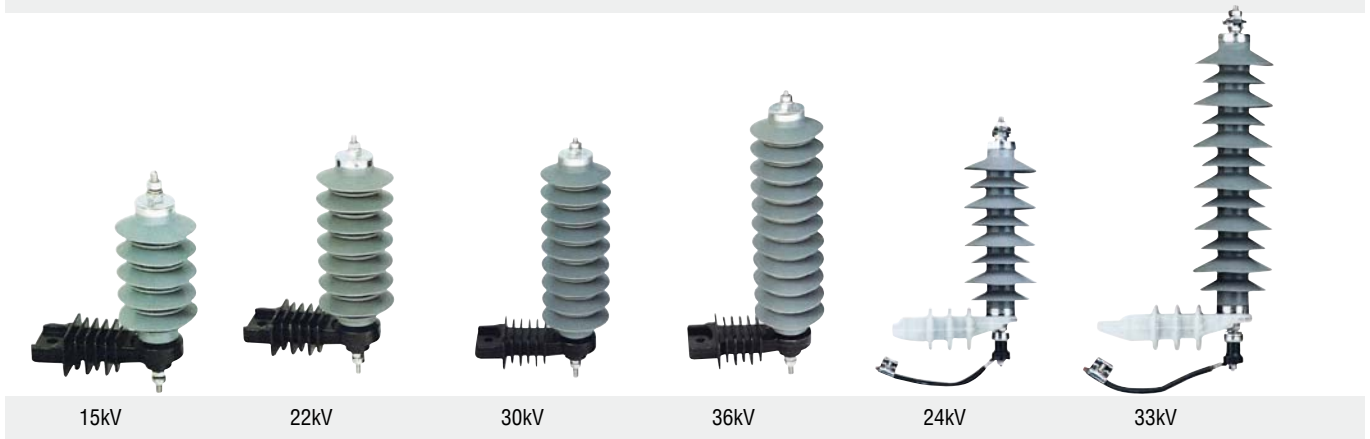
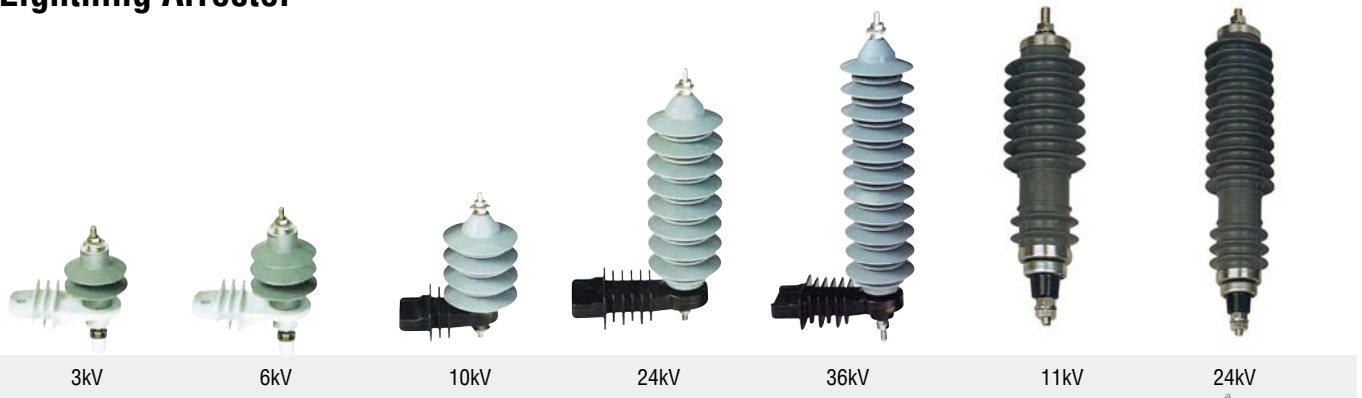
24kV~27kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-18	24	100	8000	150	65	530	12	48 x 34.5 x 14
FSC-18	24	200	10000	150	65	530	12	

33kV~36kV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-22	33	100	10000	170	70	720	15.5	57 x 38 x 14.5
FSC-22	33	200	20000	170	70	720	15.5	

Lightning Arrester





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中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO., LTD CHINA



Meters

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Panel Meter

APPLICATION

Panel meter is one kind of electric measure indicator with the direct effect of imitate display. It is suitable for AC & DC output and input distribution circuit, power plant console cabinet, power operating board and different apparatus. It is used to measure DC current, voltage & AC current, voltage, frequency and phase power.

SPECIFICATIONS

Accuracy class	1.0, 1.5, 2.5	Ambient temperature	23°C ± 10°C
Relative humidity	25% and 80%	External magnetic field	0.4kA/m
Endurance	AC45-65Hz 2kV 1min	Installation position	vertical ± 10°
Transport temperature	-30°C ~ 55°C	The standard accords to IEC51	



JD52 φ 65



62T2 φ 90



SO-65 φ 83.6



JD-96 96 x 96
JD-72 72 x 72



JD-96 96 x 96
JD-72 72 x 72



JD-96 96 x 96
JD-72 72 x 72



JD-96 96 x 96
JD-72 72 x 72



JD-96 96 x 96
JD-72 72 x 72



JD-96 96 x 96
JD-72 72 x 72



JD-96 96 x 96
JD-72 72 x 72



JD-48 48 x 48



JD60 60 x 60



JD60 60 x 60



JD-96 96 x 96
JD-72 72 x 72



JD-96 96 x 96
JD-72 72 x 72



JD80 80 x 80



SX6L 80 x 80



SX96 96 x 96



SX72 72 x 72



SX42 120 x 120



SX48 48 x 96



SXT Digital panel

Digital Panel Meter

APPLICATION

Digital panel meter have AC/DC digital voltage, Ampere, Power Factor, Digital panel, Frequency meter. It is new digital meters as international standards DIN design.

SPECIFICATIONS

Type	SX6L	SX96	SX72
Max. display	1999	1999	1999
Input mode	Single-end input	CT. Sided	AC, pulse signal
A/D coverter	Dual siopie	Dual siopie	Dual siopie
Display	Red LED 0.5"	Red LED 0.5"	Red LED 0.5"
Sampling time	Abt. 2.5 secretary	Abt. 2.5 secretary	Abt. 2.5 secretary
Over input indication	"1" or "-1"	"1" or "-1"	"1" or "-1"
Aux. power supply	AC 110/220 $\pm$ 10% 50/60Hz	AC 110/220 $\pm$ 10% 50/60Hz	AC 110/220 $\pm$ 10% 50/60Hz
Power consumption	$\leq$ 1.5W	$\leq$ 1.5W	$\leq$ 1.5W
Accuracy	$\pm$ 0.5%F.S $\pm$ 2digit (23°C $\pm$ 5°C)	$\pm$ 0.5%F.S $\pm$ 1digit (23°C $\pm$ 5°C)	$\pm$ 0.5%F.S $\pm$ 2digit (23°C $\pm$ 5°C)
Withstand impedance	DC500 $\geq$ 100M Ω	DC500 $\geq$ 100M Ω	DC500 $\geq$ 100M Ω
Operating temperature	0~ 50°C	0~ 50°C $\leq$ 80%RH	0~ 50°C $\leq$ 80%RH
Outside dimension (mm) (HxWxD)	80 x 80 x 70	96 x 96 x 112	72 x 72 x 70
Snatch dimension (mm) (HxW)	76 x 76	92 x 92	67 x 67

Type	SX42	SX48	SXT
Max. display	1999	1999	1999
Input mode	AC, pulse signal	CT, PT isolated	Single-end input
A/D coverter	Dual siopie	Dual siopie	Dual siopie
Display	Red LED 0.8"	Red LED 0.5"	Red LED 0.5"
Sampling time	Abt. 2.5 secretary	Abt. 2.5 secretary	Abt. 2.5 secretary
Over input indication	"1" or "-1"	"1" or "-1"	"1" or "-1"
Aux. power supply	AC 110/220 $\pm$ 10% 50/60Hz	AC 110/220/380 $\pm$ 10% 50/60Hz	DC 15V AC/DC6-12V
Power consumption	$\leq$ 1.5W	$\leq$ 1.5W	$\leq$ 1.5W
Accuracy	$\pm$ 0.5%F.S $\pm$ 2digit (23°C $\pm$ 5°C)	$\pm$ 0.5%F.S $\pm$ 2digit (23°C $\pm$ 5°C)	$\pm$ 0.2%F.S $\pm$ 1digit (23°C $\pm$ 5°C)
Withstand impedance	DC500 $\geq$ 100M Ω	DC500 $\geq$ 100M Ω	DC500 $\geq$ 100M Ω
Operating temperature	0~ 50°C $\leq$ 80%RH	0~ 50°C $\leq$ 80%RH	0~ 50°C $\leq$ 80%RH
Outside dimension (mm) (HxWxD)	120 x 120 x 120	48 x 96 x 112	43 x 79 x 45
Snatch dimension (mm) (HxW)	112 x 112	44 x 92	40 x 75

MSQ Series Current Transformer

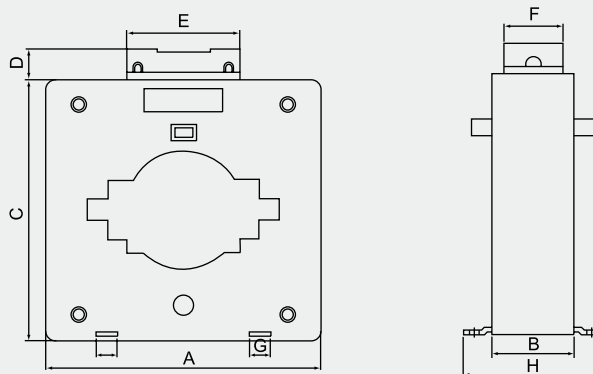
APPLICATION

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 form a complete set of mine transformer. The product conforms to IEC 185

SPECIFICATIONS

MSQ-30		MSQ-40	MSQ-60	MSQ-100
Measuring range	Through times	Measuring range	Measuring range	Measuring range
30~50/5	2T	200/5	400/5	1000/5
60/5	1T	250/5	500/5	1200/5
100/5	1T	300/5	600/5	1500/5
150/5	1T	400/5	800/5	1600/5
200/5	1T	500/5	1000/5	2000/5
250/5	1T	600/5	1200/5	2500/5
300/5	1T			3000/5

DIMENSIONS



MSQ-30



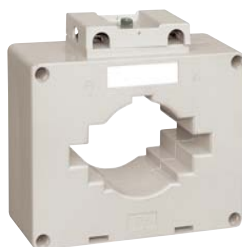
MSQ-30



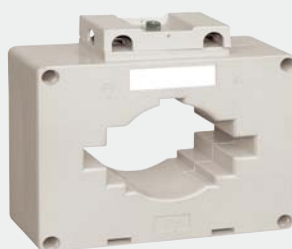
MSQ-40



MSQ-40



MSQ-60



MSQ-100



MSQ-150



DD862-4 Aluminum cover



DD862 Plastic cover



DD28 Glass cover



DD862 Plastic cover



DT8 Aluminum cover

DD862 DD282 Series Single Phase Meters

APPLICATION

The DD28 series single phase meter is a kind of induction meter to measure the single phase current at the rated frequency of 50Hz. It is an indoor installed meter. ambient temperature: -10°C to 50°C , relative humidity: below 85% (25°C).

DT-8 and DT862 series three phase meter is an induction meter to measure the three phase current at the rated frequency (50Hz). It is an indoor installed meter; Ambient temperature: -10°C to 50°C , relative humidity: below 85% (25°C).

SPECIFICATIONS

Description	Item no.	Accuracy class	Rated voltage (V)	Calibration (A)	Connection
Single phase kilowatt-hour meter	DD28 DD862-2	2.0	230-240	10-20	Direct connection
				20-40	
				20-60	
				10-40	
	DD862-4	2.0	220	2.5-10	
				5-20	
				10-40	
				15-60	
				20-80	

Description	Item no.	Accuracy class	Rated voltage (V)	Calibration (A)	Connection
Three phase kilowatt-hour meter	DT862	2.0	3X380/220	5-20	Direct connection
				10-40	
				15-60	
				20-80	
				20-60	
	DT8	2.0	3X380/220	25-60	
				50-100	
				5(C/T)	

Digital Clamp Meter



UT30B



ECS820B



DT830A



DT830D



DT838



DT820B



EC5308



M300



DT920B



266C



2017



MT486A



KT9030B

Multitester



SP-110



YX-360TRN



YX-360TRD



MG26



MG28



266



DT830



DT830B



DT890D



SP15D



YX1000A



EC/1000



REX-C100



REX-C700



REX-900



REX-C400



REX-C800

REX Series Digital Temperature Controller

TECHNICAL INDEX

Introduce signal	Thermoelectric couple: K、E、S、J
	Thermal resistance: PT100 Cu50
	Hall transmitter mV signal
	Resistance type distance-reading pressure signals
	Standard voltage and current signals
Regulation rule	Biinal regulation, ternary regulation, contact on-off PID regulation type
	PID regulation type of drive solid state relay
	PID regulation type of output single-phase zero crossing trigger signal
	PID regulation type of output 3-phase zero crossing trigger signal
	PID regulation type of output 0~10mA current
Meter precision	$\pm 1\%FS \pm 1\text{word}$
	$\pm 0.5\%FS \pm 1\text{word}$
Alarm range	Full range free set
Work power supply	Switch power supply
	Transformer power supply
Dimensions (W x H x D) (mm) The sizes in the bracket refer to opening dimensions	60 x 80 x 100 (152 x 76)
	96 x 96 x 100 (92 x 92)
	72 x 72 x 100 (68 x 68)
	48 x 96 x 100 (45 x 92)
	96 x 48 x 100 (92 x 45)
	48 x 48 x 100 (45 x 45)

Temperature Controller



TC-1



TC-2



TC-3



JTC-902



JTC-903



XMTA-D



XMTA-S



XMTA-2



XMTA-3



TEN

Thermoelement and Thermoresistance Series



ER-1 ST 073
WRNT-34
Screw type



ER-2 ST 074
WRNT-34
Screw type



ER-3 ST 075
WRNT-34
Screw type



ER-4 ST 076
WRNT-33
Screw type



ER-5 ST 077
WRNT-31
Screw type



ER-6 ST 078
WRNT-37
Screw type



ER-7 ST 079
WRNT-01
Pressing spring type



ER-8 ST 080
WZP-10
Exploring head type



ER-9 ST 081
WRNT-220
Thermoelement



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CB CE



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中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO.,LTD CHINA



Indicator & Pushbutton

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XB4-B series	107-108
XB5-B series	109
XAL Control Stations	110-111
Pushbutton & Indicator	112-113
Pushbutton Switch	114
Pilot Lamp	115-116
BS, BSH Push Button Switch	117
COB Push Button Switch	117
COBP Water-proof Lifting Button Control Platform	118



