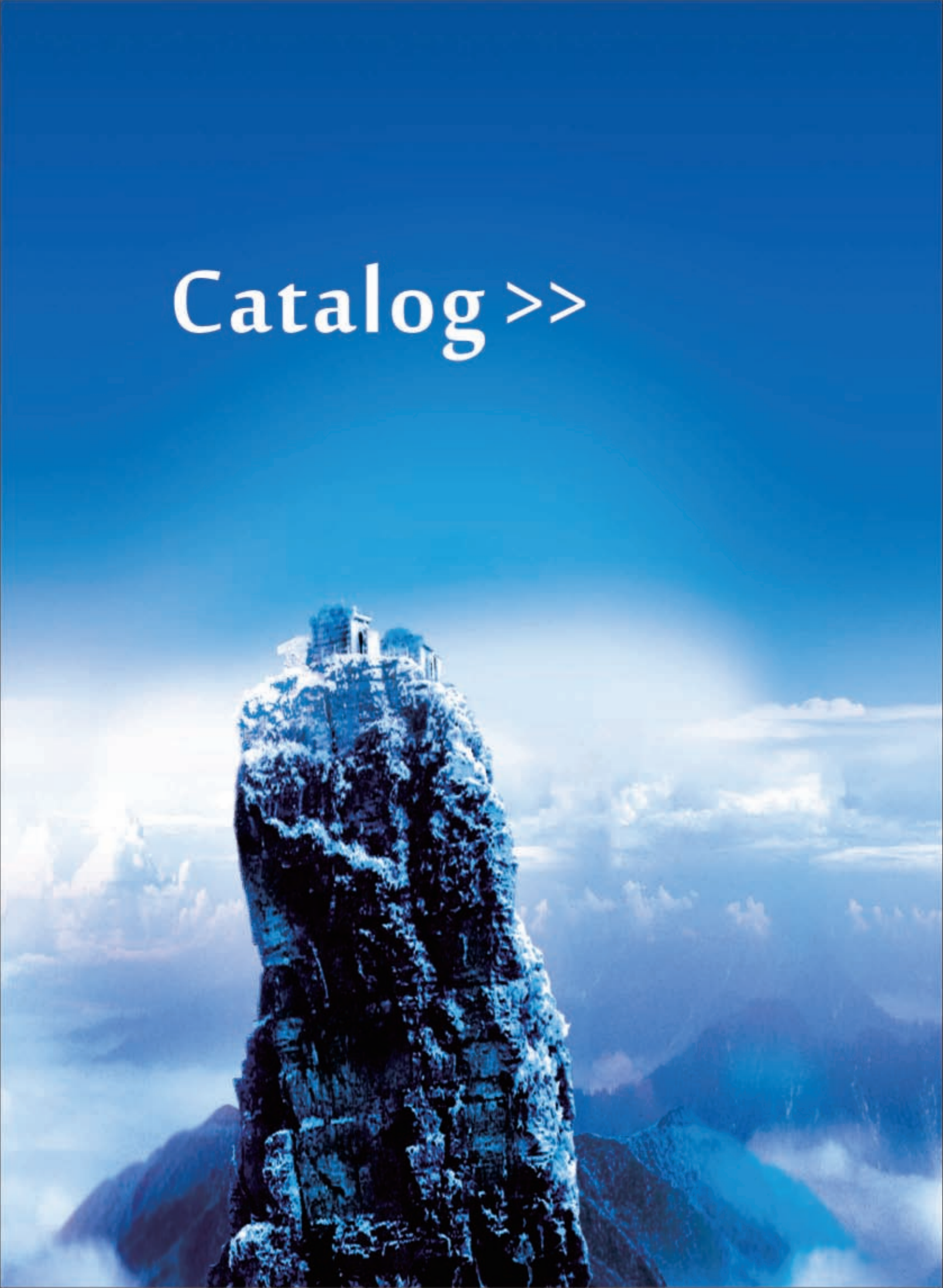
JUNXIONG ELECTRICAL

Catalogue

JUNXIONG ELECTRICAL LIMITED

Junxiong Electrical of Zhejiang ,CHN is one of the world's leading specialists in the design, manufacture and installation of circuit breakers ,transformers, variacs and stabilizers. Established in 2003 and presently employing almost 100 personnel in our new, purpose-built office/ showroom / warehouse / factory complex, Junxele's product range is now regarded as the largest and most extensive of its kind in theele ctrical industry and continues to grow via its distribution network of representatives in over 40 countries around the globe.

Catalog >>



DZ47–63 Miniature Circuit Breaker

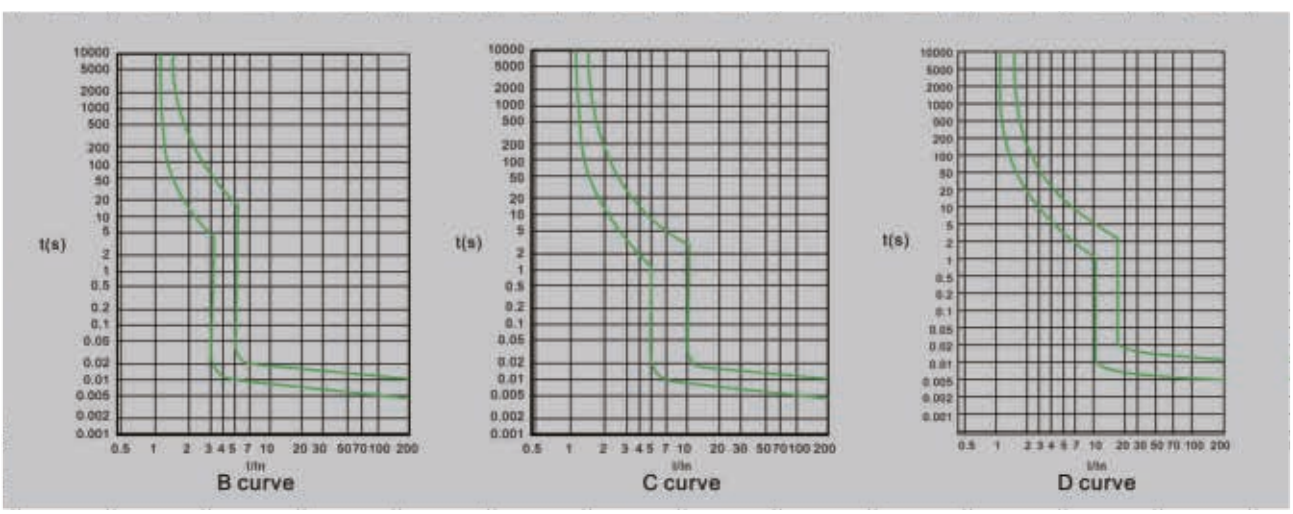
1. General

1. Application: For protecting cables and equipments against overload and short circuit.
2. General rules for choosing MCB.
   a. Technical data of the network at the point considered:
      The earthing systems , short-circuit current at the circuit breaker installation point, which must always be less than the breaking capacity of this device, network normal voltage.
   b. There are 3 curve characteristics for magnetic operation:
      B curve (3-5 In) protection and control of the circuits against length cables in TN and IT systems.
      C curve (5-10 In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
      D curve (10-14 In) protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

2. Specifications

Curves

DZ47-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



DZ47–63 Miniature Circuit Breaker

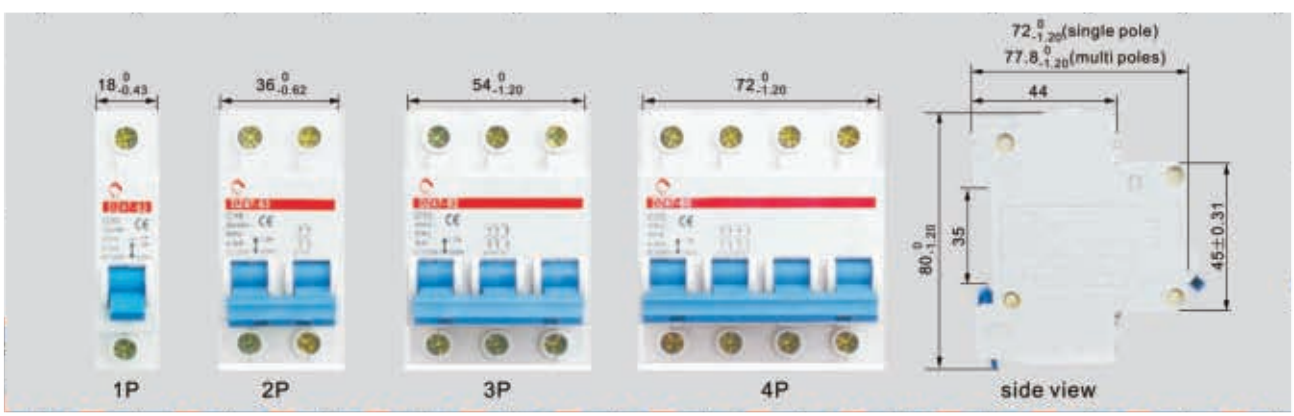
Standard			IEC/EN 60898-1
Electrical features	Rated current In	A	1,2,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000，4500
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B，C，D
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average ≤35℃)	℃	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable / Pin-type busbar
	Terminal size top / bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs.	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

3. Temperature derating

Please refer to table below for temperature compensation correction

Rated current In(A)	Temperature compensation coefficient under various operational temperature								
	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	55℃	60℃
1~6	1.20	1.14	1.09	1.05	1.00	0.96	0.80	0.75	0.70
10~32	1.18	1.12	1.08	1.04	1.00	0.96	0.92	0.88	0.84
40~60	1.16	1.12	1.07	1.03	1.00	0.97	0.87	0.83	0.80

4. Overall and mounting dimensions(mm)



YCB1–100 Miniature Circuit Breaker

1. General

1.1 Application:

For protecting cables and equipments against overload and short circuit.

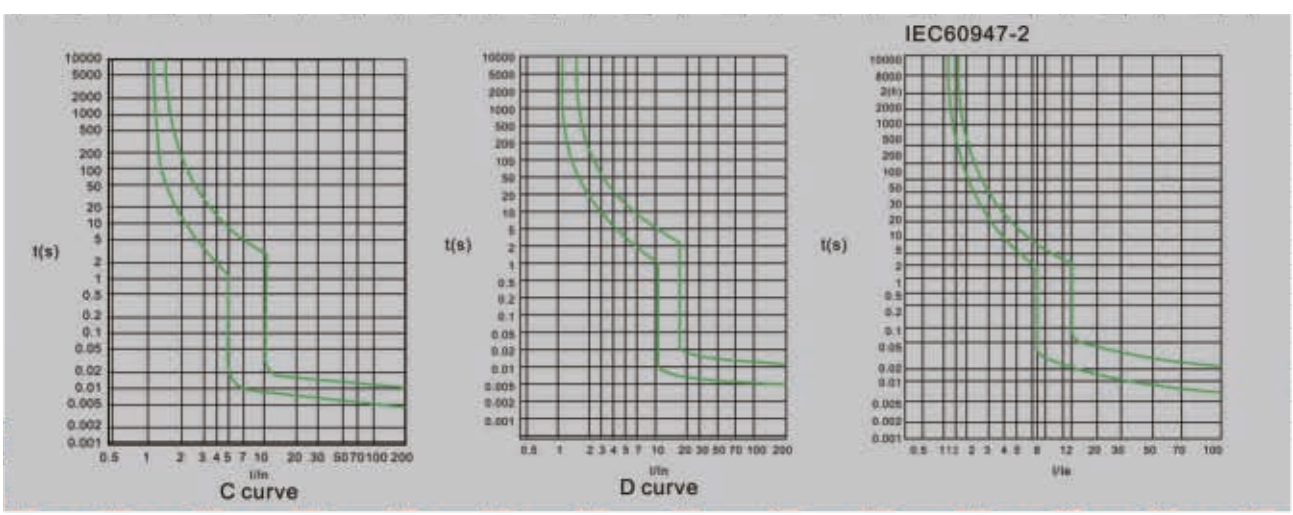
1.2 General rules for choosing MCB.

Technical data of the network at the point considered:

The earthing systems, short-circuit current at the circuit breaker installation point, which must always be less than the breaking capacity of this device,network normal voltage.

2. Specifications

Curves



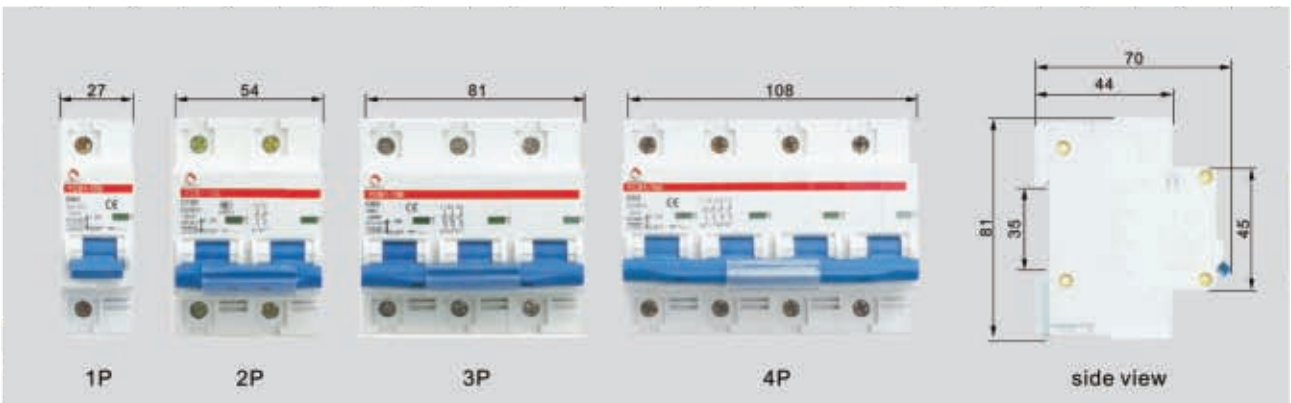
YCB1–100 Miniature Circuit Breaker

Standard			IEC/EN 60947-2, IEC60898-1
Electrical features	Rated current In	A	63,80,100
	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000,10000
	Rated impulse withstand voltage(1 2 / 50)Uimp	V	6000
	Dielectric test voltage at ind. Freq. for 1min	kV	2.5
	Pollution degree		3
	Thermo-magnetic release characteristic		8-12In,C,D
Mechanical features	Electrical life	t	1500
	Mechanical life	t	8000
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average≤35℃)	℃	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	℃	-25~+70
	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/bottom for cable	mm^2	35
		AWG	18-1/0
	Terminal size top/bottom for busbar	mm^2	35
		AWG	18-1/0
	Tightening torque	N*m	3.5
		In-lbs.	31
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top
Combination with accessories	Auxiliary contact		Yes

3. Temperature derating

Rated current In(A)	Temperature compensation coefficient under various operational temperature								
	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	55℃	60℃
63	1.28	1.21	1.14	1.07	1.00	0.94	0.87	0.85	0.82
80	1.22	1.16	1.11	1.05	1.00	0.95	0.91	0.88	0.86
100	1.22	1.16	1.11	1.05	1.00	0.95	0.91	0.88	0.86

4. Overall and mounting dimensions(mm)



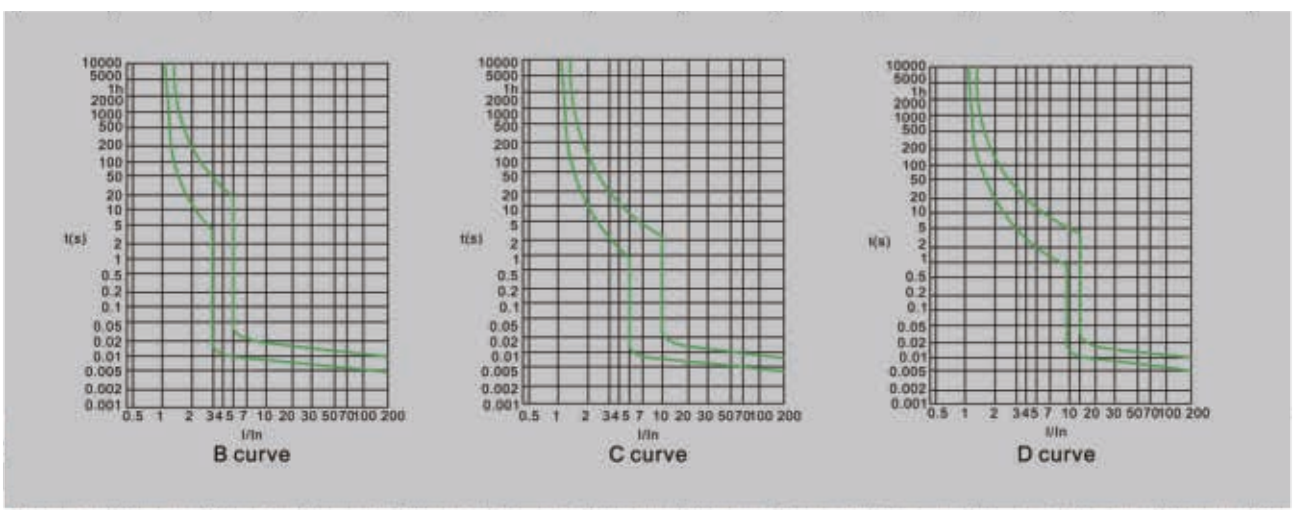
YCB2–63 Miniature Circuit Breaker

1. General

1. Application:
   For protecting cables and equipments against overload and short circuit.
2. General rules for choosing MCB.
   a. Technical data of the network at the point considered:
      The earthing systems, short-circuit current at the circuit breaker installation point. which must always be less than the breaking capacity of this device, network normal voltage.
   b. There are 3 curve characteristics for magnetic operation:
      B curve(3-5 In)protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.
      C curve(5-10 In)protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
      D curve(10-14 In)protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers, breakdown lamps).

2. Specifications

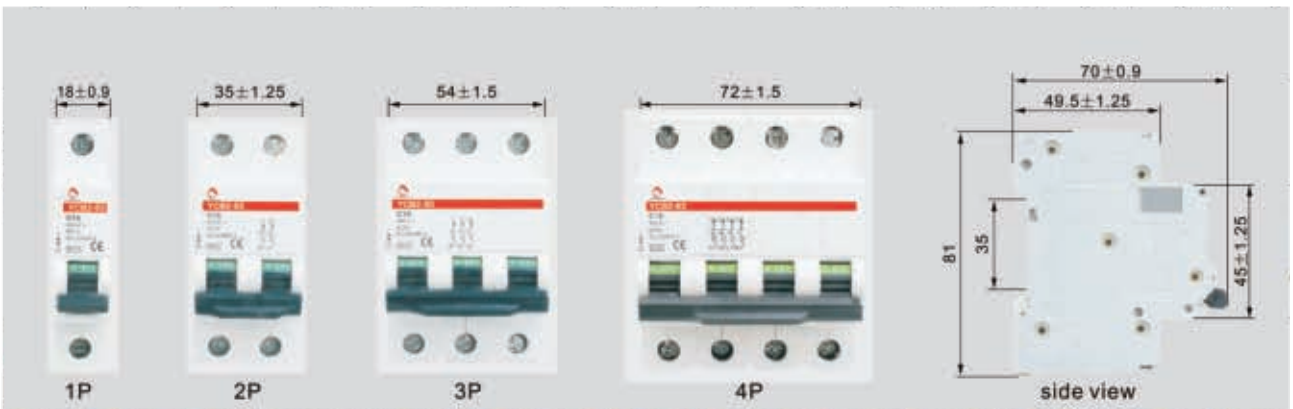
Curves



YCB2–63 Miniature Circuit Breaker

Standard			IEC/EN 60898-1
Electrical features	Rated current In	A	1,2,3,4,6,10,13,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage Ue	V	240/415
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	4500/6000
	Energy limiting class		3
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical features	Electrical life	t	8000
	Mechanical life	t	20000
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average≤35℃)	℃	-5~+40
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable/U-type busbar Pin type busbar
	Terminal size top/bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm^2	25
		AWG	18.3
	Tightening torque	N*m	2.0
		In-lbs.	22
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom
Combination with accessories	Auxiliary contact		Yes
	Shunt release		Yes
	Under voltage release		Yes
	Alarm contact		Yes