XB2-EV16



XB2-EA121



XB2-BA42



XB2-BS542



XB2-BP42



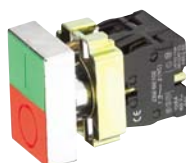
XB2-BJ21



XB2-BD21

Pilot Light & Pushbutton

Description	Supply	Supply voltage	Color	Reference
Connected with light light-included	SA9s direct connection BA 9s light (1) not supply	250V 50/60Hz	Green	XB2-EV163
			Red	XB2-EV164
			Yellow	XB2-EV165
			Blue	XB2-EV166
	Contact type	Diameter (mm)	Color	Reference
Pushbutton spring return	N/O		Black	XB2-EA121
			Green	XB2-EA131
	N/C		Red	XB-EA142
	N/C+N/O			
			Black	XB2-EA125
			Green	XB2-EA135
			Red	XB2-EA145
Flush	N/O		Black	XB2-BA21
			Green	XB2-BA31
			Yellow	XB2-BA51
			Blue	XB2-BA61
	N/C		Red	XB2-EA142
Turn to release red	N/C	30		XB2-BS442
		40		XB2-BS542
		60		XB2-BS642
	N/C	40		XB2-BS142
Mushroom head 60mm	N/O		Black	XB2-BP21
			Green	XB2-BP31
			Yellow	XB2-BP51
			Blue	XB2-BP61
	N/C		Red	XB2-BR42
Description	Contact type	Operator handle	Reference	
2 positions stay put	N/O	Standard	XB2-BD21	
		Long	XB2-BJ21	
	N/O+N/C	Standard	XB2-BD25	
		Long	XB2-BJ25	
2 positions spring return from right to left	N/O	Standard	XB2-BD41	
		Long	XB2-BJ41	
2 positions spring return from right to left	N/O+N/C	Standard	XB2-BD45	
		Long	XB2-BJ45	
3 positions stay put	N/O+N/C	Standard	XB2-BD33	
		Long	XB2-BJ33	
3 positions stay put 2 spring return	N/O+N/C	Standard	XB2-BD53	
		Long	XB2-BJ53	



XB2-BL8325



XB2-BW8465



XB2-BV63



XB2-BV74



XB2-BW3361



XB2-BK2365

Pilot Light & Pushbutton

Description	Contact type	Scheme	Degree of protection	Reference
2 positions stay put	N/O+N/C	Unmarked	IP40	XB2-BL8325
			IP65	XB2-BL9325
		I 0	IP40	XB2-BL8425
			IP65	XB2-BL9425
Without pilot light 1 flush green pushbutton 2 pilot with Yellow lens direct supply 380V BA 9s bulb not included 1 projecting red pushbutton	N/O+N/C	Unmarked	IP40	XB2-BW8365
		I 0	IP40	XB2-BW8465
1 flush green pushbutton 2 pilot with Yellow lens 220/250V supply divect thruth resistor BA 9s, 130V blud included 1 protecting red pushbutton	N/O+N/C	Unmarked	IP40	XB2-BW8375
		I 0	IP40	XB2-BW8475
1 flush green pushbutton 2 pilot with Yellow lens 1.2VA-220V 50Hz supply viaintegral transformer BA 9s, 130V blud included 1 protecting red pushbutton	N/O+N/C	Unmarked	IP40	XB2-BW8345
		I 0	IP40	XB2-BW8445
Supply	Supply voltage		Color	Reference
Direct bulb not supplied	< 380V 50Hz		Green	XB2-BV63
			Red	XB2-BV64
			Yellow	XB2-BV65
Direct thriygh resistor BA9s, 6V bulb supplied	220V-240V 50Hz		Green	XB2-BV73
			Red	XB2-BV74
			Yellow	XB2-BV75
Via integral transformer BA9s, 6V, bulb supplied	110V 50Hz		Green	XB2-BV33
			Red	XB2-BV34
			Yellow	XB2-BV35
	220V-240V 50Hz		Green	XB2-BV43
			Red	XB2-BV44
			Yellow	XB2-BV45
	380-415V 50Hz		Green	XB2-BV53
			Red	XB2-BV54
			Yellow	XB2-BV55
illuminated flush pushbuttons with N/O contact				
Direct bulb not supplied	< 380V 50Hz		Green	XB2-BW3361
			Red	XB2-BW3461
			Yellow	XB2-BW3561
Direct thriygh resistor BA9s, 6V bulb supplied	220V-240V 50Hz		Green	XB2-BW3371
			Red	XB2-BW3471
			Yellow	XB2-BW3571
Description	Contact type	Reference		
2 Position stay put	N/C+N/O		XB2-BK2365	
			XB2-BK2465	
			XB2-BK2565	
			XB2-BK2665	
			XB2-BK2765	
	N/C+N/O		XB2-BK3365	
			XB2-BK3465	
			XB2-BK3565	
			XB2-BK3665	
			XB2-BK3765	
	N/C+N/O		XB2-BK5365	
			XB2-BK5465	
			XB2-BK5565	
			XB2-BK5665	
			XB2-BK5765	



XB2-ED21



XB2-EJ21



XB2-EG21



XB2-ES542



XB2-ES142



XB2-ER42

Pilot Light & Pushbutton

Description	Contact type	Operator	Reference	
2 position stay put	N/C	Standard handle	XB2-ED21	
		Long handle	XB2-EJ21	
	N/O+N/C	Standard handle	XB2-ED25	
		Long handle	XB2-EJ25	
2 position 1 spring return from right to left	N/O	Standard handle	XB2-ED41	
		Long handle	XB2-EJ41	
	N/O+N/C	Standard handle	XB2-ED45	
		Long handle	XB2-EJ45	
3 position stay put	N/O+N/O	Standard handle	XB2-ED33	
		Long handle	XB2-EJ33	
3 position 2 spring return to centre	N/O+N/O	Standard handle	XB2-ED53	
		Long handle	XB2-EJ53	
Description	Contact type	Key position removal	Reference	
2 positions stay put	N/O	Left	XB2-EG21	
	N/O+N/C	Left	XB2-EG25	
3 positions stay put	N/O+N/C	Center	XB2-EG33	
3 positions spring return	N/O+N/C	Center	XB2-EG73	
Description	Contact type	Dimeter (mm)	Color	Reference
Turn to release	N/C	30	Red	XB2-ES442
		40	Red	XB2-ES542
Description	Contact type	Color	Reference	
Mushroom head 60mm	N/O	Black	XB2-ER21	
		Green	XB2-ER31	
		Yellow	XB2-ER51	
		Blue	XB2-ER61	
	N/C	Red	XB2-ER42	



XB2-EV74



XB2-EW3361



XB2-EA31



ZB2-BE101



ZB2-BZ102

Pilot Light & Pushbutton

Supply	Supply voltage	Color	Reference
Direct bulb not supplied	< 380V 50Hz	Green	XB2-EV63
		Red	XB2-EV64
		Yellow	XB2-EV65
Direct thrygh resistor BA9s, 6V bulb supplied	220V-240V 50Hz	Green	XB2-EV73
		Red	XB2-EV74
		Yellow	XB2-EV75
Via integral transformer BA9s, 6V, bulb supplied	110V 50Hz	Green	XB2-EV33
		Red	XB2-EV34
		Yellow	XB2-EV35
	220V-240V 50Hz	Green	XB2-EV43
		Red	XB2-EV44
		Yellow	XB2-EV45
	380-415V 50Hz	Green	XB2-EV53
		Red	XB2-EV54
		Yellow	XB2-EV55
Direct bulb not supplied	< 380V 50Hz	Green	XB2-EW3361
		Red	XB2-EW3461
		Yellow	XB2-EW3561
Direct thrygh resistor BA9s, 6V, bulb supplied	220V-240V 50Hz	Green	XB2-EW3371
		Red	XB2-EW3471
Description	Contact type	Color	Reference
Flush	N/O	Black	XB2-EA21
		Green	XB2-EA31
		Yellow	XB2-EA51
		Blue	XB2-EA61
Description	Contact type	Reference	
For making up body assemblies with 3, 4, 5 or maximum of 6 contact blocks or replacing 1 st or 2nd contact	N/O	ZB2-BE101	
	N/C	ZB2-BE102	
	N/O	ZB2-BE101	
	N/C	ZB2-BE102	
	N/O+N/O	ZB2-BE103	
	N/C+N/C	ZB2-BE104	
	N/O+N/C	ZB2-BE105	



XB4-BW3361



XB4-BA42



XB4-BL42



XB4-BP51



XB4-BD33



XB4-BC42

XB4-B Series Pushbutton Switch

illuminated flush pushbuttons with N/O contact					
Supply voltage	Scheme	Supply voltage	Color	Reference	
Direct bulb supplied*		< 380V 50Hz	Green	XB4-BW3361	
			Red	XB4-BW3461	
			Yellow	XB4-BW3561	
			Blue	XB4-BW3661	
Description	Scheme	Contact type	Color	Reference	
Flush		N/O	Black	XB4-BA21	
			Green	XB4-BA31	
			Yellow	XB4-BA51	
			Blue	XB4-BA61	
Flush head with spring		N/C	Red	XB4-BA42	
Description	Contact type	Scheme	Color	Reference	Weight
Raised model push button	N/O		Black	XB4-BL21C	0.70
				XB4-BZ101C+XB2-BL2C	
			Green	XB4-BL31C	0.70
				XB4-BZ101C+XB2-BL3C	
			Yellow	XB4-BL51C	0.70
	N/C			XB4-BZ101C+XB2-BL5C	
			Blue	XB4-BL61C	0.70
				XB4-BZ101C+XB2-BL6C	
			Black	XB4-BL22C	0.70
				XB4-BZ101C+XB2-BL2C	
Booted	N/O		Red	XB4-BL42C	0.70
				XB4-BZ101C+XB2-BL4C	
Description	Contact type	Scheme	Color	Reference	
Booted	N/O		Black	XB4-BP21	
			Green	XB4-BP31	
			Yellow	XB4-BP51	
			Blue	XB4-BP61	
			Red	XB4-BP42	
Description	Scheme	Contact	Operator handle	Reference	
3 positions stay out		N/O+N/O	Standard	XB4-BD33	
			Long	XB4-BJ33	
3 positions stay out 2 pring return		N/O+N/O	Standard	XB4-DB53	
			Long	XB4-BJ53	
Description	Scheme	Contact type	Diameter	Colour	Reference
Mushroom head		N/C	φ 40	Red	XB4-BC42
		N/C	φ 60	Red	XB4-BC42



XB4-BV65



XB4-BA4322



XB4-BG25



XB4-BS542



XB4-BL8425

XB4-B Series Pushbutton Switch

Pilot lights							
Supply voltage		Scheme		Supply voltage	Color	Reference	
Direct bulb supplied		X1 ⊗ X2		< 380V 50Hz	Green	XB4-BV63	
					Red	XB4-BV64	
					Yellow	XB4-BV65	
					Blue	XB4-BV66	
With function symbol, spring return							
Description	Contact type	Scheme	Color	Marking on	Reference	Weight	
Flush	N/O 13 14		Green		XB4-BA3311C	0.07	
				White	↑ & ↓	XB4-BZ101C+XB4-BA331C	
						XB4-BA3341C	0.07
						XB4-BZ101C+XB4-BA334C	
	Black		↑ & ↓	XB4-BA3351C	0.07		
				XB4-BZ101C+XB4-BA335C			
	N/C 21 22		Red	○	XB4-BA4322C	0.07	
					XB4-BZ102C+XB4-BA432C		
			Stop	XB4-BA4342C	0.07		
					XB4-BZ102C+XB4-BA434C		
Raised model N/C push button 21 22	Red	○	XB4-BA4342C	0.07			
			XB4-BZ102C+XB4-BL432C				
	Stop	XB4-BA4342C	0.07				
			XB4-BZ102C+XB4-BL434C				
Description		Contact type		Key position removal		Reference	
3 positions stay out		N/O+N/O		Center		XB4-BG33	
3 positions stay out				Left & ringht		XB4-BG53	
Latching mushroom head "emergency stop" pushbuttons							
Push-pull reset		N/C		φ 40	XB4-BT42		
		21 22		N/C	φ 30	XB4-BS442	
				N/C	φ 40	XB4-BS542	
				N/C	φ 60	XB4-BS642	
				N/C	φ 40	XB4-BS142	
Key mushroom head		N/C		φ 40	XB4-BS142		
Description		Contact type	Scheme	Marking on	Degree protection	Reference	
Without pilot light 1 flush green pushbutton 2 projecting red pushbutton	N/O+N/O	13 14	Unmarked	IP40	XB4-BL8325		
				IP65	XB4-BL9325		
		21 22	 ○	IP40	XB4-BL8425		
				IP65	XB4-BL9425		



XB5-BP42



XB5-BS542



XB5-BJ33



XB5-BD33



XB5-BL8425

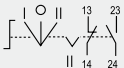
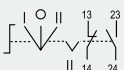


XB5-BA42



XB5-BV65

XB5-B Series Pushbutton Switch

Description	Contact type	Scheme	Color	Reference	
Booted	N/O		Black	XB5-BP21	
			Green	XB5-BP31	
			Yellow	XB5-BP51	
			Blue	XB5-BP61	
				Red	XB5-BP42
Latching mushroom head "emergency stop" pushbuttons					
Push-pull reset		N/C	ϕ 40	XB5-BT42	
		N/C	ϕ 30	XB5-BS442	
		N/C	ϕ 40	XB5-BS542	
		N/C	ϕ 60	XB5-BS642	
	Key mushroom head	N/C	ϕ 40	XB5-BS142	
Description	Scheme	Contact	Operator handle	Reference	
3 positions stay out		N/O+N/O	Standard	XB5-BD33	
			Long	XB5-BJ33	
3 positions stay out 2 pring return		N/O+N/O	Standard	XB5-BD53	
			Long	XB5-BJ53	
Description	Contact type	Scheme	Marking on	Degree protection	Reference
Without pilot light 1 flush green pushbutton 2 projecting red pushbutton	N/O+N/O		Unmarked	IP40	XB5-BL8325
				IP65	XB5-BL9325
				IP40	XB5-BL8425
				IP65	XB5-BL9425
			 		
Description	Scheme	Contact type	Colour	Reference	
Flush		N/O	Black	XB5-BA21	
			Green	XB5-BA31	
			Yellow	XB5-BA51	
			Blue	XB5-BA61	
			N/C	Red	XB5-BA42
Pilot lights					
Supply voltage	Scheme	Supply voltage	Colour	Reference	
Direct bulb supplied		< 380V 50Hz	Green	XB5-BV63	
			Red	XB5-BV64	
			Yellow	XB5-BV65	
			Blue	XB5-BV66	



XAL-B101H29



XAL-B102



XAL-B114



XAL-J174



XAL-J184

Control Stations

Start-stop function (light grey lid with dark grey base)						
Description	Scheme	Contact type	Marking on legend	Marking on button	Reference	Weight (kg)
I green flush pushbutton spring return		N/O+N/C	Start	-	XAL-B101H29	0.120
			-	I	XAL-B102	0.120
			-	Start	XAL-B103	0.120
I red flush pushbutton spring return		N/O	Stop	-	XAL-B111H29	0.120
			-	Stop	XAL-B114	0.120
			-	○	XAL-B112	0.120
I red mushroom head pushbutton, φ 40mm spring return		N/C	Emergency stop	-	XAL-B164H29	0.120
I red flush pushbutton spring return		N/C	-	Stop	XAL-B116	0.120
Emergency stop functions (yellow lid with dark grey base)						
Description	Scheme	Contact type	Marking on legend	Reference	Weight (kg)	
I red mushroom head pushbutton, φ 40mm, latching turn to release		N/C	Unmarked	XAL-J174	0.14	
I red mushroom head pushbutton, φ 40mm, latching key release (key n° 445)		N/C	Unmarked	XAL-J184	0.17	
Emergency stop functions (yellow lid with dark grey base)						
Description	Scheme	Marking on legend	Reference	Weight (kg)		
I red mushroom head pushbutton, φ 40mm, latching turn to release		Unmarked	XAL-J178	0.14		
I red mushroom head pushbutton, φ 40mm, latching key release (key n° 445)		Unmarked	XAL-J188	0.17		