3. Overall and mounting dimensions(mm)



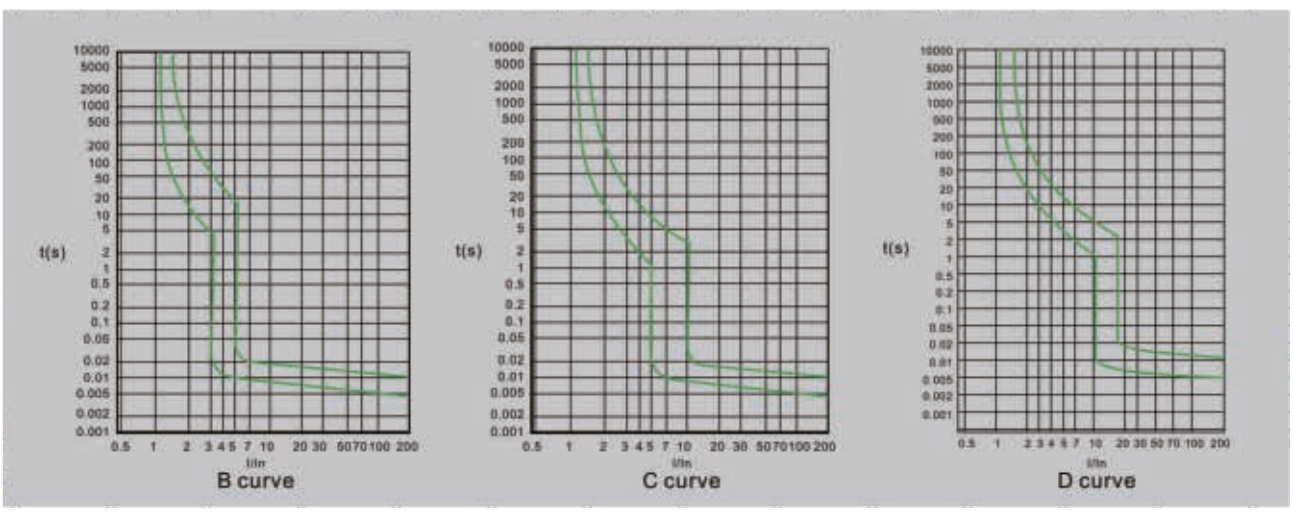
YCL7,YCL7N Miniature Circuit Breaker

1. General

1. Application: For protecting cables and equipments against overload and short circuit.
2. General rules for choosing MCB.
   a. Technical data of the network at the point considered:
      The earthing systems , short-circuit current at the circuit breaker installation point, which must always be less than the breaking capacity of this device, network normal voltage.
   b. There are 3 curve characteristics for magnetic operation:
      B curve (3-5 In) protection and control of the circuits against length cables in TN and IT systems.
      C curve (5-10 In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
      D curve (10-14 In) protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

2. Specifications

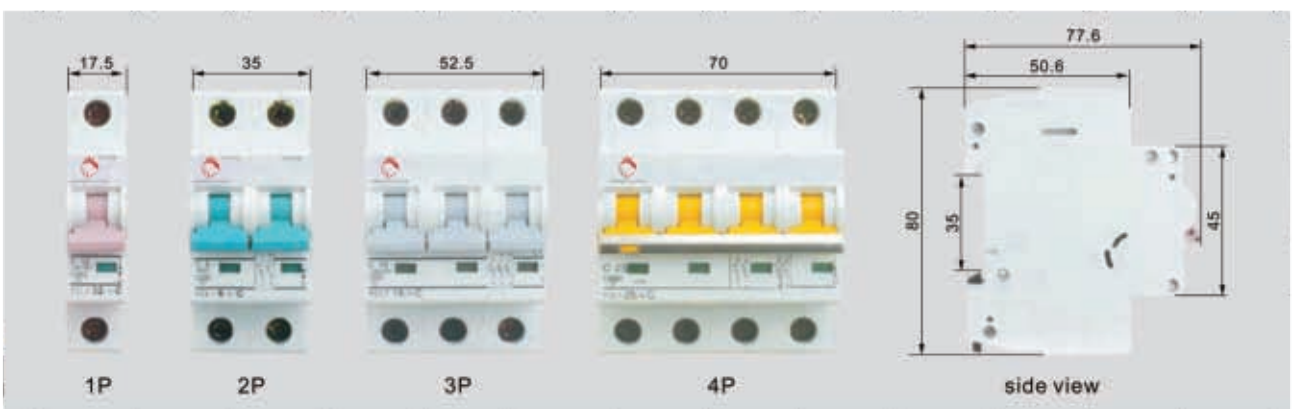
Curves



YCL7,YCL7N Miniature Circuit Breaker

Standard			IEC/EN 60898-1
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	4500,6000,10000
	Rated impulse withstand voltage(1.2/50) Uimp	V	6000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical features	Electrical life	t	8000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average ≤35℃)	℃	-5~+40
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable / Pin-type busbar
	Terminal size top / bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs.	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

3. Overall and mounting dimensions(mm)



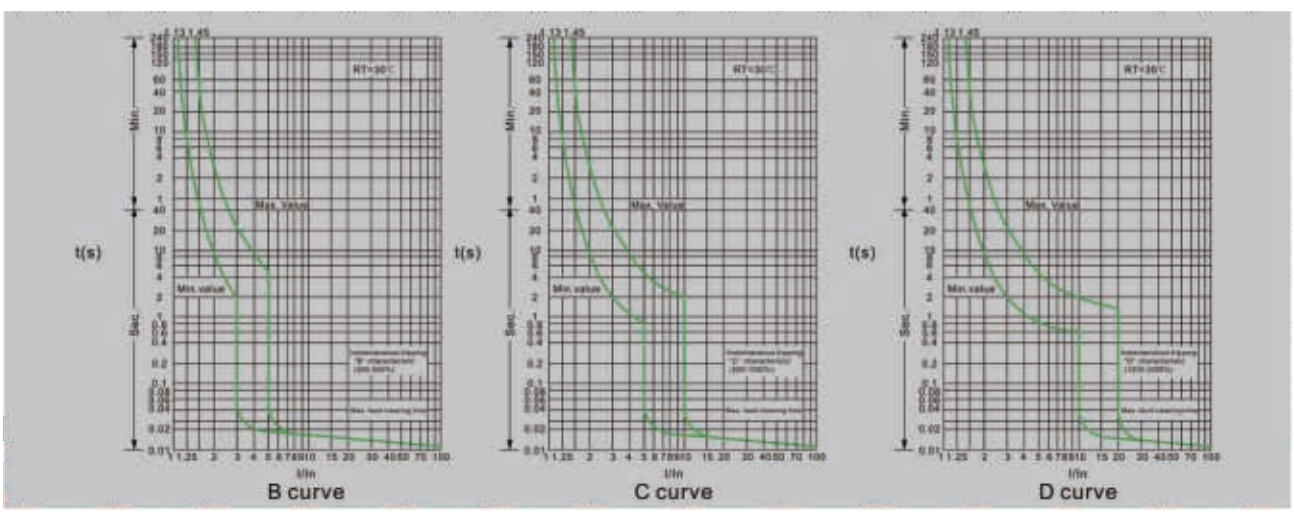
YCBKN Miniature Circuit Breaker

1. General

1. Application: For protecting cables and equipments against overload and short circuit.
2. General rules for choosing MCB.
   a. Technical data of the network at the point considered:
      The earthing systems, short-circuit current at the circuit breaker installation point, which must always be less than the breaking capacity of this device, network normal voltage.
   b. There are 3 curve characteristics for magnetic operation:
      B curve (3-5 In) protection and control of the circuits against length cables in TN and IT systems.
      C curve (5-10 In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
      D curve (10-20 In) protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

2. Specifications

Curves



YCBKN Miniature Circuit Breaker

Standard			IEC/EN 60898-1
Electrical features	Rated current In	A	1,2,3,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000，4500
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B，C，D
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average≤35℃)	℃	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable / Pin-type busbar
	Terminal size top / bottom for cable	mm^2	25
		AWG	18-3
	Tetminal size top/bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs.	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

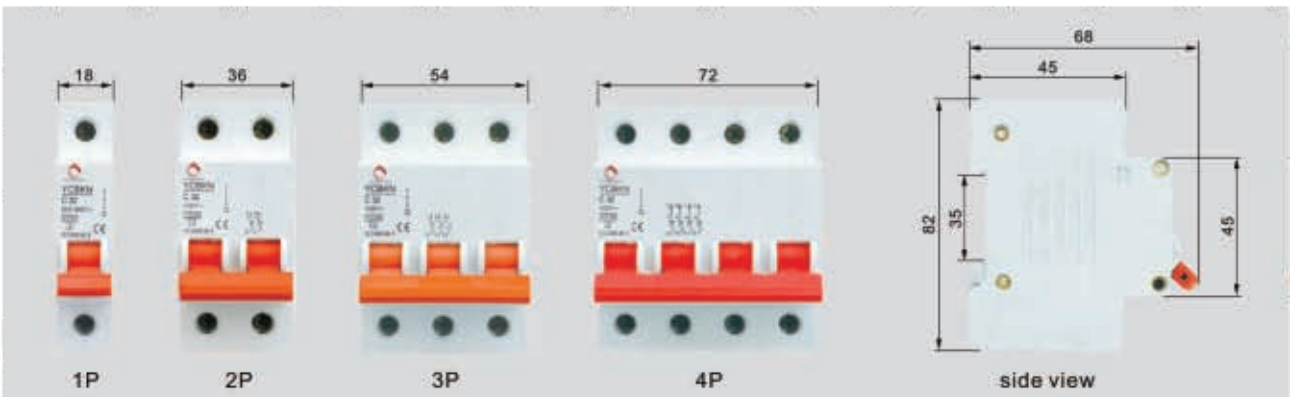
3. Temperature derating

In(A)	20℃	25℃	30℃	35℃	40℃	45℃	50℃	55℃	60℃
1	1.05	1.02	1.0	0.98	0.95	0.93	0.9	0.88	0.85
2	2.08	2.04	2.0	1.98	1.92	1.88	1.84	1.8	1.74
3	3.18	3.09	3.0	2.91	2.82	2.7	2.61	2.49	2.37
4	4.24	4.12	4.0	3.88	3.76	3.64	3.52	3.36	3.24
6	6.24	6.12	6.0	5.88	5.76	5.64	5.52	5.4	5.3
10	10.6	10.3	10.0	9.7	9.3	9.0	8.6	8.2	7.8
16	16.8	16.5	16.0	15.5	15.2	14.7	14.2	13.8	13.3