XAL-B211H29



XAL-B213



XAL-B114



XAL-B116



XAL-B361H29



XAL-B373

Control Stations

Start-stop function (light grey lid with dark grey base)						
Description	Scheme	Contact type	Marking on legend	Marking on button	Reference	Weight (kg)
2 spring return pushbutton 1 flush green 1 flush red		N/O+N/C	Start Stop	- -	XAL-B211H29	0.165
			- -	I O	XAL-B213	0.165
			- -	Start Stop	XAL-B215	0.165
1 selector switch 2 position stay put standard black handle		N/O	Start Stop	- -	XAL-B132H29	0.125
			O I	- -	XAL-B314	0.125
1 selector switch key operated (key n° 455) 2 position stay put key withdrawal from LH position		N/C	Start Stop	- -	XAL-B142H29	0.150
			O I	- -	XAL-B144	0.150
Start-stop function (light grey lid with dark grey base)						
Description	Scheme	Contact type	Marking on legend	Marking on button	Reference	Weight (kg)
1 red pilot light direct supply 130V bulb not included (1) + 2 spring return pushbuttons 1 flush green 1 flush red		N/O+N/C	Start Stop	- -	XAL-B361H29	0.200
			- -	I O	XAL-B363	0.200
			- -	Start Stop	XAL-B366	0.200
1 red pilot light 230V supply direct through resistor bulb with BA 9s base fitting-130V (included) + 2 spring return pushbuttons 1 flush green 1 flush red		N/O+N/C	Start Stop	- -	XAL-B371H29	0.205
			- -	I O	XAL-B373	0.205
			- -	Start Stop	XAL-B376	0.205
(1) Bulb types for use with direct supply: -incandescent bulb, BA 9s base fitting: U≤130V, maximum power 2.6W, maximum length: 28mm -neon bulb, BA 9s base fitting: 110V≤U≤380V. Please consult our local representatives or agents						

Pushbutton & Indicator



ABW111-Y



AKW311



ABW411-G



AOW4-G



ABW411-Y



ABW111-G



ABW111-W



ABW111-R



ASW211L



ASW311L



ABW211-G



ABW211-Y



ASW311(3 WAY)



ASW222(2 WAY)



AKW211



ABW211-R

Pushbutton & Indicator



RD-11/K11



RD-10/K01



RD-10/K01



RD-10/K11



RLF



RS/K



RWK-3R/K20



RD-X



RLT



RWH



QDDL-11



XB7-EV45



XB7-EV46



XB7-EV44



XB7-EV41



XB7-EA31



XB7-EA42



AD22-22B



AD22-22C



AD22-22D



AD22-22E



AD22-22F



AD22-22H



AD22-22DRG



AD22-22BFRG



AD22-22BS



AD22-22CS



AD22-22DS



AD22-22ES



AD22-22GB



AD22-22A/41



AD22-22A/40



AD22-16AS



AD22-16A



AD22-16BS



AD22-22AF/41



AD22-25AF/41



AD22-25AB/40



AD25AK/40



AD22-25AN/21



AD22-30A/40

Pushbutton Switch



PL-25N



PL-25N



CA2522



PB2513



PB2511



PB2511



PB30MZ



PB2511D



PB2511M



PB2512



PB30N



PB2511N



PBLFP-30L



ANC-22&25-2P-3PL



ALT-22 & 25L



ALF-22 & 25L



ABLFS-22 & 25L



AL-22L



AL-22L



AKS-22



ALF-22 & 25TEL



AS-22 & 25NL



PPBB-30NL



AL-22TE



ABF-R



ABLFS-R



PBLF-R



ABLFP-R



ANC-R



SIL-9

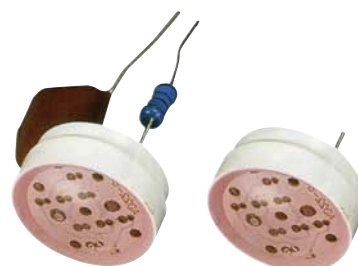
Pilot Lamp



CHIPS-Y



CHIPS-G



CHIPS-R



CHIPS-B

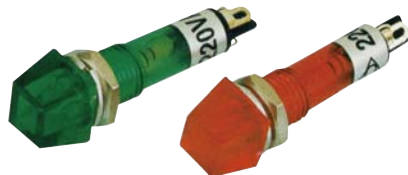
GL-1



φ 7.5 PLN-101C



φ 7.5 PL101A



φ 7.5 PL101B



φ 8.3 PLN-8



φ 8 PED-8



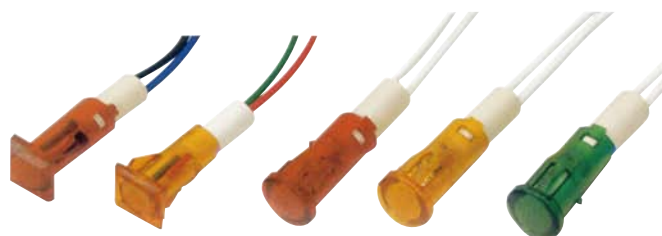
φ 8 PED-7

φ 9 PED-9



φ 11 PED-10

φ 10 PL I -101N



φ 10 ML I -11B

φ 12.5 ML I -14A



φ 12.5 ML I -14B

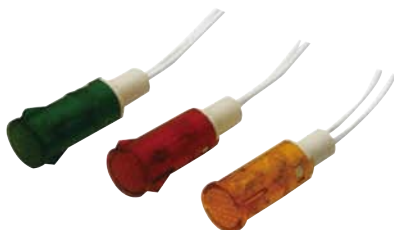


φ 10 PL-101P

Pilot Lamp



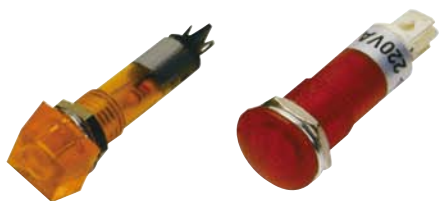
φ 7.5 PLI-7



φ 10 MLI-11A



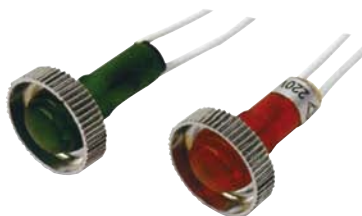
φ 10 PL101P



φ 8.5 MDX-11C



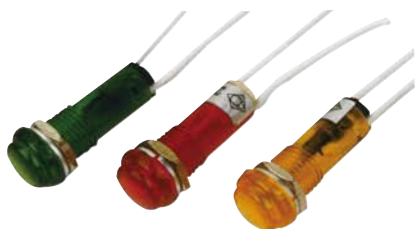
φ 10 PL-101N



φ 10 PL-107A



φ 10 PL-108A



φ 10 PLI-101



φ 10 PL-102



φ 10 PL-103



φ 10 PL-104



φ 10 PL-106C



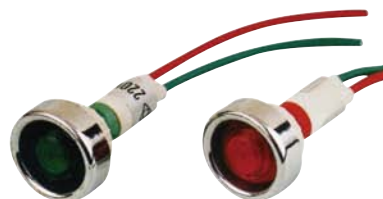
φ 10 PL-105



φ 10 PL-105B



φ 10 PL-108



φ 6 PL-108C



BS211B



BS216B



BS230B

BS, BSH Series Push Button Switch

APPLICATION

BS power push button switch is applicable to the motor of the voltage up to 500V and the capacity up to 3kW for directly starting run and breaking, also for in frequently turning on and off loaded current. Its characteristic of accurate on-off, safe and reliable, high intensity of machinery and widely used in machine tools, textile machinery, etc. The switch is the best choice for machinery power.

SPECIFICATIONS

Type	Rated current (A)	Rated voltage (V)	L x B x H
BSH222	1	500	90 x 50 x 40
BSH223	1	500	115 x 50 x 40

Type	Poles (P)	Rated voltage (V)	Applicable motor capacity kW (HP)	Resistance load (A)	Weight (kg)
BS-230	2, 3	500	220V 0.75 (1)	7.5(10)	0.13
BS-216	2, 3	500	220V 1.5 (3)	15(20)	0.18
BS-211	2, 3	500	220V 2.2 (3)	30(35)	0.23



BSH222



BSH223

COB Series Pushbutton Switch

APPLICATION

COB pushbutton switch is suitable in circuit of AC 50 or 60Hz, rated voltage up to 500V, rated current up to 5A for controlling start and stop of remote motor. It is widely used in machine tool, textile machinery, etc. There are five specifications in this series: 2 lines, 4 lines, 6 lines, 8 lines, 10lines.



COB-2

COB-4



COB-6

COB-8



COB-2T

COB-4T



COB-8T



COBP-A471



COBP-A671



COBP-A6713



COBP-A871



COBP-A691

COBP Water-proof Lifting Button Control Platform

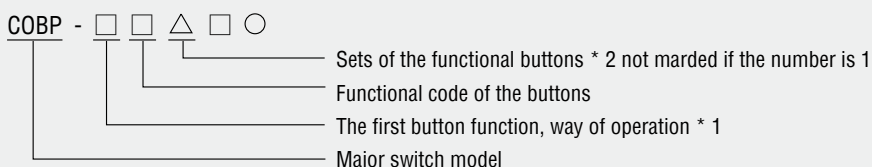
USEGE

Water-proof lifting button switches of COBP series are precisely improved on the same kind of foreign products. They have artistic appearance, rational design and advanced technical competence. Varied sets of functional buttons have been manufactured to complete functions. To meet the demand of the circuit, different sets of functional buttons can be selected freely to fit out a switch platform, which is favourable to different users.

The products are noted for their plastic outer casing, rational design, large capacity triggers and long service life expectancy. They are light and handy to hold. Equipped with rubber protective casings and waterproof seals, the probestive function reaches Grade IP65.

This is why our products are especially suitable for using in the open air encroached upon by rain or snow and in the situation in which they are operated by wet hands, such as in the remote control of lifters and electric blocks.

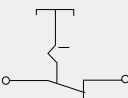
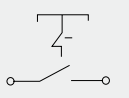
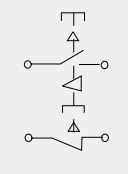
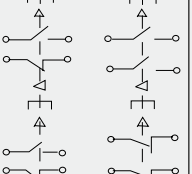
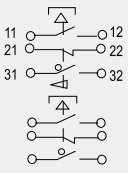
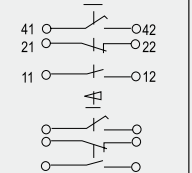
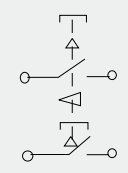
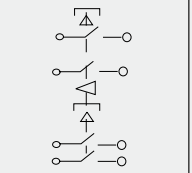
MODELS AND MEANING



*1 sete of power control switches

A-sudden stop Y: key X: handle

FUNCTIONAL CODES OF BUTTONS AND ELECTRIC DIAGRAM (SEE FIG.)

Code	Electric diagram		Feature	Tech parameters
A-power control switch			Self-lock, connect or spearate whirling 30° , auto reset	AC 380V 10(5)A rated V & 1 AC 380V 10(5)A service life one million times
B-Start-stop button			Two buttons inter lock and auto reset, normal-loff separates first and normal-on connects	
S-Double speed button			Two buttons inter lock and auto reset, pressed to the first position normal-off separates and normal-off connects, pressed to the a later normal-on connects	
P-Double speed button			Two buttons inter lock auto reset, single-control normal-on-off	



中国驰名商标



CB

CE



PICC

中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO.,LTD CHINA



Power Supply

Switching Power Supply	120
DIN series MDR series	121
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SVC series	123
AC/DC Inverter	124
TDGCZ, TSGC2 series	125
Control Transformer	126

Switching Power Supply

AC-DC SINGLE GROUP OUTPUT

Type	Power	Input	DC output current(A)											Outline
	W	Note 1	3V	5V	7.5V	9V	12V	13.5V	15V	24V	27V	48V		
S-15-□	15	S		3			1.3			0.7			Picture 1	
S-25-□	25	F		5			2.1		1.7	1.1			Picture 2	
S-35-□	35	S		7			3		2.4	1.5			Picture3	
S-40-□	40	F		8			3.5		2.8	1.8			Picture4	
S-50-□	50	S		10			4.2		3.4	2.14			Picture5	
S-60-□	60	F		12			5		4	2.5			Picture6	
S-75-□	75	S		15			6		5	3			Picture7	
S-100-□	100	S	20	20	13.5		8.5		6.7	4.5	3.7	2	Picture8	
S-100F-□	100	S		20	13.5		8.5		6.7	4.5		2.2	Picture9	
S-145-□	145	S		25	18		12	11.2		6			Picture10	
S-150-□	150	S		30	20	16.7	12.5		10	6.5	5.6	3.2	Picture11	
S-200-□	200	S		40			16.5	14.7	13.3	8.5	7.4		Picture12	
S-201-□	200	S		40	26.5		16.5		13	8.3	7.4	4.2	Picture13	
S-240-□	216-240	A		40	30		18	22	15	10		5	Picture14	
S-250-□	240	S		40			18			10			Picture15	
S-320-□	250-320	S		50	36		25	25.8	20	12.5	11	6.5	Picture16	
S-350-□	250-350	S		50	40		29	20	23.2	14.6	13	7.3	Picture17	
S-500-□	480	F					40	36	32	20	18	10	Picture18	

AC-DC DOUBLE GROUP OUTPUT

Type	Power	Input	DC output current(A)										Outline
	W		Note 1	5V	7.5V	12V	13.5V	15V	24V	27V	48V	bAK2	
D-30A	30	S		4V		1A						AK	Picture1
D-30B	30	S		2.2V					1A			AK	Picture2
D-50A	50	S		6V		2A						AK	Picture3
D-50B	50	S		6V					1A			AK	Picture4
D-60A	60	F		4V		3A						AKB	Picture5
D-60B	60	F		3V					1.8A			AKB	Picture6
D-120A	120	S		12V		5A						AKB	Picture7
D-120B	120	S		6A					4A			AKB	Picture8

AC-DC THREE GROUP OUTPUT

Type	Power	Input	DC output current(A)													Outline
	W		Note 1	5V	-5V	3.3V	12V	-12V	13.5V	15V	-15V	24V	-24V	27V	48V	
T-30A	30	S		3A	0.5A		1A									Picture 1
T-30B	30	S		3A			1A	0.5A								Picture 2
T-40A	40	F		3A	0.5A		2A									Picture3
T-40B	40	F		3A			2A	0.5A								Picture4
T-40C	40	F		3A					1.5A	0.5A						Picture5
T-50A	50	S		7A	1A		1A									Picture6
T-50B	50	S		5A			1A	1A								Picture7
T-50C	50	S		4A					1A	1A						Picture8
T-50D	50	S		3A			1A					1A				Picture9
T-60A	60	F		5A	0.5A		2.5A									Picture10
T-60B	60	F		5A			2.5A	0.5A								Picture11
T-60C	60	F		5A					2A	0.5A						Picture12
T-100C	100	S		10A					2.5A	1A						Picture13
T-100D	100	S		6A			2A					2A				Picture14