In(A)	20℃	25℃	30℃	35℃	40℃	45℃	50℃	55℃	60℃
20	21.0	20.6	20.0	19.4	19.0	18.4	17.8	17.4	16.8
25	26.2	25.7	25.0	24.2	23.7	23.0	22.2	21.5	20.7
32	33.5	32.9	32.0	31.4	30.4	29.8	28.4	28.2	27.5
40	42.0	41.2	40.0	38.8	38.0	36.8	35.6	34.4	33.2
50	52.5	51.5	50.0	48.5	47.4	45.5	44.0	42.5	40.5
63	66.2	64.9	63.0	61.0	58.0	56.7	54.2	51.7	49.2

I1:113% In, I2:145% In according to IEC60898-1

4. Overall and mounting dimensions(mm)

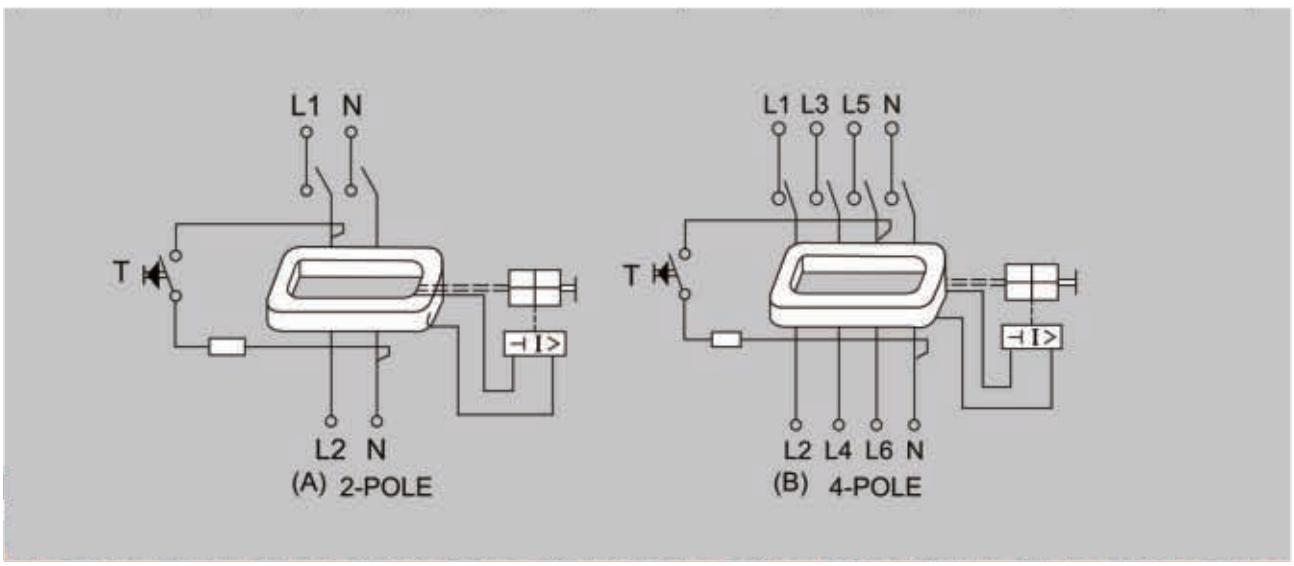


YCL360 Residual Current Circuit Breaker

1. General

The item is in comply with standard of IEC61008-1, applying to the circuit of AC 50/60Hz, 230V single phase, 400V three phases or below it for industrial and mining enterprise, trade building, commerce and family. It is mainly used for preventing electric fire and personal casual accident caused by personal electric shock or leakage of electrified wire net, this 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 lightning. The mutual inductor of the item is used to test vector differential value of passing current, and produces a relevant output power and add it to the tripper in secondary winding, if the current of vector 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.

2. Working principle

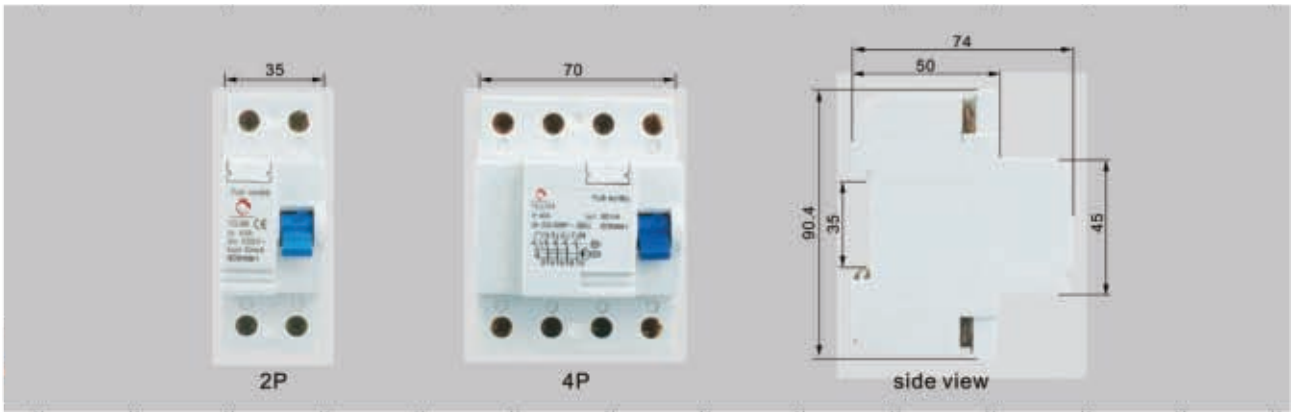


YCL360 Residual Current Circuit Breaker

3. Specifications

Standard			IEC61008-1
Electrical features	Type(wave form of the earth leakage sensed)		A,AC, S
	Rated current In	A	16,25,32,40,63,80,100
	Poles	P	2,4
	Rated voltage Ue	V	230/400
	Rated sensitivity I△n	A	0.01,0.03,0.1,0.3
	Insulation voltage Ui	V	500
	Rated residual making and breaking capacity I△m	A	630
	Short-circuit current I△c	A	4500,6000
	SCPD fuse	A	6000
	Rated frequency	Hz	50/60
	Pollution degree		2
Mechanical features	Electrical life	t	6000
	Mechanical life	t	10000
	Protection degree		IP20
	Ambient temperature (with daily average≤35℃)	℃	-25~+40
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Terminal with clip
	Terminal size top/bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2.5
		In-lbs.	22
	Mounting		On DIN rail EN 6071 5(35mm)by means of fast clip device
	Connection		From top and bottom

4. Overall and mounting dimensions(mm)



ID Residual Current Circuit Breaker

1. General

1. Application :

For protection against risk of fire due to live to earth fault where fault current is insufficient to cause over-current protection device to operate .

For protection against risk of shock from indirect contact with equipment suffering a live to earth fault.

For protection against shock in potentially hazardous environment .

As supplementary protection against shock from directly touching live parts .

Note : an RCCB must not be used as the sole means of protection against touching live parts .

2. General rules for choosing RCCB :

a. Rated residual operating current 10mA-to give a high degree of protection against electric shock in a hazardous environment situation where supplementary protection against shock from accidental direct contact is required. 30mA-to give a high degree of protection against electric shock in a situation where supplementary protection against shock from accidental direct contact is required when it must be able to trip within 40 milliseconds when a fault current of 150mA is detected. 100mA-to give a degree of protection against electric shock due to indirect contact situation 300mA-to gives overall protection against risk of fire from electrical faults in wiring etc.only where sufficient current(typically less than 500mA) may cause incandescence of metal parts in suitable circumstances and in consideration that installed over current devices would require far in excess of 300mA to operate

b . Tripping class

AC class-Tripping is ensured for sinusoidal,alternating currents,whether they be quickly applied or slowly increase.

A class-Tripping is ensured for sinusoidal alternating residual currents as well as for pulsed DC residual currents , whether they be quickly applied or slowly increase·

[S] class-Be used as upstream group switch for selective tripping contrary to a downstream standard RCCB

C. Residual current protective devices normally has an instantaneous tripping operation . This means that a series connection of this type ot residual current protective devices does not provide selective tripping in the event of a fault . In order to achieve selectivitv for a series connect of residual current protective devices,both the tripping time and the rated residual current of series-connected devices must be time graded selective residual current protective devices has a tripping delay .

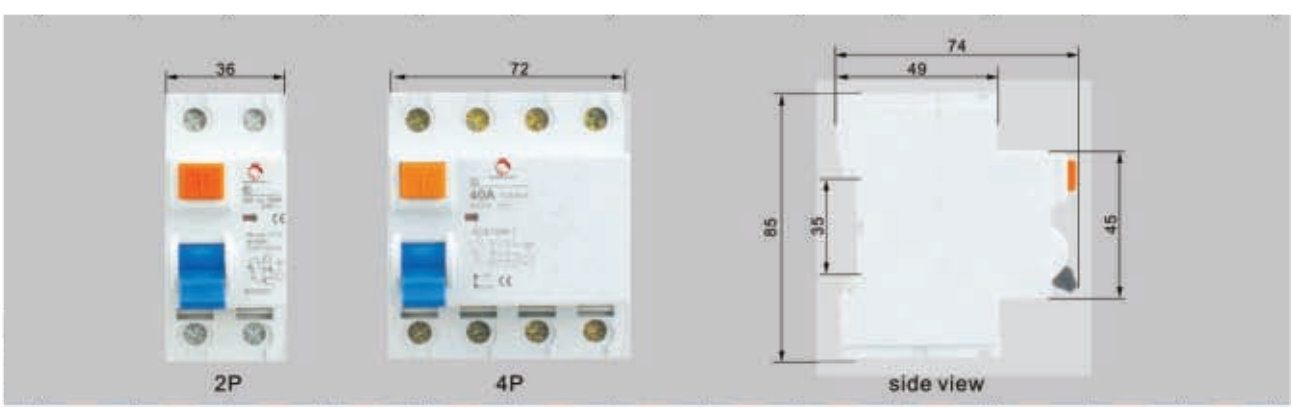
The table below shows the time grading options available for residual current protective devices for selective tripping in series connection with devices without time delay and with short-time delay