AC-DC FOUR GROUP OUTPUT

Type	Power	Input	DC output current(A)													Outline
	W	Note 1	5V	-5V	7.5V	12V	-12V	13.5V	15V	-15V	24V	-24V	27V	48V		
Q-60	60	F	5.5A	0.5A		2A	0.5A								Picture 1	
Q-120B	120	S	11A	1A		4A	1A								Picture 2	
Q-120C	120	S	10A	1A					3.5A	1A					Picture3	
Q-120D	120	S	8A			2A	1A				2A				Picture4	
Q-180	180	S	8A			2A	1A				4A				Picture5	



MDR-30-12



MDR-45-12



MDR-60-12



MDR-75-12

DIN Series MDR Series Switch Power Supply

FEATURES

- Universal AC input / Full range
- Protection: Short circuit / Overload / Overvoltage
- LED indicator for power on
- DC OK relay contact (40W & 60W)
- 100% full load burn-in
- AC input voltage range: 85-264VAC; 120-370VDC
- AC inrush current: Cold start, 20A at 115VA, 40A at 230AC
- DC adjustmet range: $\pm 10\%$ rated output voltage
- Overload protection: 105%-160% constant current limiting, auto-recovery
- Over voltage protection: 115%-135% rated output voltage
- Setup, rise, hold up time: 500ms, 30ms, 50ms at full load and 230VAC
- Withstand voltage: I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, 1minute
- Working temperature: -20~50°C @ 100%, 70°C @50% load
- DC OK signal: Open collector
- Safety standards: UL 508, TUV EN60950-1 approved
- EMC standards: EN55022 class B, EN61000 -3 -2, -3, EN50204, EN61000 -4 -2, 3, 4, 5, 6, 8, 11, EN61204-3, (EN61000 -6 -2 heavy industry level also for 40W & 60W)
- Connection: I/P: 3 poles, O/P: 3 poles screw DIN terminal
- Dimension (W x H x D): 22.5 x 90 x 100 (mm)
- Installed on DIN rail TS35 / 7.5 or 15
- NO load power consumption < 0.75 W
- DC OK sigal ouput (20 W)
- Cooling by free air condition
- 2 years warranty

Model	Output	Tolerance Voltage	Ripple And noise	Efficiency
MDR-20-5	5V, 0-3A	$\pm 2\%$	80mvp-p	76%
MDR-20-12	12V, 0-1.67A	$\pm 1\%$	120mvp-p	80%
MDR-20-15	15V, 0-1.34A	$\pm 1\%$	120mvp-p	81%
MDR-20-24	24V, 0-1.0A	$\pm 1\%$	150mvp-p	84%
MDR-30-5	5V, 0-3A	$\pm 2\%$	80mvp-p	74%
MDR-30-12	12V, 0-2A	$\pm 1\%$	120mvp-p	81%
MDR-30-24	15V, 0-2A	$\pm 1\%$	120mvp-p	82%
MDR-30-48	24V, 0-1.5A	$\pm 1\%$	150mvp-p	83%
MDR-40-5	5V, 0-3A	$\pm 2\%$	80mvp-p	76%
MDR-40-12	12V, 0-1.67A	$\pm 1\%$	120mvp-p	80%
MDR-40-15	15V, 0-1.34A	$\pm 1\%$	120mvp-p	81%
MDR-40-24	24V, 0-1.0A	$\pm 1\%$	150mvp-p	84%
MDR-45-5	5V, 0-3A	$\pm 2\%$	80mvp-p	76%
MDR-45-12	12V, 0-3.5A	$\pm 1\%$	120mvp-p	86%
MDR-45-15	15V, 0-2.8A	$\pm 1\%$	120mvp-p	88%
MDR-45-24	24V, 0-2A	$\pm 1\%$	150mvp-p	87%
MDR-60-5	5V, 0-3A	$\pm 2\%$	100mvp-p	72%
MDR-60-12	12V, 0-1.67A	$\pm 1\%$	200mvp-p	77%
MDR-60-15	15V, 0-1.34A	$\pm 1\%$	240mvp-p	77%
MDR-60-24	24V, 0-1.0A	$\pm 1\%$	480mvp-p	80%
MDR-75-12	12V, 0-6.3A	$\pm 2\%$	120mvp-p	84%
MDR-75-15	24V, 0-3.2A	$\pm 1\%$	120mvp-p	85%
MDR-75-24	48V, 0-1.6A	$\pm 1\%$	150mvp-p	86%
MDR-100-12	12V, 0-7.5A	$\pm 1\%$	100mvp-p	76%
MDR-100-15	15V, 0-6.5A	$\pm 1\%$	150mvp-p	80%
MDR-100-24	24V, 0-4.2A	$\pm 1\%$	240mvp-p	81%
MDR-120-12	12V, 0-6.3A	$\pm 2\%$	80mvp-p	80%
MDR-120-24	24V, 0-3.2A	$\pm 1\%$	80mvp-p	84%
MDR-120-24	48V, 0-1.6A	$\pm 1\%$	100mvp-p	85%
MDR-240-24	24V, 0-10A	$\pm 1\%$	80mvp-p	84%
MDR-240-48	48V, 0-5A	$\pm 1\%$	150mvp-p	85%
MDR-480-24	24V, 0-20A	$\pm 1\%$	120mvp-p	89%
MDR-480-48	48V, 0-10A	$\pm 1\%$	120mvp-p	89%

UPS Uninterruptible Power Supply



Product		High Frequency on line UPS (1kVA~3kVA)					
Type		G1K	G2K	G3K	G1KS	G2KS	G3KS
Rated power	VA/W	1kVA/0.7kW	2kVA/1.4kW	3kVA/2.1kW	1kVA/0.7kW	2kVA/1.4kW	3kVA/2.1kW
Input	Nominal voltage	220VAC (or 230/240V AC)					
	Voltage range	118~300VAC					
	Frequency range	46~54Hz (default). user adjustable within 40-60Hz					
	Power factor	> 0.97					
	Connection	IEC320-10A inlet		IEC320-16A inlet	IEC320-10A inlet		IEC320-16A inlet
Output	Voltage	220VAC ± 1%(or 230/240VAC ± 1%)					
	Frequency	46~54Hz or 50Hz ± 0.1Hz(Line mode)					
	Wave form	Sine Wave					
	Distortion	3%	4%		3%	4%	
	Overload capability	110%~150% for 30 sec., ≥150% for 200ms					
	Current crest ratio	3:1					
	Connections	IEC320-4	IEC320-6	IEC320-3&terminal block	IEC320-4	IEC320-6	IEC320-3&terminal block
Battery	Type	Sealed, maintenance free, lead-acid					
	Nominal DC voltage				36VDC	96VDC	
	Quantity				Depends on the requested back-up time		
	Back-up time (full load)	3 Pieces	8 Pieces		Depends on the capacity of the external battery bank		
	Recharge time	5 min	9 min	5 min	Depends on the capacity of the external battery bank		
Bypass	Automatic transfer	On overload and UPS failure					
	Before UPS power-on	Default "NO", user adjustable to "YES"					
	Voltage range	80~264V AC (default), user adjustable within 80~286VAC					
Transfer time		0ms; less than 4ms from inverter to bypass and vice versa					
LED indicators	Status	Load level/Battery level, battery, utility power, inverter, bypass, overload, fault					
Audible alarm		Bypass, on battery mode, battery low, overload, fault					
Acoustic noise	At 1 meter distance	45 dB	50 dB		45 dB	50 dB	
Communications	DB-9 port	RS-232 serial interface					
	Intelligent slot	Options: SMNP card, AS400 card of winpower CMC/(USB Port)					
Network surge protection		RJ45 I/O port available for network of Fax/ Modem					
Environmental	Operating temperature	0~40℃					
	Operating humidity	20~90% non-condensing					
Weight	Net (kg)	13	31.5	32	7	13.5	14
Dimensions	W x L x H(mm)	145 x 400 x 220	192 x 460 x 348	192 x 460 x 348	145 x 400 x 220	192 x 460 x 348	192 x 460 x 348



SVC-3000VA



SVC-5000VA



SVC-9KVA

SVC Series Automatic Voltage Stabilizer

APPLICATION

SVC automatic voltage stabilizer consists of contact voltage regulator, sampling control circuit and servomotor as well. It has excellent features, such as small waveform distortion, high efficiency, high power factor, free from the effect or frequency variation of supply. It can be widely used in most situations where the voltage stabilization is required.

SPECIFICATION

Input voltage	150V-250V
Output voltage	220V $\pm$ 3%, 110V $\pm$ 3%
Frequency	50/60Hz
Response time	< 1sec. (against 10% input voltage deviation)
Efficiency	> 90%
Ambient temperature	-10~ $\pm$ 40 °C
Relative humidity	< 90%
Waveform distortion	Non-lack fidelity waveform
Power factor cos ϕ	0.8
Insulation resistance	> 5M Ω

OUTLINE AND PACKING

Type	Outline (cm)			Weight (kg)	Qty/CTN
	L	W	H		
SVC-500VA	18.5	15	12.5	3.8	4PCS
SVC-1000VA	21	18	14.5	6	4PCS
SVC-1500VA	21	18	14.5	6.5	4PCS
SVC-2000VA	27.5	23.5	18.5	9.5	1PC
SVC-3000VA	29	23	22	13	1PC
SVC-5000VA	45	24	18.5	19	1PC
SVC-7500VA	47	26	22	35	1PC
SVC-10000VA	47	26	22	37	1PC
SVC-15000VA	42	38	73	69	1PC
SVC-20000VA	42	38	73	72	1PC
SVC-30000VA	42	38	83	90	1PC
SVC-5kVA	28	30	46	20	1PC (Cabinet)
SVC-10kVA	44	32	56	30	1PC (Cabinet)



ZUP-500VA



ZUP-1000VA



ZUP-2000VA

AC/DC Inverter

APPLICATION

AC/DC inverter is designed for switching DC24V to AC 110~220V. They can be used outdoors or on home appliance as emergency power. Usually, cord with AC power socket and the DC power cord with DC battery. When the load connects to the DC power cord with DC power, if the commercial power falls, the inverter will convert the battery voltage to AC voltage and go on supplying. When the commercial power restarts, the inverter will switch to charge the battery by itself. When the battery is fully charged, it will stop automatically.

Feature

AC voltage available for AC 100V, 110V, 120V, 220V, 230V or 240V at request.

Each unit contains two AC sockets available for two pin plugs.

Automatic function change for inverter or battery charge.

Selective 4 AC voltage for each unit, such as when AC 110V, it will be available for AC 110V, 120V, 130V and 140V.

Different led indicator for function of inverter and charger.

Each unit contains a AC cord for AC input voltage besides.

Model ZUP-300 and ZUP-300A unit contains an extra power cord for DC battery.

Products applicable for:

- A. Personal computer.
- B. Various video/audio equipment. (TV, casset, tape record, etc.)
- C. Small motor equipment.
- D. Various lighting equipment.

Protection:

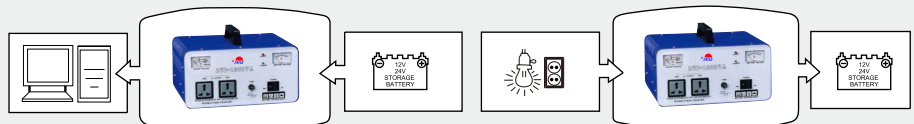
- a. Protection for short circuit and polarity reverse of battery.
- b. Overload fuse protection for charging current, input voltage and output voltage.

SPECIFICATION

Type	DC Voltage	Capacity	Charging current
ZUP-300VA	DC12V, 24V	max. 300W	max. 25A
ZUP-500VA	DC12V, 24V	max. 500W	max. 35A
ZUP-1000VA	DC12V, 24V	max. 1000W	max. 35A
ZUP-1500VA	DC12V, 24V	max. 1500W	max. 45A
ZUP-2000VA	DC12V, 24V	max. 2000W	max. 60A

Two outlets are incorporated for the simultaneous use of both the 110V and 220V outlets. The sockets are of a type that is capable of accepting two different types of plugsprongs and blades of two different forms.

Built-in overload protection circuit and overdischarge protection circuit.



Batteries can be easily charged using home AC power source.

Battery charging will be made safer than using automatic charging voltage control system.



TDGC2



TSGC2

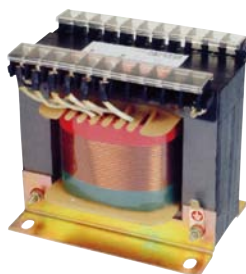
TDGC2 TSGC2 Series Contact Voltage Regulator

APPLICATION

The product is characterised of non-lack fidelity in waves, portable size, light weight, high efficiency, convenience to use, reliability in nonvement. It is widely used in chemical, metallurgical meter and instrument, machine-buliding and light industres, for voltage regulating, air conditioning, air conditioning speed, light and rate regulating, it is and ideal AC regulating power supply.

MAIN TECHNICAL PARAMETER

Type	Rated capacity (kVA)	No.of phase	Nominat frequency (Hz)	Rated input voltage	Rated output voltage(V)	Rated output voltage(V)
TDGC2-0.2	0.2	1	50	220	0-250	0.8
TDGC2-0.5	0.5					2
TDGC2-1	1					4
TDGC2-2	2					8
TDGC2-3	3					12
TDGC2-4	4					16
TDGC2-5	5					20
TDGC2-7	7					28
TDGC2-10	10					40
TDGC2-15	15					80
TDGC2-20	20	3	50	380	0-430	80
TDGC2-30	30					120
TSGC2-3	3					4
TSGC2-6	6					8
TSGC2-9	9					12
TSGC2-12	12					16
TSGC2-15	15					20
TSGC2-20	20					27
TSGC2-30	30					40



Control Transformer

GENERAL

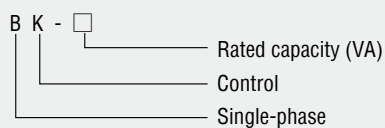
Electric ratings: AC 50-60Hz

Application: for control power supply of apparatus, partial illumination and indicator light of machine tool and other mechanic equipments.

FEATURES

The transformer is characterized by excellent performances, reliable operation, compact design, safe wiring, and wide application, etc.

TYPE DESIGNATION



TECHNICAL DATA

Model	Capacity (VA)	Rated input voltage(V)	Rated output voltage(V)	Frequency (Hz)
BK-25	25	220、380	6, 12, 24, 36, 110, 127, 220, 380	50/60
BK-50	50			
BK-100	100			
BK-150	150			
BK-200	200			
BK-250	250			
BK-300	300			
BK-400	400			
BK-500	500			
BK-700	700			
BK-1000	1000			
BK-1500	1500			
BK-2000	2000			
BK-3000	3000			
BK-4000	4000			
BK-5000	5000			

Note: Customized products are available.



中国驰名商标



CB

CE



PICC

中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO.,LTD CHINA



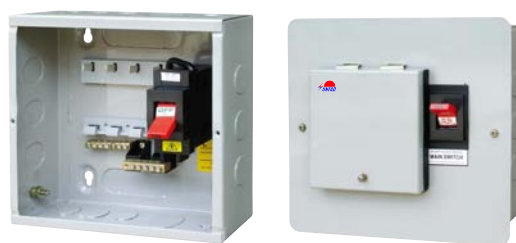
Distribution Box

DASS, DBSS series	128
ZY, ABC, SM, SA series	129
HPK series	130
TSM (Surface Mounting)	130-131
TSM (Flush Mounting)	131
LGD Flush Distribution Box	132
CRT series	132
ST Boxes	133-134

DASS DBSS Distribution Box

APPLICATION

DASS-DBSS distribution system is suitable for circuit of AC 50/60Hz, rated voltage up to AC 660V, rated current up to 125A of distributing control of modern building such as large office mansion, hotel, commerce department industrial and mining enterprises and so on. It can protect electric appliances from overload voltage & current it also can short and frequent switch ON/OFF under normal operating condition. It is one of the most reliable general distribution system in the world 3 ways, 4 ways, 6 ways, 8 ways, 10 ways & 12 ways are available.