ID Residual Current Circuit Breaker

2. Specifications

Standard			IEC61008-1
Electrical features	Type(wave form of the earth leakage sensed)		AC,A
	Rated current In	A	25,40,63
	Poles	P	2,4
	Rated voltage Ue	V	230/400
	Rated sensitivity I△n	A	0.03,0.1,0.3
	Insulation voltage Ui	V	500
	Rated residual making and breaking capacity I△m	A	500(In=25A/40A) 630(In=63A)
	Short-circuit current I△c	A	6000/10000
	SCPD fuse	A	10000
	Break time under I△n	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000
	Dielectric test voltage at ind. Freq. for 1 min	kV	2.5
	Pollution degree		2
Mechanical features	Electrical life	t	2.000
	Mechanical life	t	2.000
	Fault current indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average≤35℃)	℃	-5~+40
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2.5
		In-lbs.	22
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

3. Overall and mounting dimensions(mm)

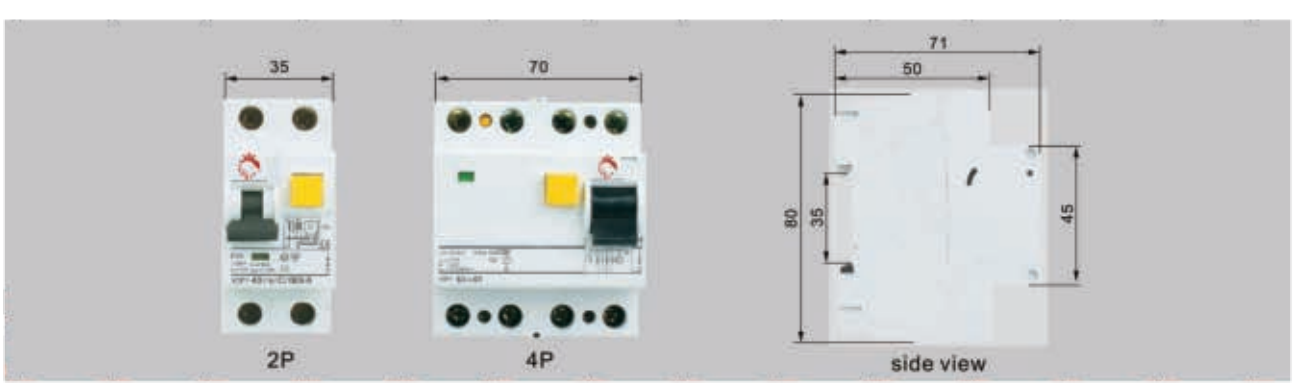


YCF7,YCF7N Residual Current Device

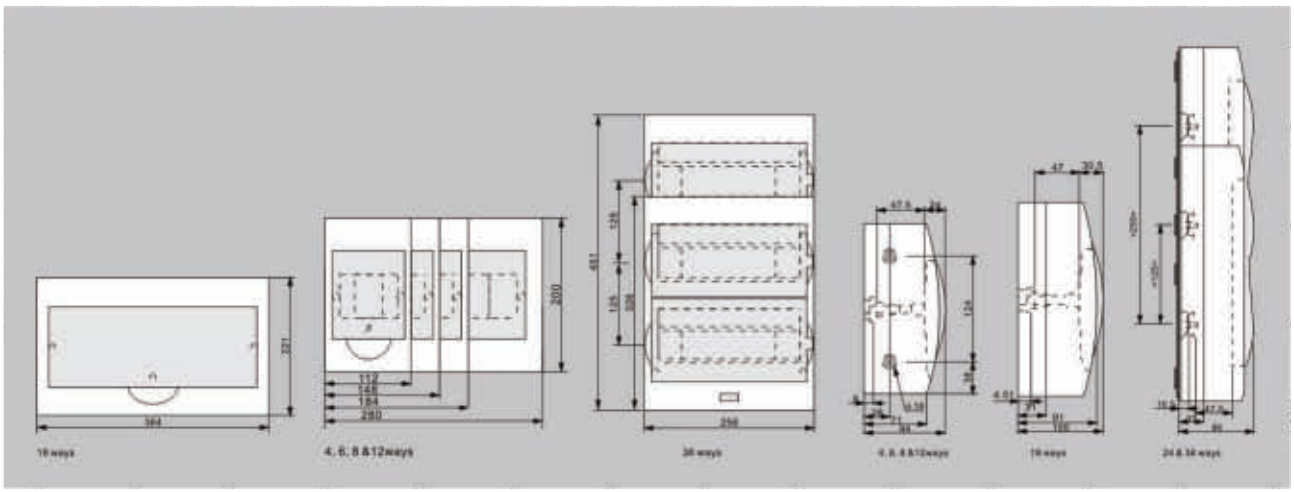
1. Specifications

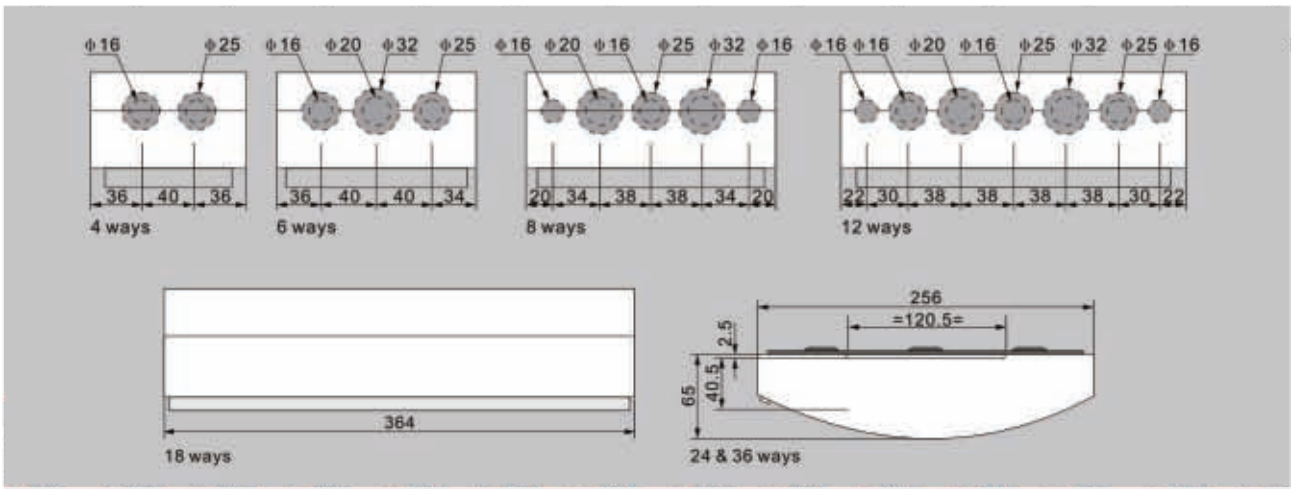
Standard		IEC61008
Type		AC,A
Rated current In	A	16,25,32,40,63
Poles	P	2,4
Rated voltage Ue	V	230,400
Rated sensitivity I△n	A	0.03,0.1,0.3
Break time under I△n	s	≤0.1
Rated frequency	Hz	50/60
Rated impulse withstand voltage (1.2/50) Uimp	V	6000
Insulation voltage Ui	V	500
Electrical life	t	2000
Mechanical life	t	4000
SCPD fuse	A	10000
Terminal size top/ bottom for cable and busbar	mm^2	25
Tightening torque	N*m	2
Mounting		On DIN rail EN60715 (35mm) by means of fast clip device
Connection		From top

2. Overall and mounting dimensions(mm)

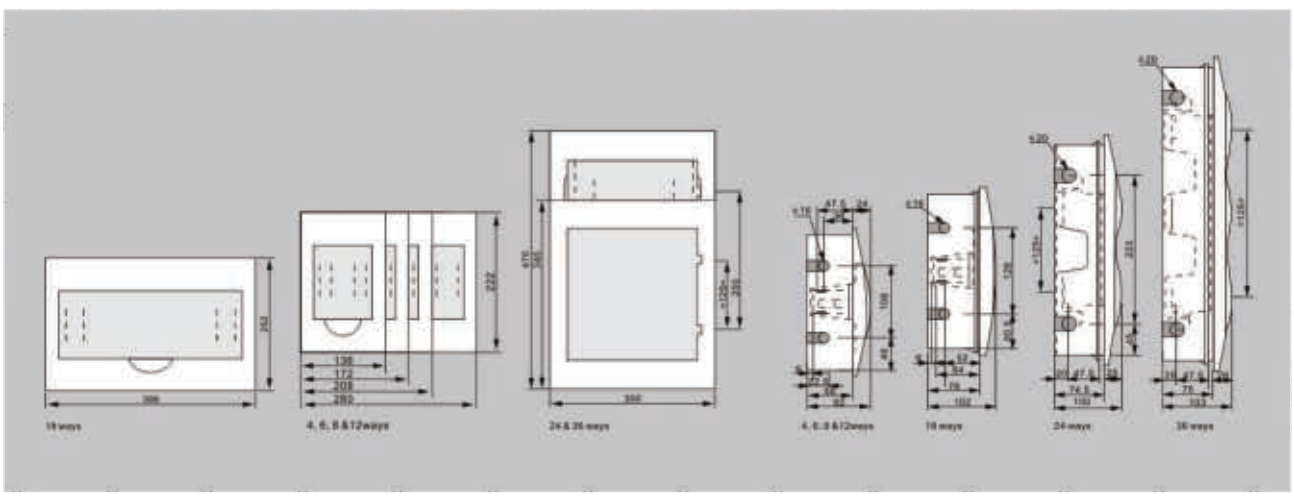


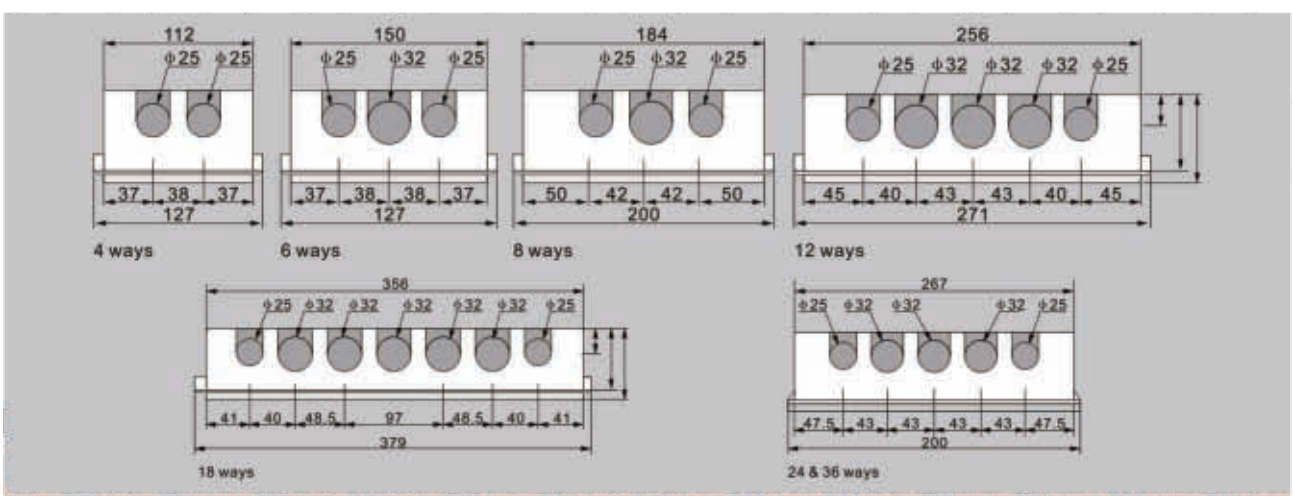
YC–XSA *Surface Mount* Distribution Box





YC-XSA F*lush* M*ount* Distribution Box





Distribution Box

1. Specifications

Type \ Size	Flush mount W×H×D/mm	Surface mount W×H×D/mm
PZ30-2 ways	150×85×80	180×120×80
PZ30-4 ways	160×140×85	187×167×85
PZ30-8 ways	200×170×90	227×197×90
PZ30-10 ways	200×210×90	237×227×90
PZ30-12 ways	260×260×90	287×287×90
PZ30-15 ways	260×350×90	287×327×90
PZ30-18 ways	260×400×90	287×377×90
PZ30-20 ways	260×460×90	287×427×90
PZ30-24 ways	300×460×90	487×287×90
PZ30-30 ways	350×460×90	487×377×90
PZ30-36 ways	400×460×90	487×427×90
PZ30-45 ways	640×350×90	667×377×90
PZ30-60 ways	460×700×90	487×727×90

Type \ Size	W×H×D/mm
1 Outlets	420×270×140
2 Outlets	420×380×140
3 Outlets	420×520×140
4 Outlets	420×600×140

YCM1 Moulded Case Circuit Breaker

1. General

1.1 Electric ratings: AC 690V,50/60Hz, 10~800A;
1.2 Mounting mode: vertical and horizontal;
1.3 Standard: IEC/EN60947-2.

2. Type designation

YC M 1 - □ □ □ / □ □ □ □

- Type of N-pole for 4-P breaker*
- Application: Blank: 1. for power distribution; 2. for motor protection
- Release type and accessory code
- Number of poles
- Operation mode: Blank: direct operation with handle; P: motor-driven operation; Z: Operation with rotary handle
- Code of breaking capacity: L-standard type; M-higher type; H-current limting type
- Frame size
- Design sequence number
- MCCB
- Company code

Note*: There are 4 types of N-pole for 4P breaker
A: Without current release components, N-Pole is always at making status, not makes and breaks with other three poles;
B: Without current release components, N-Pole makes with the other three poles(N-Pole first makes then breaks);
C: With current release components, N-Pole makes and breaks with other three poles(N-Pole first makes then breaks);
D: With current release components, N-Pole is always at making status, not makes and breaks with other three poles;

3. Operation conditions

3.1 Temperature: -5℃~+40℃; the average value within 24h shall not exceed +35℃. For the circuit breaker with thermo-magnetic release, +40℃ is set to be the standard temperature for ratings. For temperature not between -5℃~+40℃, please contact us for temperature compensation correction;
3.2 Altitude: not exceed 2000m(Please contact with us for reduction coefficient if altitude at the mounted site exceed 2000m)
3.3 Pollution grade: Grade 3;
3.4 Air conditions:
At mounting site, relative humidity not exceed 50% at the max temperature of +40℃, higher relative humidity is allowable under lower temperature. For example, RH could be 90% at +20℃, special measures should be taken to occurrence of dews.

YCM1 Series Moulded Case Circuit Breaker

4. Specifications

Type			YCM1-63		YCM1-100				YCM1-225				YCM1-400				YCM1-630				YCM1-800			
Poles	P		3	4	3		4		3		4		3		4		3		4		3		4	
Rated current In	A		10,16,20,25, 32,40,50,63		10,16,20,25, 32,40,50,63, 80,100				100,125, 160,180, 200,225				200,250, 315,350, 400				400,500, 630				400,500, 630,700, 800			
Rated insulation voltage Ui	V		690		800																			
Rated impulse withstand voltage Uimp	V		6000		8000																			
Rated operation voltage Ue	V		400		AC400/690																			
Breaking capacity class			L	M	L	M	H		L	M	H		L	M	H		L	M	H		L	M	H	
Limit short-circuit breaking capacity Icu	kA	400V	25	50	35	50	85	50	35	50	85	50	50	70	100	50	45	65	100	65	50	70	100	50
		690V				20		20		20		20		20				20				20		
Working short-circuit breaking capacity Ics	kA	400V	18	30	26	30	43	30	26	30	43	30	30	40	50	30	34	42	65	42	30	40	50	30
		690V				10		10		10		10		10				10				10		
Arcing distance	mm				50												100							
Operation times	t		120		120				120				60				60				20			
			4000		3000				1500				1000				1000				500			
			6000		7000				6500				4000				4000				2500			
Power loss	W		20	25	33	35	40	40	26	63	55	60	60	40	80	80	40	120	130	150	150	200	125	135	180
			25	30		40	50	50			65	75	75			100	110		180	200	200		170	190	
Overall dimensions	mm		135		150				165				257				270				280			
			76	103	92		65	122	107		75	142	140		184		182		240		210		280	
			74	82	82	68	87		87	104			100				108				103			
Install dimensions	mm		25	50	30			60	35			70	44		88		58		118		70		140	
			117	117	129		129	129	126		126	126	215		215		200		200		243		243	
			3.5	3.5	4.5		4.5	4.5	5.5		5.5	5.5	6.5		6.5		7		7		7		7	

YCM2 Moulded Case Circuit Breaker

1. General

YCM2 series moulded case circuit breaker, is suitable for the circuit of AC 50/60Hz,rated insulation voltage 660V, rated operating voltage under AC 660V,250V(DC),rated operating current 12.5-800A. It is for distributing energy of electricity and infrequent making and circuit under normal conditions. YCM2 are provided with the function of the protection against overload and short circuit and undervoltage. The YCM2 complies with standard of IEC60947-2.

2. Specifications

Table 1

Rated current of release(A)	Thermo dynamic release (ambient temperature +40℃)		Operational current of magnetic release(A)
	1.05In(cold state) non-tripping time(h)	1.30In(heat state) non-tripping time(h)	
In≤63	≥1	<1	10-50In±20%
63<In≤250	≥2	<2	10In±20%
25<In≤800	≥2	<2	5-10In±20%

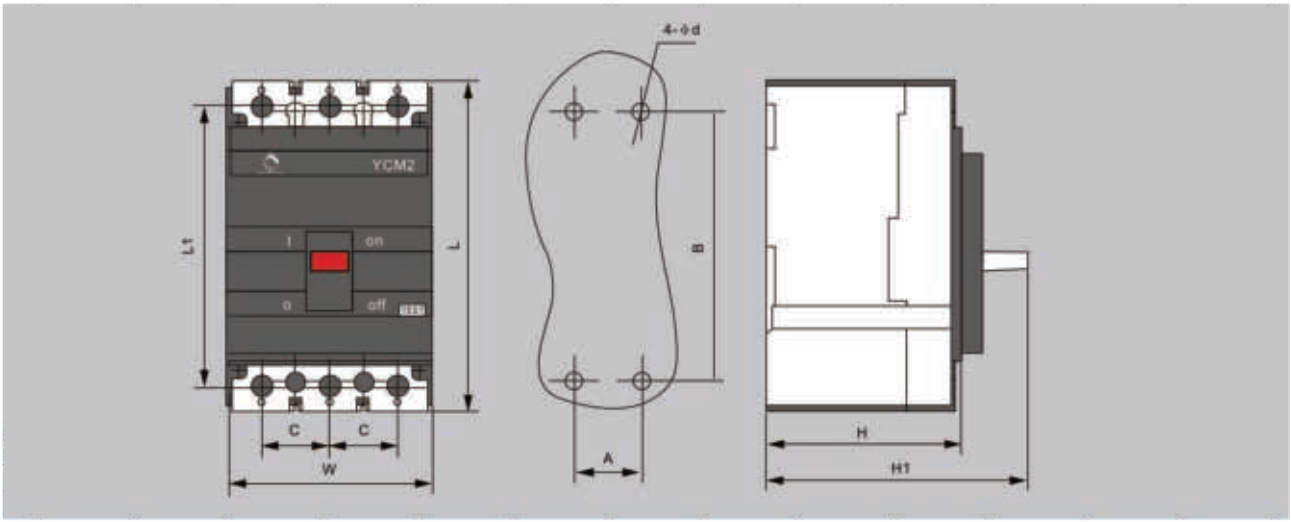
Table 2

Rated current of release(A)	Thermo dynamic release (ambient temperature +40℃)				Operational current of magnetic release (A)
	1.0In(cold state) non-tripping time(h)	1.20In(heat state) non-tripping time(h)	1.50In(heat state) non-tripping time(h)	1.01In(heat state) non-tripping time(h)	
12.5<In≤400	≥2	<2	<4min	2S<Tp≤10S	12In±20%

YCM2 Moulded Case Circuit Breaker

Type	Rated current (A)	Poles	Rated insulation voltage (V)	Rated operation voltage (V)	Arcing over distance (mm)	Ultimate short circuit breaking capacity (kA)			Servies short circuit breaking capacity(kA)		Operation life (times)	
											Electrical	Mechanical
YCM2-125E	12.5, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125	2 3 4	660	380 660	≥30	15	-	-	7.5	-	3000	7000
YCM2-125S						25	-	20	16	-		
YCM2-160S	16, 20, 32, 40, 50, 63, 80, 100, 125, 160				0	35	8	20	18	-	4000	6000
YCM2-160H						50	10	40	25	-		
YCM2-250S	100, 125, 160, 180, 200, 225, 250					35	10	40	18	-	2000	6000
YCM2-250M						50	16	40	30	-		
YCM2-250H						65	18	40	48	-		
YCM2-400S	200, 225, 250, 315, 350, 400					35	16	40	18	-	1000	4000
YCM2-400M						50	20	40	30	-		
YCM2-400H						65	25	40	48	-		
YCM2-630S	400, 500, 630					50	20	40	30	-	1000	4000
YCM2-630M						65	25	40	48	-		
YCM2-630H						80	30	40	60	-		
YCM2-800S	500, 630, 700, 800					50	20	40	30	-	1000	4000
YCM2-800M						65	25	40	48	-		
YCM2-800H						80	30	40	60	-		