1 phase 4 ways



1 phase 4 ways



1 phase 6 ways



1 phase 10ways



1 phase 8 ways



3 phase 12 ways



3 phase 18 ways

Distribution Box

APPLICATION

Combination illuminating distribution box is suitable for distributing control of modern buildings such as large stories buildings, guesthouse, passenger transport station, commercial net point, laboratory, factory, enterprises etc., used in AC 50-60Hz, below 415V illuminating and mini power controlling circuit as over current, overload & short circuit protection and frequency switch under the rated working state. 1 line, 2 lines, 4 lines, 6 lines, 8 lines, 12 lines, 18lines, 24 lines & 36 lines are available.

Model	Way	Model	Way
ZY-4	4	ABC-500	8
ZY-6	6	ABC-700	12
ZY-8	8	ABC-900	14
ZY-12	12	ABC-1019	18
ZY-16	16		



ZY-4 4 ways



ZY12 12ways



ABC-500 8 ways



ABC-700 12 ways



JDM-1



JDM-2



JDM-4



JDM-6



JDA-4



JDA-8



JDA-16



JDA-18

HPK Series Distribution Box



HPK 3



HPK 5



HPK 7



HPK 10



HPK-12



HPK-15



HPK-18

TSM Series Distribution Box (Surface Mounting)



TSM 4-T



TSM 4



TSM 6-T



TSM 6



TSM 8-T



TSM 8



TSM 12-T



TSM 12

TSM Series Distribution Box (Surface Mounting)



TSM 15



TSM 18



TSM 24



TSM 36

TSM Series Distribution Box (Flush Mounting)



TSM 2-3



TSM 4



TSM 6



TSM 8



TSM 12



TSM 15



TSM 18



TSM 24



TSM 30



TSM 36

LGD Series Flush Distribution Box



LGD-2-3



LGD-6



LGD-8



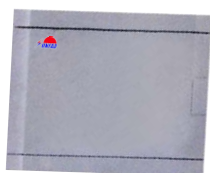
LGD-12



LGD-18



LGD-24



AC-12

SPECIFICATION

Type	No. poles	Protection degree
LGD-2-3	2-3W	IP40
LGD-6	6W	IP40
LGD-8	8W	IP40
LGD-12	12W	IP40
LGD-18	18W	IP40
LGD-24	24W	IP40
AC-12	12W	IP40

CRT Series Distribution Box

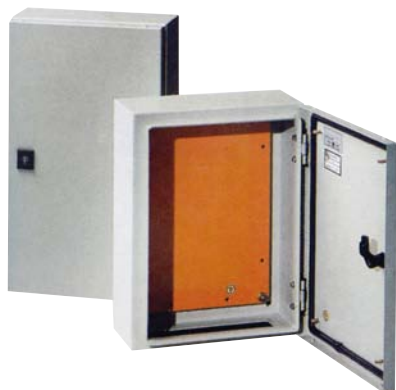


APPLICATION

Distribution system is suitable for circuit of AC 50/60Hz, rated voltage up to AC 660V, rated current up to 125A of distributing control of modern building such as large office mansion, hotel, commerce department, industrial and mining enterprises and so on. It can protect electric appliances from overload voltage & current. It also can short and frequent switch ON/OFF under normal operating condition. It is one of the most reliable general distribution system in the world.

SPECIFICATION

1 Phase	4, 6, 9, 12 lines
3 Phase	4, 6, 8, 10, 12 lines



CT Boxes

CONSTRUCTION

Body and door manufactured in 1.5mm sheet steel.
Flat mounting plate in 2.5mm sheet steel.

FINISH

SUNFAD standard cycle thermosetting epoxypolyester power coating.
Case and door RAL 7032 textured finish.
Mounting plate in RAL 2004 smooth finish.

PROTECTION DEGREE

IP 65 to EN60 529 NEMA 4.

PACKING

Boxes are complete with:
2 zincpassivated rails to be fixed on the door.
Mounting plate.
Gland plate and gasket.
Package with hardware for earth connection and screws to mount all components.
Locking system with 3mm double bar key.

SPECIFICATION

Model	Dimension		
	A	B	C
CT-2215	200	200	150
CT-2515	250	200	150
CT-2315	300	200	150
CT-2320	300	200	200
CT-3320	300	300	200
CT-3325	300	300	250
CT-3415	400	300	150
CT-3420	400	300	200
CT-3430	400	300	300
CT-4415	400	400	150
CT-4420	400	400	200
CT-4425	400	400	250
CT-4430	400	400	300
CT-3515	500	300	150
CT-3520	500	300	200
CT-3525	500	300	250
CT-3530	500	300	300
CT-4515	500	400	150
CT-4520	500	400	200
CT-4525	500	400	250
CT-4530	500	400	300
CT-5515	500	500	150
CT-5530	500	500	300
CT-4615	600	400	150
CT-4620	600	400	200
CT-4630	600	400	300
CT-5620	600	500	200

CT Boxes

CONSTRUCTION

Body and doors manufactured in 1.5mm sheet steel.
Mounting plate with folded edge in 2.5mm sheet steel.

FINISH

SUNFAD standard cycle thermosetting epoxypolyester powder coating.
Body and doors RAL 7032 textured finish.
Mounting plate in RAL 2004 smooth finish.

PROTECTION DEGREE

IP 55 to EN60 529 NEMA 12.

PACKING

Boxes are complete with:

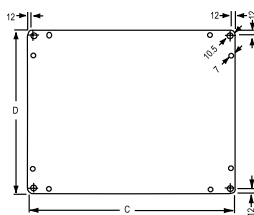
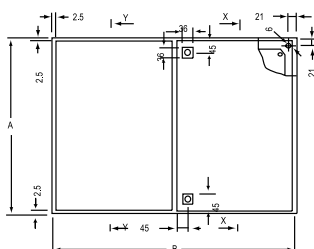
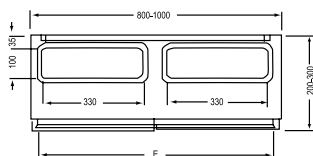
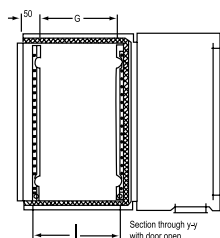
4 zincpassivated rails to be fixed on the door.

Mounting plate.

2 gland plates and gasket.

Package with hardware for earth connection and screws to mount all components.

Locking system with 3mm double bar key.



SPECIFICATION

Model	Dimension		
	A	B	C
CT-6615	700	600	150
CT-6620	700	600	200
CT-5720	700	500	200
CT-5725	800	500	250
CT-6720	800	600	200
CT-6820	800	600	200
CT-8820	1000	800	200
CT-8830	1000	800	300
CT6-1020	1000	600	200
CT6-1025	1000	600	250
CT6-1030	1000	600	300
CT8-1020	1000	800	200
CT10-1025	1000	1000	250
CT10-1030	1000	1000	300
CT6-1220	1000	600	200
CT6-1220	1000	800	200
CT6-1430	1400	600	300
CT8-1430	1400	800	300
CT8-1630	1600	800	300
CT10-1630	1600	1000	300
CT10-1630	1800	1000	300



中国驰名商标



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中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO., LTD CHINA



Vacuum Interrupter

TD-12/630-20	136
BD-12/630-20	137
BD-12/630- ^{12.5} ₁₆	138
TD-12/630-20	139



BD-12/630-20 Circuit-breaker Used Glass Vacuum Interrupter

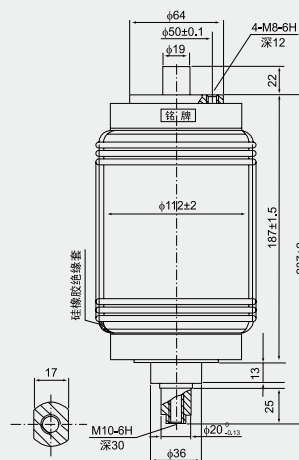
BRIEF INTRODUCTION

The interrupter adoption porcelain and ceramic lagging makes to insulate the outer shell. Contact is CuCr50 metal alloy material advanced technique of coil cross electromagnet construction, break the discharge big. insulate the level high, breaking the ability strong the life span is long, maintenance is simple, no explosion dangerous, no contaminate and the noise is low. The load switch mainly used electric power, machine, coal potect. more than keeping with at the multifarious operation.

MAIN TECHNICAL PARAMETERS

Parameter name	Unit	Value
Rated voltage	kV	12
Rated normal current	A	630
Rated short - circuit breaking current	kA	20
Rated short - circuit making current	kA	50
Rated peak withstand current	kA	50
Rated short - time withstand current	kA	20
Rated back to back capacitor unit breaking current	S	4
Rated single capacitor unit breaking current	A	630
Rated back to back capacitor unit breaking current	A	400
Rated back to back capacitor unit breaking current	kV	42
Rated contact pressure time - limit loop resistive	$\mu \Omega$	≤ 30
Rated short circuit breaking current breaking times	Hypo-	30
Rated lightning impulse withstand voltage	kV	75
Mechanical life	Hypo-	10000
Contact automatic	N	80 ± 30
Force required to hold contacts open at full stroke	N	140 ± 40
Contact - wear allowance thickness	mm	3

OUTLINE AND MOUNTING SIZE



BD-12/630-^{12.5}/₁₆ Circuit-breaker Used Glass Vacuum Interrupter

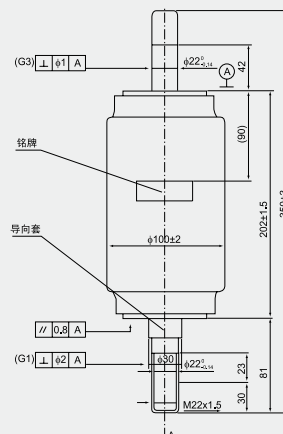
BRIEF INTRODUCTION

The interrupter used embedded construction, glass outer shell. Contact is CuCr50 metal alloy mat - erial advanced technique of cup construction, break the discharge big. insulate the level high, breaking the abiltling strong the life span is long, maintenane is simple, no explosion dangerous, no contaminate and the noise is now. The load switch main used electric power, machine, coal potect. more than keep - ing with at the multifarious operation.

MAIN TECHNICAL PARAMETERS

Parameter name	Unit	Value
Rated vottage	kV	12
Rated normal current	A	630
Rated short - circuit breaking current	kA	12.5、16
Rated short - circuit making current	kA	40
Rated peak withstand current	kA	40
Rated short - time withstand current	kA	12.5、16
Rated back to back capacitor unit breaking currrent	S	4
Rated sing capacitor unit breaking currrent	A	630
Rated back to back capacitor unit breaking currrent	A	400
Rated back to back capacitor unit breaking current	kV	42
Rated contact pressure time - limit loop resistive	$\mu \Omega$	≤ 30
Rated short circuit breaking current breaking times	Hypo-	30
Rated lightning impulse withstand voltage	kV	75
Mechanical life	Hypo-	10000
Contacr automatic	N	100 ± 50
Force required to hold caontacts open at full stroke	N	180 ± 50
Contact - wear allowance tickness	mm	3
Internal gas pressure	Pa	$\leq 1.33 \times 10^{-3}$
Storage period	year	20

OUTLINE AND MOUNTING SIZE





TD-12/630-20 Circuit-breaker Used Glass Vacuum Interrupter

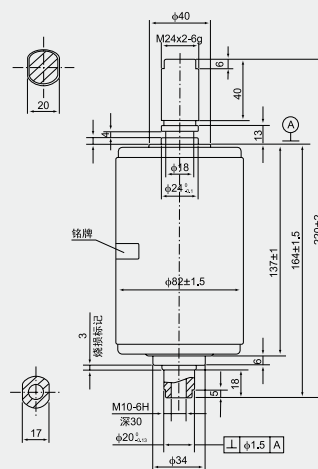
BRIEF INTRODUCTION

The interrupter used embedded construction, glass outer shell. Contact is CuCr50 metal alloy material advanced technique of cup construction, break the discharge big. insulate the level high, breaking the ability strong the life span is long, maintenance is simple, no explosion dangerous, no contaminate and the noise is low. The load switch main used electric power, machine, coal potect. more than keeping with at the multifarious operation.

MAIN TECHNICAL PARAMETERS

Parameter name	Unit	Value
Rated votage	kV	12
Rated normal current	A	630
Rated short - circuit breaking current	kA	20
Rated short - circuit making current	kA	50
Rated peak withstand current	kA	50
Rated short - time withstand current	kA	20
Rated back to back capacitor unit breaking current	S	4
Rated sing capacitor unit breaking current	A	630
Rated back to back capacitor unit breaking current	A	400
Rated back to back capacitor unit breaking current	kV	42
Rated contact pressure time - limit loop resistive	$\mu \Omega$	≤ 30
Rated short circuit breaking current breaking times	Hypo-	30
Rated lightning impulse withstand voltage	kV	75
Mechanical life	Hypo-	10000
Contacr automatic	N	80 ± 30
Force required to hold caontacts open at full stroke	N	140 ± 40
Contact - wear allowance tickness	mm	3
Internal gas pressure	Pa	$\leq 1.33 \times 10^{-3}$
Storage period	year	20

OUTLINE AND MOUNTING SIZE





中国驰名商标



CB

CE



PICC

中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO., LTD CHINA



Copper Terminal

Preinsulation Terminal	141-142
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Preinsulation Terminal