3. Overall and mounting dimensions(mm)



Type	Outline dimensions					Installation dimensions			
	W	L	H	H1	L1	C	A	B	d
YCM2-125	78	120	71	91	102	25	25	100	4.5
YCM2-160	90	120	71	93	102	30	30	100	4.5
YCM2-250	105	170	103.5	135	139	35	35	139	5.5
YCM2-400	140	254	101.5	135	218	43.75	43.75	214	5.5
YCM2-630/800	210	268	103.5	159	241	70	70	237	5.5

YCM3 Moulded Case Circuit Breaker

1. General

YCM3 series moulded case circuit breaker is one of the most advanced type breaker in the world, which adopts international advanced design and manufactural technology. They are suitable for short circuit and overload protection in circuit of AC 690V 50/60Hz,rated current from 12.5A to 630A. Its rated operating voltage is 690V. It can make and break the unfrequent circuit under normal conditions. It takes protective effect when squirell-cage motors unfrequently start, making& breaking and protecting against overload, short circuit and lacking voltage.

2. Specifications

Table 1

Rated current of release(A)	Thermo dynamic release (ambient temperature +40℃)		Operational current of magnetic release(A)
	1.05In(cold state) non-tripping time(h)	1.30In(heat state) non-tripping time(h)	
In≤63	≥1	<1	10In±20%
63<In≤100	≥2	<2	10In±20%
25<In≤630	≥2	<2	5-10In±20%

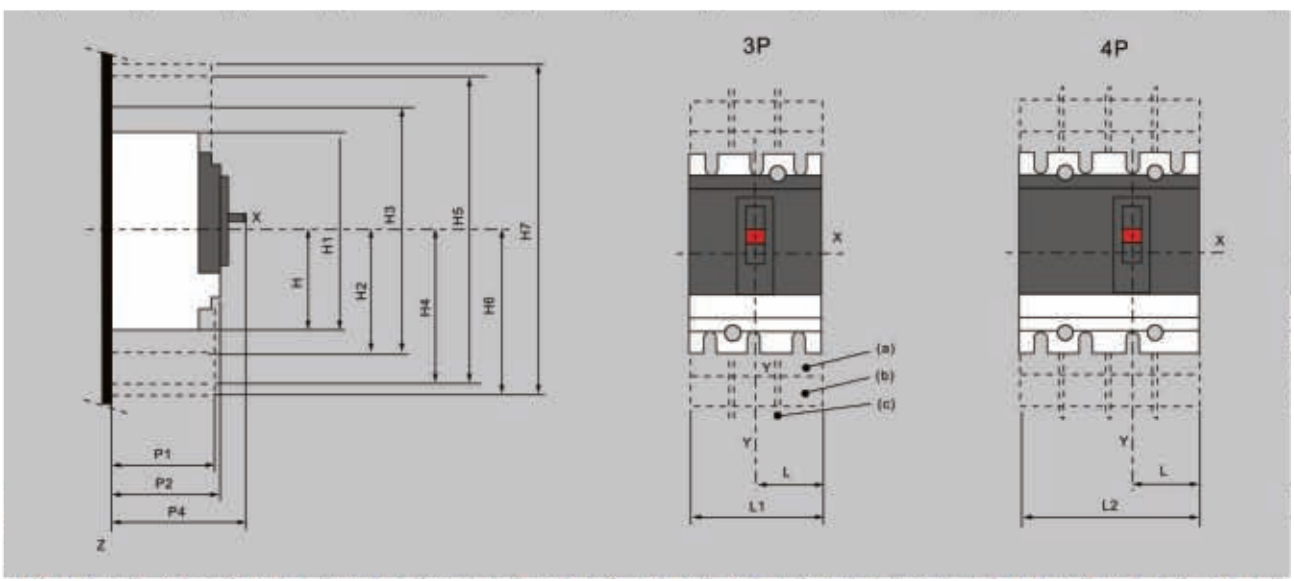
Table 2

Rated current of release(A)	Thermo dynamic release (ambient temperature +40℃)				Operational current of magnetic release (A)
	1.0In(cold state) non-tripping time(h)	1.20In(heat state) non-tripping time(h)	1.50In(heat state) non-tripping time(h)	1.01In(heat state) non-tripping time(h)	
12.5<In≤630	≥2	<2	<4min	2S<Tp≤10S	12In±20%

YCM3 Moulded Case Circuit Breaker

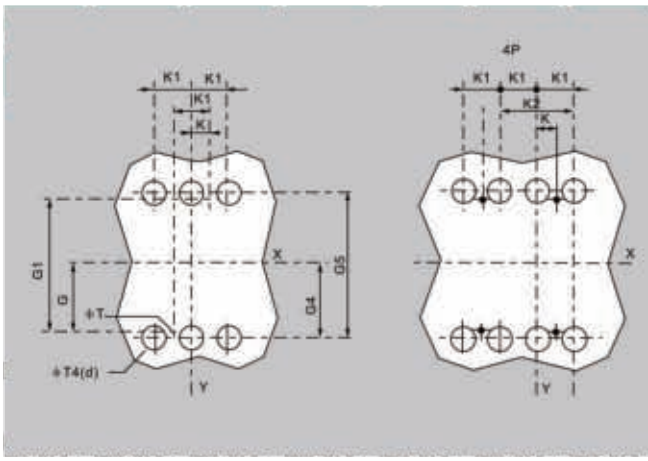
Type	Rated current (A)	poles	Rated insulating voltage(V)	Rated operating voltage(V)	Arcing over distance (mm)	Ultimate short circuit breaking capacity (kA)	Servies short circuit breaking capacity (kA)	Operation life (times)	
								Electrical	Mechanical
YCM3-100D	12.5,16,20, 25,32,40, 50,63,80, 100	3,4	950	690	0	18	18	1500	8500
YCM3-100N						25	25		
YCM3-100H						70	70		
YCM3-100L						150	150		
YCM3-160D	16,20,25, 32,40,50, 63,80,100, 125,160					25	25	1000	7000
YCM3-160N						36	36		
YCM3-160H						70	70		
YCM3-160L						150	150		
YCM3-250D	160,180, 200,225, 250					25	25	1000	7000
YCM3-250N						36	36		
YCM3-250H						70	70		
YCM3-250L						150	150		
YCM3-400D	200,225, 250,300, 315,400					35	35	1000	4000
YCM3-400N						45	45		
YCM3-400H						70	70		
YCM3-400L						150	150		
YCM3-630D	315,350, 400,500, 600,630					35	35	1000	4000
YCM3-630N						45	45		
YCM3-630H						70	70		
YCM3-630L						150	150		

3. Overall and mounting dimensions(mm)

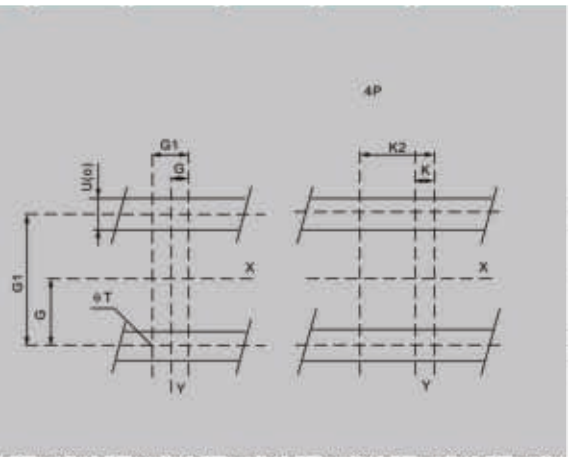


YCM3 Moulded Case Circuit Breaker

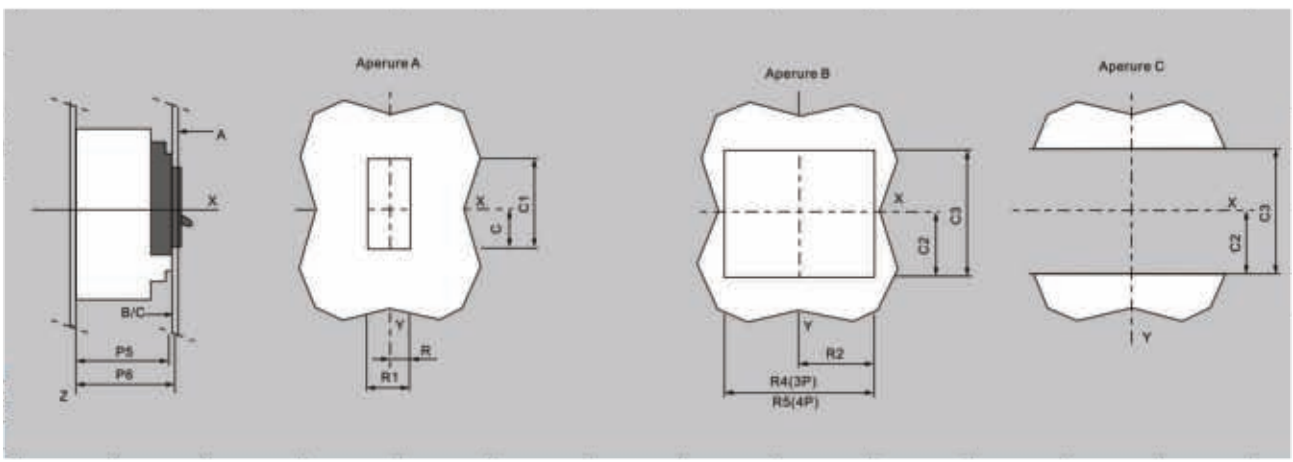
Mounting on backplate
3P



Mounting on rails
3P



Aperture on a front panel
Fitting to fixed and plug-in circuit breaker



mm	C	C1	C2	C3	G	G1	G4	G5	H	H1	H2
YCM3 100/160/250N/H/L	29	76	54	108	62.5	125	70	140	80.5	161	94
YCM3 400/630N/H/L	41.5	116	92.5	184	100	200	113.5	227	127.5	255	142.5

mm	H3	H4	H5	H6	H7	K	K1	K2	L	L1	L2	P1	P2	P4	P5
YCM3 100/160/250N/H/L	188	160.5	321	178.5	357	17.5	35	70	52.5	105	140	81	86	111*	83
YCM3 400/630N/H/L	285	240	480	237	474	22.5	45	90	70	140	185	95.5	110	168	107

mm	P6	R	R1	R2	R4	R5	ϕT	ϕT4	(Ue)
YCM3 100/160/250N/H/L	88	14.5	29	54	108	143	6	22	≤32
YCM3 400/630N/H/L	112	31.5	63	71.5	143	188	6	32	≤32