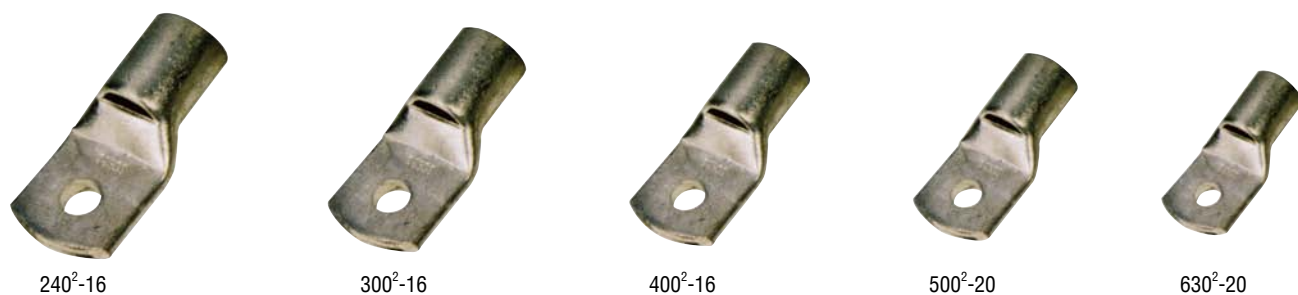
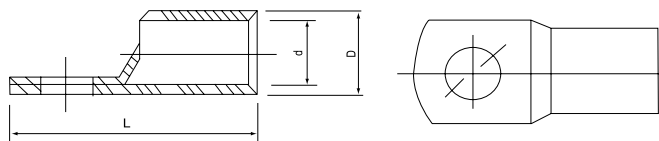
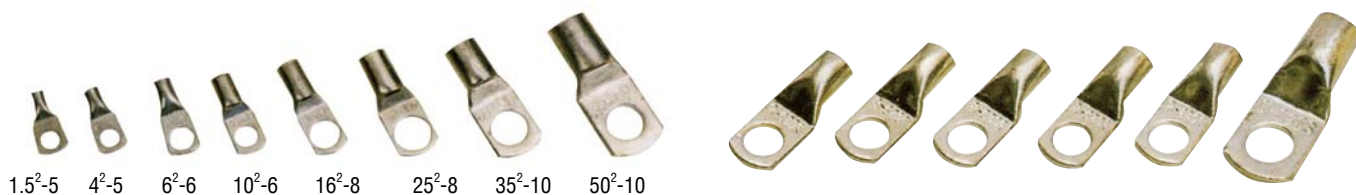
AWG22-16 DIN 0.5-1.5mm ²					
Bolt mouth dimension	3.2mm	3.7mm	3.7mm	3.7mm	4.3mm
Item	RV1.25-3.2	RVS1.25-3.7	RVM1.25-3.7	RVL1.25-3.7	RVS1.25-4
AWG22-16 DIN 0.5-1.5mm ²					
Bolt mouth dimension	4.3mm	5.3mm	6.5mm	8.4mm	10.5mm
Item	RVL1.25-4	RV1.25-5	RV1.25-6	RV1.25-8	RV1.25-10
AWG16-14 DIN 1.5-2.5mm ²					
Bolt mouth dimension	3.2mm	3.7mm	3.7mm	4.3mm	4.3mm
Item	RV2-3.2	RVS2-3.7	RVM2-3.7	RVS2-4	RVL2-4
AWG16-14 DIN 0.5-1.5mm ²					
Bolt mouth dimension	5.3mm	5.3mm	6.5mm	8.4mm	10.5mm
Item	RVS2.5	RVL2-5	RV2-6	RV2-8	RV2-10
AWG14-12 DIN 2.5-4mm ²					
Bolt mouth dimension	4.3mm	5.3mm	6.5mm		10.5mm
Item	RV3.5-4	RVS3.5-5	RV3.5-6		RV5.5-10
AWG12-10 DIN 4-6mm ²					
Bolt mouth dimension	4.3mm	4.3mm	5.3mm	6.5mm	8.4mm
Item	RVS5.5-4	RVL5.5-4	RV5.5-5	RV5.5-6	RVS5.5-8
AWG22-16 DIN 0.5-1.5mm ²					
Bolt mouth dimension	3.2mm	4.3mm	3.7mm	4.3mm	4.3mm
Item	SV1.25-3.2	SVS1.25-3.7	SVL1.25-3.7	SVS1.25-4	SVM1.25-4
AWG16-14 DIN 1.5-2.5mm ²					
Bolt mouth dimension	5.3mm	6.5mm	3.2mm	3.7mm	4.3mm
Item	SVS1.25-5	SVS1.25-6	SV2-3.2	SVS2-3.7	SVM1.25-4

					
5.3mm SVS2-5	6.5mm SVS2-6	4.3mm SV3.5-4	5.3mm SV3.5-5		
					
5.3mm SV5.5-4	6.5mm SVS5.5-6	6.5mm SVL5.5-8	6.5mm SV5.5-8		
					
1.75 x 0.5/0.8 FDD1-187	6.35 x 0.5/0.8 FDD2-187	4.75 x 0.5/0.8 FDD2-187	6.35 x 0.8 FDD2-250	6.35 x 0.8 FDD2-250	
					
E1008	E1008	E1508	E2508	E4009	E1012
					
2.5 x 12 PTV5-13	4.6 x 13 PTV5-13	Plate shape preinsulation terminal	2.3 x 10 DBV1-10	2.3 x 10 DBV2-10	2.8 x 10 DBV5-10
					
6.35 x 0.8 MDD5-250	6.35 x 0.8 MDD5-250	Bullet shape male preinsulation splice	4mm MPD1-156	4mm MPD2-156	4mm MPD5-195
					
5mm HV5-5	5mm HV5-5	Long full insulation intermediate splice	BV1	BV2	BV5
					
RVT5	RVT5	Bullet shape female full insulation splice	4mm FRD1-156	5mm FRD2-195	5mm FRD5-195
					
	Concave sheet shape pre-insulation terminal	LBV1-3			

End Junction of Red Copper

APPLICATION

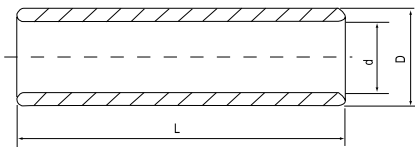
These products are suitable for the connection of copper conductors (section 1.5-1000mm²) in power cable with electronic equipment they are made of with higher 99.9 percent pure copper tube T2 and coated with tin. Working temperature -55°C~150°C.



SPECIFICATIONS

Type	SC-1.5	SC-2.5	SC-4	SC-6	SC-10	SC-16	SC-25	SC-35	SC-50	SC-70	SC-95
Φ	Φ 4, Φ 5	Φ 4, Φ 5, Φ 6	Φ 5, Φ 6	Φ 5, Φ 6, Φ 8	Φ 6, Φ 8	Φ 6, Φ 8, Φ 10	Φ 6, Φ 8, Φ 10, Φ 12	Φ 8, Φ 10, Φ 12	Φ 8, Φ 10, Φ 12	Φ 8, Φ 10, Φ 12	Φ 10, Φ 12
D	3.5	4	4.8	5.5	6.8	7.5	9	10.5	12.5	14.5	17.5
d	1.8	2.5	3.1	3.8	4.8	5.5	7	8.2	9.8	11.5	13.8
L	18	19	21	24	25.5	30.5	34	38	45	50	55.5

Type	SC-120	SC-150	SC-185	SC-240	SC-300	SC-400	SC-500	SC-630	SC-800	SC-1000
Φ	Φ 12, Φ 16	Φ 12, Φ 16	Φ 16	Φ 16	Φ 12, Φ 20	Φ 16, Φ 20	Φ 16, Φ 20	Φ 20	Φ 22	Φ 22
D	19.5	20.5	23.5	26	30	34	38	45	50	56
d	15.5	16.5	18.8	21	24	27	30	35	40	44
L	63	71	78	92	102	113	123	135	170	200



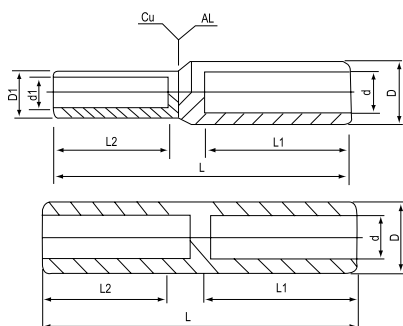
GT Series Copper Connecting Tube

APPLICATION

GT series cable connectors are applicable for the connection of the circular wire with power supply cable in distribution equipment. They are made of tin coated 99.9% percent pure copper tube and coated in.

SPECIFICATIONS

Type	D(mm)	d(mm)	L(mm)
GT-1.5	3.7	1.8	20
GT-2.5	4	2.5	20
GT-4	4.8	3.1	20
GT-5.5	5.5	3.8	25
GT-10	6.8	4.8	30
GT-16	7.5	5.5	35
GT-25	9	7	40
GT-35	10.5	8.2	45
GT-50	12.5	9.8	50
GT-70	14.5	11.5	55
GT-95	17.5	13.5	60
GT-120	19.5	15	65
GT-150	21	16.5	70
GT-185	23.5	18.5	75
GT-240	26.5	21	80
GT-300	30	24	85
GT-400	34	27	90
GT-500	38	30	100
GT-630	45	35	110
GT-800	50	39	150
GT-1000	56	44	170



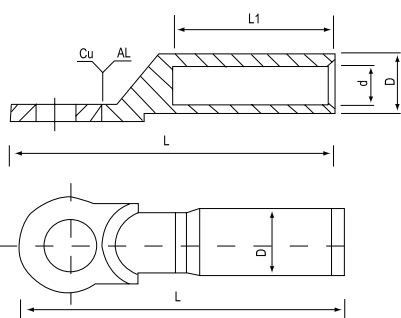
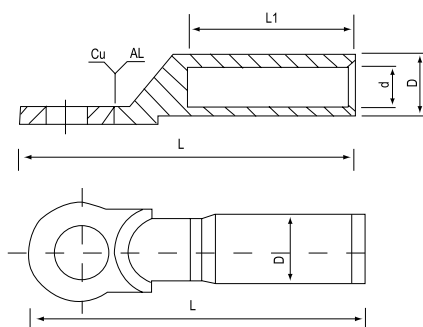
GTL Series Connection Tubes

APPLICATION

These products are applicable to connect the circular wire and hemicycle wire in distribution equipment or power supply cables. GT series hole-passing connection tube is made of friction-welding craft, both top quality.

SPECIFICATIONS

Type	D(mm)	d(mm)	D1(mm)	d1(mm)	L1(mm)	L2(mm)	L(mm)
GTL-16	10	6	9	5	30	30	70
GTL-25	11	7	9	6	33	30	75
GTL-35	13	8.5	11	7	40	30	85
GTL-50	14	9.8	12	8.5	42	32	95
GTL-70	18	11.5	14	9.5	50	38	105
GTL-95	20	13.5	16	11.5	50	40	110
GTL-120	22	15	19	13.5	55	42	112
GTL-150	24	17	21	15	55	44	118
GTL-185	27	18.5	23	17	60	46	125
GTL-240	30	21	26	18.5	60	54	130
GTL-300	34	23	28	21	65	56	145
GTL-400	45	27	30	23	70	60	155
GTL-500	47	29	34	27	75	65	165
GTL-630	54	35	38	29	80	70	180



DTL Copper-aluminium Connecting Terminals

APPLICATION

DTL series of copper-aluminium wiring terminals are suitable for transition connection of the circular aluminium wires, hemicycle-sector aluminium wires, power supply cables in the distribution equipment and copper terminals of the electrical equipment. The material of aluminium and copper is that of L3 and T2 respectively. The technology of friction welding is wonderfully adopted. Therefore they have distinguishing features of strong weld intensity, good nature in electrification, galvanic corrosion resistant and long service life.

SPECIFICATIONS

Type	ϕ	D	d	L	L1
DTL-2-16	13	16	5.5	87	42
DTL-2-25	13	16	6.5	87	42
DTL-2-35	13	16	8	87	42
DTL-2-50	13	20	9	87	43
DTL-2-70	13	20	11	87	43
DTL-2-95	13	20	12.5	87	43
DTL-2-120	13	25	13.5	111	60
DTL-2-150	13	25	15.5	111	60
DTL-2-185	13	32	17.5	116	60
DTL-2-240	13	32	19.5	116	60
DTL-2-300	13	34	22.5	120	62

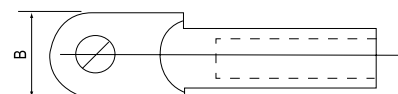
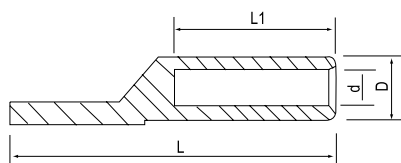
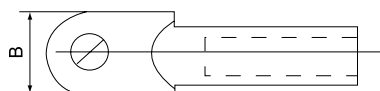
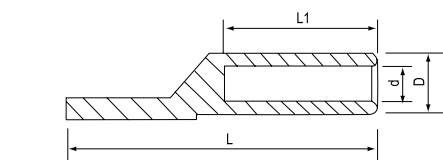
Type	ϕ	D	d	L	L1	B
DTL-1-10	8.5	10	6	68	28	16
DTL-1-16	8.5	11	6	70	30	16
DTL-1-25	8.5	12	7	75	34	18
DTL-1-35	10.5	14	8.5	85	38	20.5
DTL-1-50	10.5	16	9.8	90	40	23
DTL-1-70	12.5	18	11.5	102	48	26
DTL-1-95	12.5	21	13.5	112	50	28
DTL-1-120	14.5	23	15	120	53	30
DTL-1-150	14.5	25	16.5	126	56	34
DTL-1-185	16.5	27	18.5	133	58	37
DTL-1-240	16.5	30	21	140	60	40
DTL-1-300	21	34	23.5	160	65	50
DTL-1-400	21	38	27	170	70	50
DTL-1-500	21	47	29	225	75	60
DTL-1-630	-	54	35	245	80	80
DTL-1-800	-	60	38	270	90	100



DT



DL



DT DL Copper-aluminium Connecting Terminals

APPLICATION

Connecting terminals are suitable for the conjunction of wires, cables in the distribution equipment and the electrical equipment. DL series of aluminium connecting terminals are pressed with aluminium bar (L3), DT series of copper connecting terminals with copper bar (T2).

SPECIFICATIONS

Type	ϕ	D	d	L	L1	B
DT-10	8.5	9	5.3	62	28	16
DT-16	8.5	10	6.5	68	30	16
DT-25	8.5	11	7	70	33	18
DT-35	10.5	12	8.5	80	36	20.5
DT-50	10.5	14	9.5	85	38	23
DT-70	12.5	16	11.5	95	43	26
DT-95	12.5	18	13.5	104	46	28
DT-120	14.5	20	15	112	49	30
DT-150	14.5	22	16.5	120	51	34
DT-185	16.5	25	18.5	125	55	37
DT-240	16.5	27	21	136	60	40
DT-300	18	31	23	155	66	50
DT-400	21	34	26.5	170	75	50
DT-500	21	38	29	190	75	60
DT-630	21	45	35	220	85	80
DT-800	21	50	38	260	85	100

Type	ϕ	D	d	L	L1	B
DL-10	8.5	9	6	68	28	16
DL-16	8.5	10	6	70	30	16
DL-25	8.5	12	7	75	34	18
DL-35	10.5	14	8.5	85	38	20.5
DL-50	10.5	16	9.5	90	40	23
DL-70	12.5	18	11.5	102	48	26
DL-95	12.5	21	13.5	112	51	28
DL-120	14.5	23	15	120	53	30
DL-150	14.5	25	16.5	126	56	34
DL-185	17	27	18.5	133	58	37
DL-240	17	30	21	140	60	40
DL-300	21	34	24	160	65	50
DL-400	21	38	26	170	70	50
DL-500	21	47	29	190	75	60
DL-630	21	54	35	220	85	80
DL-800	21	60	38	250	100	100

Insulating Fitting



NES (JNF) Four-core collecting star clamp (anchor clamp)



NXL Al-alloy strain clamp



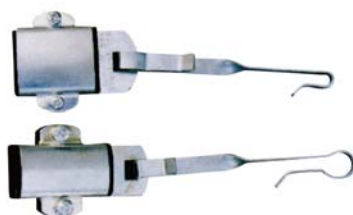
Unparallel-groove clamp and insulating cover



NPL NLL Aluminum alloy strain clamp



JY series connecting pipe



JFF sfracin clamp



JTT JTG JTL series T type clamp and insulating sheath

Strain Clamp



NYG strain clamp (hydraulic compression)



NY strain clamp for steel wire (umpression type)



NLD malleable cast-iron strain clamp

Terminal Connector



JT JTL JL copper Aluminium jointing clamp



Copper-aluminium guy clip



SBGL copper-aluminium threaded clamp



SBT sbg co.-al transformer clamp



ST SL blot type terminal connector

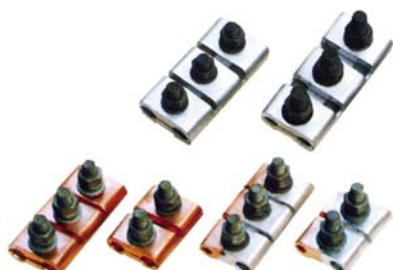


SLG blot type terminal connector



SL terminal connector (0° type)

Connection Fitting



JB JBTL JBT series parallel-groove clamp

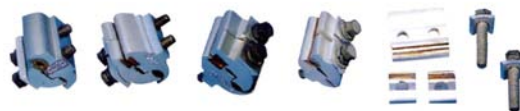


JBB series parallel-groove clamp

Connection Fitting



APG CAPG Al co-al. uncombined clamp



GAPG-C co.-al. unparallel-groove clamp



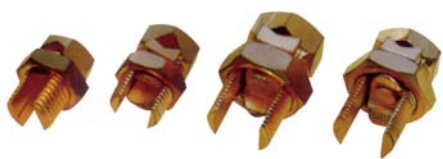
Connection terminals connection clamp



Brass connection clamp



Brass adjusting clamp

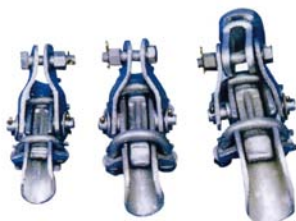


T/J copper bolt connector



CCA Cu shape copper wire clamp

Suspension Clamp



XGU malleable cast-iron suspension clamp

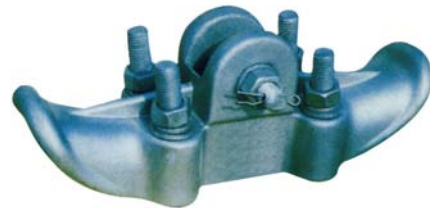


XGU suspension clamps (with socket-clevis)

Suspension Clamp



Suspension clamps (with U-clevis)



XGF-K suspension clamps



XGF-X dimension drawings



XGF Aluminum alloy suspension clamps (envelope)



XGHL suspension clamp



XGT suspension clamps

Link Fitting



Q QP type ball-eyes



U UL type shackles



中国驰名商标



CB

CE



PICC

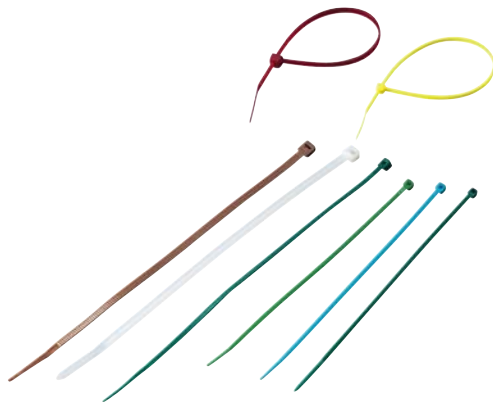
中国新威特电器集团有限公司

SUNFAD ELECTRICAL GROUP CO.,LTD CHINA



Accessories

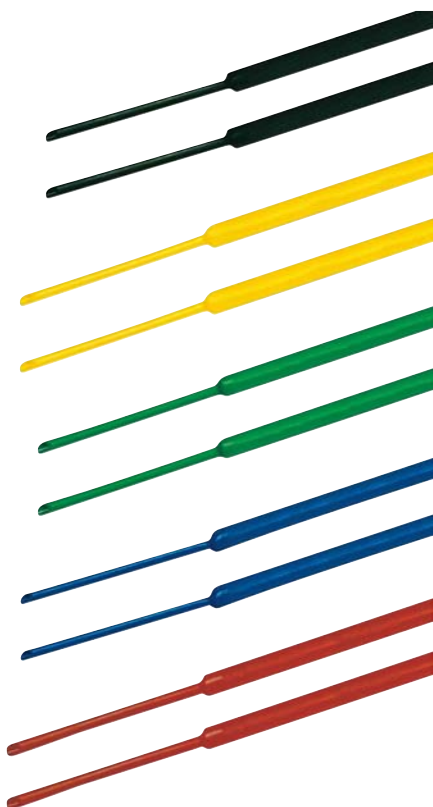
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Cable Tie

SPECIFICATIONS

Type (mm)	Type (mm)
3 x 60	2.5 x 60
3 x 60	2.5 x 80
3 x 100	2.5 x 100
3 x 120	2.5 x 120
3 x 150	2.5 x 150
4 x 150	3.5 x 150
4 x 180	3.5 x 180
4 x 200	3.5 x 200
5 x 180	4.8 x 180
5 x 200	4.8 x 200
5 x 250	4.8 x 250
5 x 300	4.8 x 300
5 x 350	4.8 x 350
5 x 380	4.8 x 380
8 x 150	7.9 x 150
8 x 180	7.9 x 180
8 x 200	7.9 x 200
8 x 250	7.9 x 250
8 x 300	7.9 x 300
8 x 350	7.9 x 350
8 x 400	7.9 x 400
8 x 450	7.9 x 450
8 x 500	7.9 x 500
9 x 550	9 x 550
9 x 650	9 x 650
9 x 760	9 x 760
9 x 920	9 x 920
9 x 1020	9 x 1020
10 x 450	10 x 450
10 x 500	10 x 500
10 x 550	10 x 550
10 x 600	10 x 600
10 x 700	10 x 700
12 x 650	12 x 650



Heat Shrinkable Tubing

FUNCTION

1. Wire coat and insulation.
2. Make the joint of terminal block and wire insulated.
3. Divide the colors.
4. Water-proof.
5. Protection and insulation of insitors and electrical capacitors.

SPECIFICATIONS

Color: Black, white, red, blue, yellow, green, brown, grey, orange and purple.

Type	AS supplied		AS supplied		Packing (m/roll)
	I. D (mm)	Thickness	I. D (mm)	Thickness	
DRS-1	1.0	0.2 ± 0.05	0.5	0.4 ± 0.05	400
DRS-1.5	1.5	0.2 ± 0.05	0.75	0.4 ± 0.05	300
DRS-2	2.0	0.25 ± 0.05	1.0	0.45 ± 0.1	200
DRS-2.5	2.5	0.25 ± 0.05	1.25	0.45 ± 0.1	
DRS-3	3.0	0.25 ± 0.05	1.5	0.45 ± 0.1	100
DRS-3.5	3.5	0.25 ± 0.05	1.75	0.45 ± 0.1	
DRS-4	4.0	0.25 ± 0.05	2.0	0.45 ± 0.1	
DRS-5	5.0	0.35 ± 0.05	2.5	0.55 ± 0.1	
DRS-6	6.0	0.35 ± 0.05	3.0	0.55 ± 0.1	
DRS-7	7.0	0.35 ± 0.05	3.5	0.55 ± 0.1	
DRS-8	8.0	0.35 ± 0.05	4.0	0.55 ± 0.1	
DRS-9	9.0	0.35 ± 0.05	4.5	0.55 ± 0.1	
DRS-10	10.0	0.35 ± 0.05	5.0	0.60 ± 0.1	
DRS-11	11.0	0.35 ± 0.05	5.5	0.60 ± 0.1	
DRS-12	12.0	0.35 ± 0.05	6.0	0.70 ± 0.1	100
DRS-13	13.0	0.35 ± 0.1	6.5	0.4 ± 0.05	
DRS-14	14.0	0.35 ± 0.1	7.0	0.4 ± 0.05	100
DRS-15	15.0	0.35 ± 0.1	7.5	0.4 ± 0.05	
DRS-16	16.0	0.35 ± 0.1	8.0	0.4 ± 0.05	50
DRS-17	17.0	0.35 ± 0.1	8.5	0.4 ± 0.05	
DRS-18	18.0	0.4 ± 0.1	9.0	0.8 ± 0.1	
DRS-20	20.0	0.5 ± 0.1	10.0	0.9 ± 0.1	
DRS-22	22.0	0.5 ± 0.1	11.0	0.9 ± 0.1	
DRS-25	25.0	0.5 ± 0.1	12.5	0.9 ± 0.1	25
DRS-28	28.0	0.5 ± 0.1	14.0	0.9 ± 0.1	
DRS-30	30.0	0.5 ± 0.1	15.0	1.00 ± 0.2	
DRS-35	35.0	0.5 ± 0.1	17.5	1.00 ± 0.2	
DRS-40	40.0	0.5 ± 0.1	20.0	1.00 ± 0.2	
DRS-50	50.0	0.5 ± 0.1	25.0	1.00 ± 0.2	
DRS-60	60.0	0.6 ± 0.1	30.0	1.20 ± 0.2	
DRS-70	70.0	0.6 ± 0.1	35.0	1.20 ± 0.2	
DRS-80	80.0	0.6 ± 0.1	40.0	1.20 ± 0.2	
DRS-90	90.0	0.6 ± 0.1	45.0	1.30 ± 0.2	
DRS-100	100.0	0.7 ± 0.1	50.0	1.30 ± 0.2	25
DRS-120	120.0	0.7 ± 0.1	60.0	1.30 ± 0.2	
DRS-150	150.0	0.8 ± 0.1	75.0	1.60 ± 0.2	

Cable Clip

SPECIFICATIONS

Names	Type (mm)
Cable clip (Flat)	4
	5
	6
	7
	8
	9
	10
	12
	14
Cable clips (Round)	4
	5
	6
	7
	8
	9
	10
	12
	14
	16
	18
	20
	22
	25
	30
	35

SET PIECE

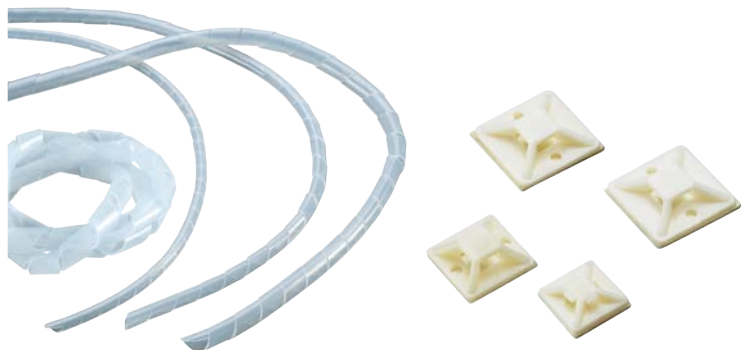
Type		Type	
20 x 20	25 x 25	30 x 30	40 x 40

Cable Marker



EC-1 1.5-4mm² 1000PCS/roll
 EC-2 6-10mm² 500PCS/roll
 EC-3 16-25mm² 250PCS/roll

Spiral Wrapping Band

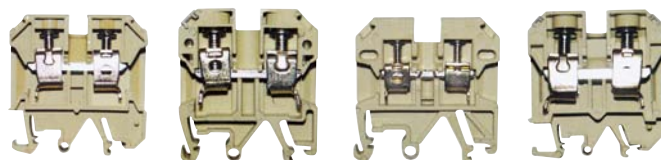


Size: 6, 8, 10, 12, 15, 19, 24 (10m/roll)

Terminal Connector

APPLICATION

JXB terminal connector is installed on the standard din rail to connect the cable & other conductors, 1.5mm², 2.5mm², 4mm², 6mm², 10mm², 16mm² & 35mm² are available.



JXB (New)



JXB-2.5/35

JXB-4/35

JXB-10/35

JXB-16/35

JXB-35/35

Earth Terminal



JB-4

JB-6

JB-10

JB-16

UK Series General Model Terminal



UK 3N

UK 5N

UK 6N

UK 10N

UK 16N



USLKG 3

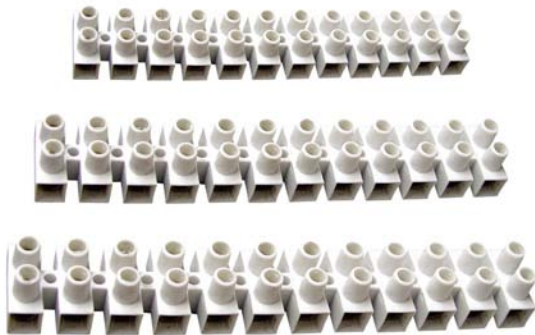
USLKG 5

USLKG 10

USLKG 16

USLKG 35

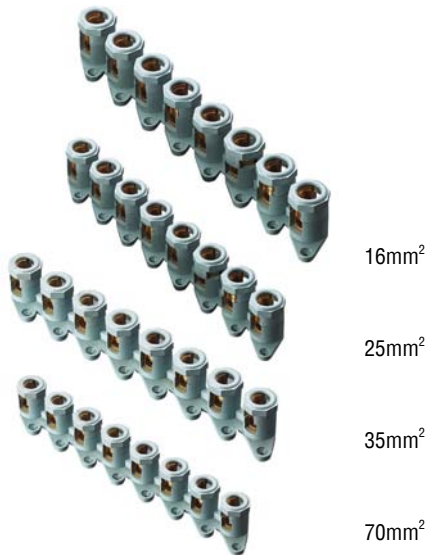
Terminal Connector



H series

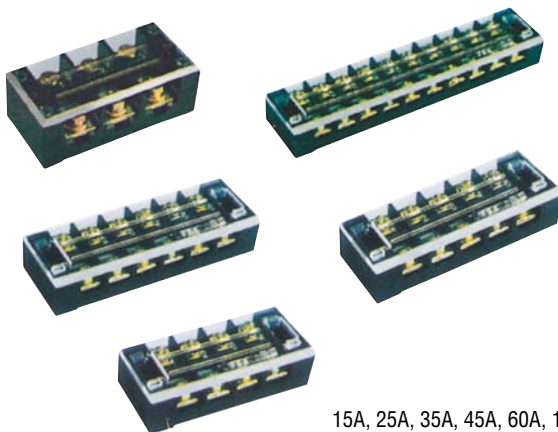


U (W) series PE. PP. PA material



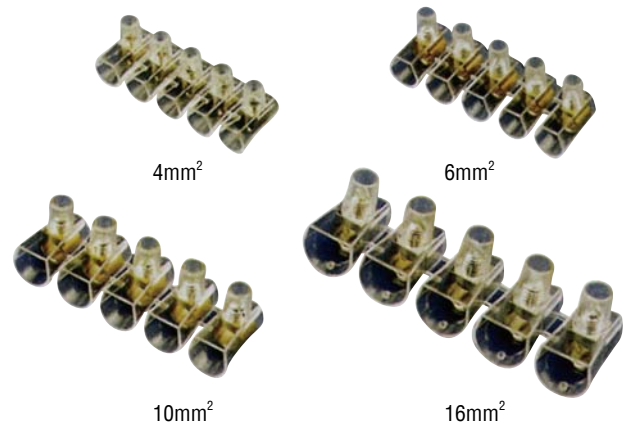
8 x 1 way terminal

Spec. (mm ²)	Dimensions(mm)						
	L	B	H ₁	φ	E ₁	E ₂	H ₂
4mm ² 3A	93	17	14	2.8	8	6	8
6mm ² 6A	115	19	16.5	3.2	10	8	9
10mm ² 10A	130	21	17	4.3	11	8.5	10
12mm ² 16A	140	23	19	4.4	12	10	11
16mm ² 30A	165	26	20	5.8	14	10.5	12
25mm ² 60A	198	31	26	7	16	12.5	15
40mm ² 100A	255	45	35	9	22.5	20	22.5



15A, 25A, 35A, 45A, 60A, 100A
3 ways, 4 ways, 6 ways, 12 ways

TB terminal block



5 x 1 way terminal

LT Series Strip Blocks

APPLICATION

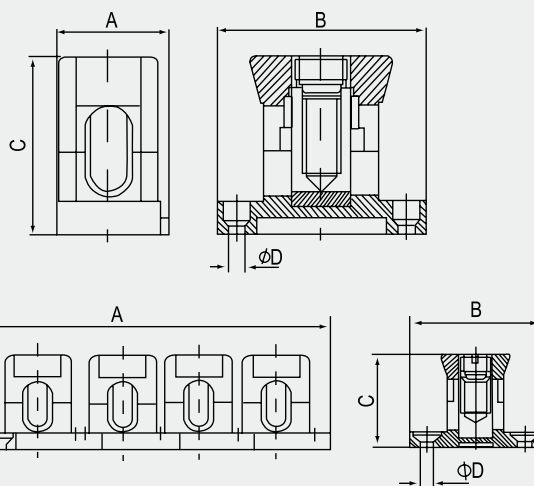
Built and tested according to UNE-EN60998 standard. Insulating part and crews: polyamide 6 natural color. Flammability to UL 94 V2. Continuous working temperature: 115°, short time working temperature: 160°, conductor block and screws; nickel-plated brass.

SPECIFICATIONS

Type	Characteristics		Dimensiones/dimensions				Sistema ALLEN ALLEN system
			A	B	C	φ D	
LT-6	Conductor size up to	2 x 6	188	29	17	3, 2	
	Voltage rating	500V					
LT-10	Conductor size up to	2 x 10	224	31	23	3, 2	
	Voltage rating	500V					
LT-16	Conductor size up to	2 x 16	260	32	26	3, 2	
	Voltage rating	500V					
LT-25/35	Conductor size up to	2 x 35	308	36	34	3, 2	
	Voltage rating	500V					
LT-50	Conductor size up to	2 x 50	32	63	48	5	5
	Voltage rating	500V					
LT-70	Conductor size up to	2 x 70	34	63	53	5	6
	Voltage rating	500V					
LT-95	Conductor size up to	2 x 95	39	63	56	5	8
	Voltage rating	500V					
LT-120	Conductor size up to	2 x 120	41	70	61	5	8
	Voltage rating	500V					

Standard type: Maximum ambient temperature, T100 according to EN-UNE 60998, natural color.

DIMENSIONS



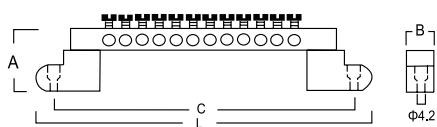
Bus-Shoe Terminal



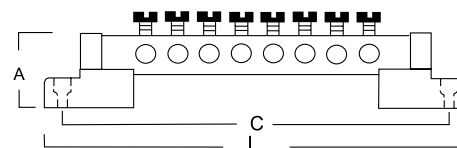
Bus-shoe 1 (15 holes, 7 holes, 12 holes)



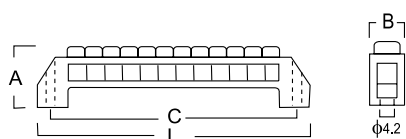
Bus-shoe 2 (different ways)



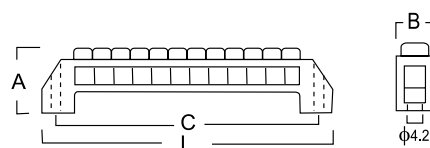
S. P 028



S. P 029



S. P 030



S. P 031

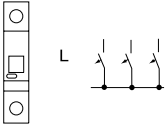
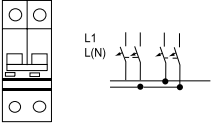
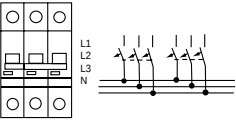
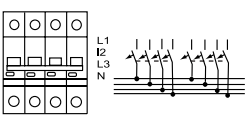
Busbar Connection

APPLICATION

- The busbars ease wiring of electrical item, enlarge connection area, decrease temperature rise and thus increase the electrical reliability of electrical items.
- Material is of fire-resistant PVC and red copper
- Current rating is up to 63A
- Rated voltage is up to 415V
- Applicable ambient temperature -25℃~+50℃
- Standard length 1m, other length to be made upon request



SPECIFICATIONS

Busbar connection	Current ratings (A)	Poles No.	Cross section (mm)	Length (mm)	Category No.
	63/1	56 x 1	20	100	BB101
	100/1	56 x 1	20	100	BB102
	63/2	27 x 2	20	100	BB201
	100/2	27 x 2	20	100	BB202
	63/3	18 x 3	20	100	BB301
	100/3	18 x 3	20	100	BB302
	63/4	14 x 4	20	100	BB401
	100/4	14 x 4	20	100	BB402

DIN Rails

APPLICATION

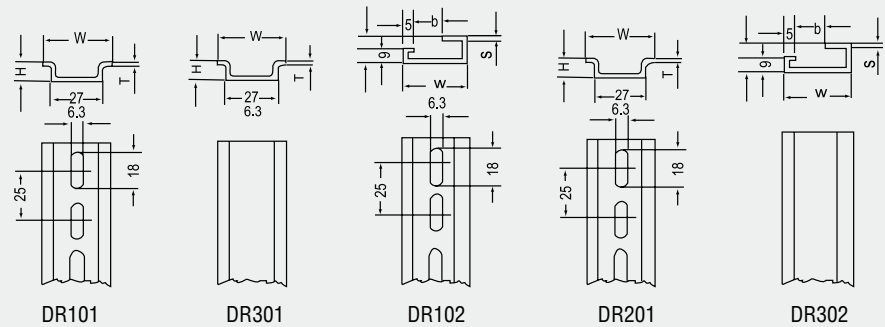
Suitable for mounting various modular units.

TECHNICAL DATA

Material	Steel, zinc electroplated with yellow achromate passivation. aluminium alloy optional.
Color	Yellow or silver gray
Length	2m, 1m and other lengths upon request
Standards	DIN 46277, CENELEC EN 50.022 EN 50.023 EN50.035

Type	Dimensions (mm)			Length(meters)
	W	H	T	
DR101	35	7.5	1	2/1
DR102	35	7.5	1	2/1
DR301	32	15	1.5	2/1
DR201	35	15	1.5	2/1
DR302	32	15	1.5	2/1

DIMENSIONS



Flexible Tube

APPLICATION

Material: PA

Service temperature:

-40°C to 100°C (PA)

-40°C to 80°C (PE)

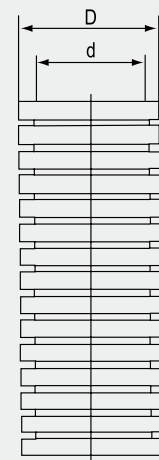
Protection degree: IP65

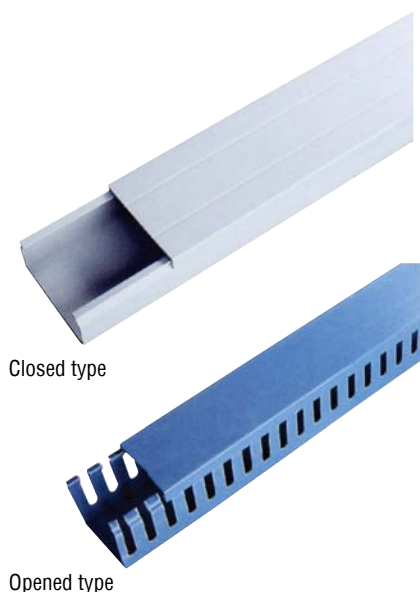
Color: black

Other color please contact us

SPECIFICATIONS

Size (AD)	Material	d (mm)	D (mm)
10	PE	7	10
13	PE	10	13
15.8	PE	13	15.8
18.5	PE	14	18.5
21.2	PE	17	21.2
28.5	PE	22.5	28.5
34.5	PE	28.5	34.5
42.5	PE	35	42.5
54.5	PE	43	54.5





PVC Trunking

SPECIFICATIONS

Size of PVC trunk open type & cosed type						White installation trunk		
20 x 15	30 x 350	40 x 30	50 x 40	60 x 35	80 x 50	10 x 15	20 x 30	30 x 100
20 x 20	30 x 40	40 x 40	50 x 45	60 x 45	80 x 55	10 x 20	20 x 35	50 x 80
20 x 25	30 x 50	40 x 50	50 x 50	60 x 50	80 x 60	10 x 25	20 x 50	50 x 100
25 x 25	35 x 25	45 x 45	50 x 55	60 x 55	80 x 80	15 x 15	25 x 40	80 x 100
30 x 15	35 x 30	50 x 20	50 x 60	60 x 60	80 x 100	15 x 20	30 x 50	100 x 100
30 x 20	35 x 35	50 x 25	50 x 80	60 x 100	100 x 80	15 x 25	30 x 60	
30 x 25	35 x 40	50 x 30	50 x 100	80 x 35	100 x 100	15 x 35	30 x 80	
30 x 30	40 x 50	50 x 35	60 x 25	80 x 45				

Note: above all spec. for: height x width; 2m/pcs or 1m/pcs



RTD Series Round Type Wiring Duct

APPLICATION

Material: very impactful, rigid, self-extinguishing P. V. C

Service temperature: 85.

Backed with high quality double sided tape for permanent stick.

Good for floor with to facilitate trolley pass and to avoid trip.

SPECIFICATIONS

Item. no	W	H	L	Color
RTD-1	24	8	1m	White grey green
RTD-2	31.7	8.5		
RTD-3	39.2	11.0		
RTD-4	52	11.3		
RTD-5	63	12.5		
RTD-6	70	13.2		



PVC Tape

SPECIFICATIONS

0.13mm x 19mm x 5YDS

0.13mm x 19mm x 10YDS

0.13mm x 19mm x 20YDS

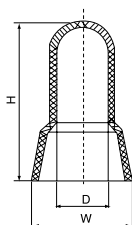
0.13mm x 19mm x 10m

0.13mm x 19mm x 20m

0.15mm x 19mm x 10YDS

0.15mm x 19mm x 20YDS

0.13mm x 25mm x 10YDS



Wire Connectors

SAFETY-TYPE WIRE JOINTS

APPLICATION

Shell material: Nylon 66, 94V-2, certificated agree, by UL.

Usage: peel the coat of wire, then insert to tube, use pincers to fix them.

Feature: Nylon shell, long copper tube, easy to conduct electricity and hold wire tightly.

Item No.	d (mm)	D (mm)	W (mm)	Wrapping range (mm)	Packing
SWB-06	4	6	7.0	4-50	10m/roll
SWB-08	6	8	10.8	6-60	
SWB-10	7.5	10	11.4	7.5-60	
SWB-12	9	12	13.9	9-65	
SWB-15	12	15	15.0	12-75	
SWB-19	15	19	18.2	15-100	
SWB-24	20	24	19.6	20-130	

Item No.	A(mm)	W (mm)		D (mm)	Suitable wires		Packing
		B	C		mm ²	AWG	
S-φ 3	17.8	7.2	3.6	2.5	1.25	22-16	100PCS & 1000PCS
S-φ 4	21.0	8.2	4.0	2.9	2	16-14	
S-φ 5	22.5	9.0	4.8	3.9	5.5	12-10	
S-φ 6	25.0	10.0	5.6	4.5	8	8	
S-φ 7	24.2	11.0	6.5	5.4	10	8-6	100PCS & 500PCS
S-φ 8	25.6	11.8	7.5	6.0	13	6	
S-φ 10	29.5	13.5	9.3	7.5	16	4	100PCS

Screw on Wire Connectors

APPLICATION

Material: UL nylon 66, with spring inside.

Usage: peel wire coat, insert the wire in, then tighten.

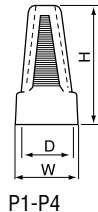
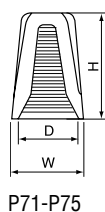
Item No.	H (mm)	W (mm)	D (mm)	Suitable wire	Color
S-P71	15	8.7	6.5	Min # 20 x 1+ #22 x 1 Max # 16 x 2	Grey
S-P72	18	10.0	7.5	Min # 20x3 Max # 16 x 3	Blue
S-P73	23	11.2	9.5	Min # 20 x 3 Max # 16 x 3+ # 18 x 1	Orange
S-P74	24.2	13.6	10.8	Min # 14 x + # 18 x 1 Max #14 x 4+ # 18 x 1	Yellow
S-P75	27.8	16.1	12.7	Min # 14 x 2 Max # 10 x 2+ # 12 x 2	Red

APPLICATION

Material: UL nylon 66, with spring inside.

Usage: peel wire coat, insert the wire in, then tighten.

Item No.	H (mm)	W (mm)	D (mm)	Suitable wire	Packing
S-P1	22.0	19.0	9.8	Min # 18 x 2 Max # 12 x 3	100PCS
S-P2	29.0	22.0	12.5	Min # 14 x 2 Max # 10 x 4	
S-P3	33.2	27.0	14.0	Min # 12 x 3 Max # 10 x 4	
S-P4	39.6	30.5	17.5	Min # 12 x3 Max # 6 x 1+ # 8 x 2	



R Series Cable Clamps

APPLICATION

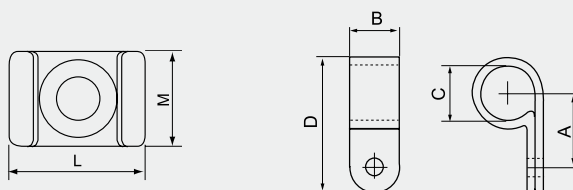
Material: Nylon 66 94V-2 agreed by UL.

Usage: put cable in, fix by screw.

SPECIFICATION

Item No.	A(mm)	B(mm)	C		D(mm)	Packing
			mm	inch		
S-1/8R	9.5	9.6	3.2	1/8"	19.8	100PCS
S-3/16R	9.6	9.6	4.8	3/16"	19.8	
S-1/4R	12.0	10.0	6.35	1/4"	22.0	
S-5/16R	12.0	10.0	7.9	5/16"	22.0	
S-3/8R	12.5	12.0	9.5	3/8"	24.0	
S-1/2R	15.2	12.0	12.7	1/2"	31.0	
S-2/8R	18.2	12.0	15.8	5/8"	34.3	
S-3/4R	18.2	12.0	19.4	3/4"	35.0	
S-1R	22.0	12.0	25.4	1"	43.0	
S-17/16R	24.0	12.0	27.5	17/16"	50.0	
S-5/4R	26.2	12.0	31.8	11/4"	46.2	
S-3/2R	30.0	12.0	36.7	11/2"	50.0	

DIMENSIONS



Expand Nails

APPLICATION

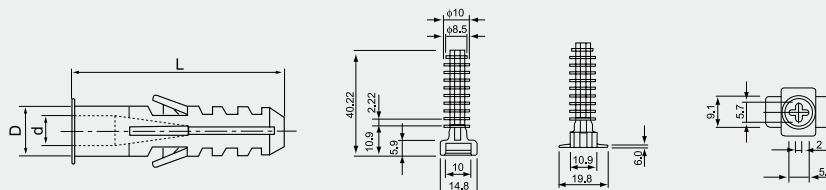
Material: made of PE; Sponge double side sticker.

Color: white, grey.

SPECIFICATION

Item No.	L (mm)	D (mm)	d (mm)	Packing
EN-06	29.8	6.0	4.9	1000PCS & 100PCS
EN-08	38.6	7.9	5.3	
EN-10	42.7	9.9	5.8	500PCS & 100PCS
EN-12	47.9	11.6	6.3	

DIMENSIONS





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