GV Motor Protection Circuit Breaker

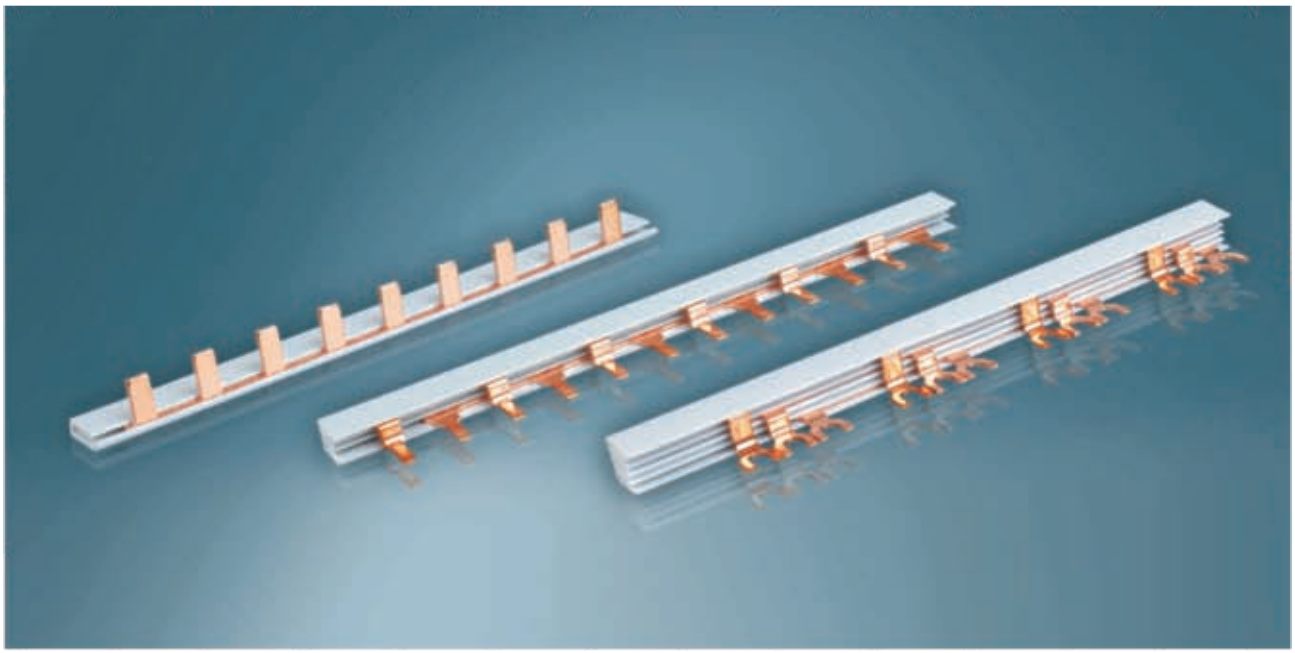
1. General

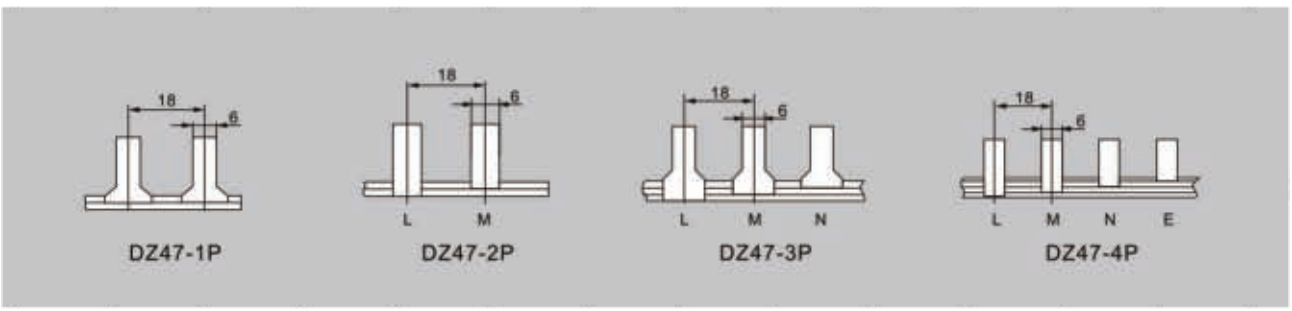
GV series motor protection circuit breaker is mainly used for the overload and short circuit protection of the motor in AC 50/60Hz, up to 660V, 0.1-80A power circuit, as a full-voltage starter to start and cut off the motor, under the AC3 load or for the overload and short circuit protection of the circuit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

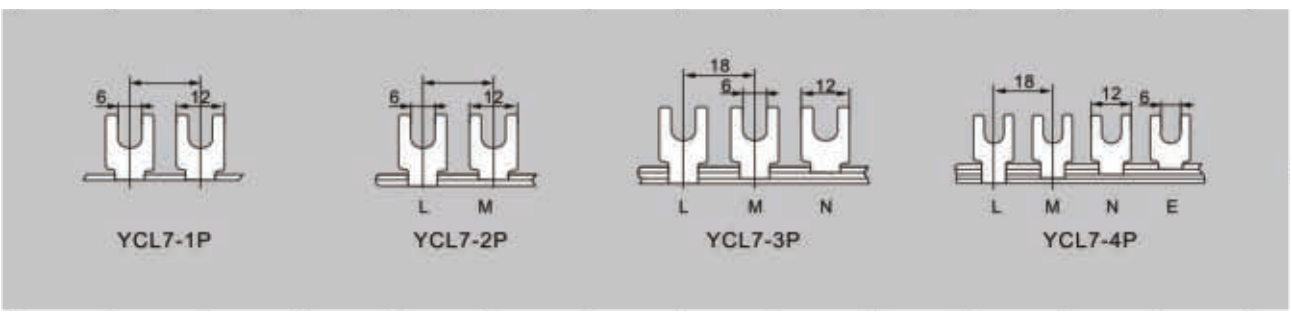
2. Specifications

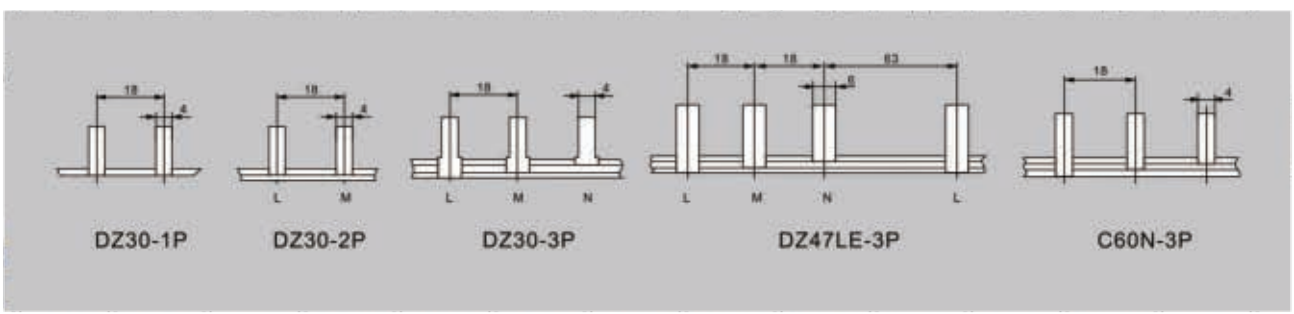
Type		Standard power ratings of 3-phase motors 50/60Hz in category AC-3						Current setting range
		220V	380V	415V	440V	500V	660V	
		kW	kW	kW	kW	kW	kW	
GV2-M01/ME01		-	-	-	-	-	-	0.1-0.16
GV2-M02/ME02		-	-	-	-	-	-	0.16-0.25
GV2-M03/ME03		-	-	-	-	-	-	0.25-0.4
GV2-M04/ME04		-	-	-	-	-	0.37	0.4-0.63
GV2-M05/ME05		-	-	-	0.37	0.37	0.55	0.63-1
GV2-M06/ME06	GV3-M06/ME06	-	0.37	-	0.55	0.75	1.1	1-1.6
	GV3-M07/ME07	0.37	0.75	1.1	1.1	1.1	1.5	1.6-2.5
GV2-M07/ME07		0.37	0.75	0.75	1.1	1.1	1.5	1.6-2.5
GV2-M08/ME08	GV3-M08/ME08	0.75	1.5	1.5	1.5	2.2	3	2.5-4
	GV3-M10/ME10	1.1	2.2	2.2	3	3.7	4	4-6
GV2-M10/ME10		1.1	2.2	2.2	3	3.7	4	4-6.3
GV2-M14/ME14	GV3-M14/ME14	2.2	4	4	4	5.5	7.5	6-10
GV2-M16/ME16		3	5.5	5.5	7.5	7.5	9	9-14
	GV3-M20/ME20	4	7.5	7.5	7.5	10	11	10-16
GV2-M20/ME20		4	7.5	9	9	9	11	16-20
GV2-M21/ME21		5.5	11	11	11	11	15	17-23
GV2-M22/ME22		5.5	11	11	11	15	18.5	20-25
GV2-M32/ME32		7.5	15	15	15	18.5	26	24-32
	GV3-M25/ME25	5.5	11	11	11	15	18.5	16-25
	GV3-M40/ME40	11	18.5	22	22	25	33	25-40
	GV3-M63/ME63	15	30	33	33	40	55	40-63
	GV3-M80/ME80	22	40	45	45	55	63	56-80

Busbar



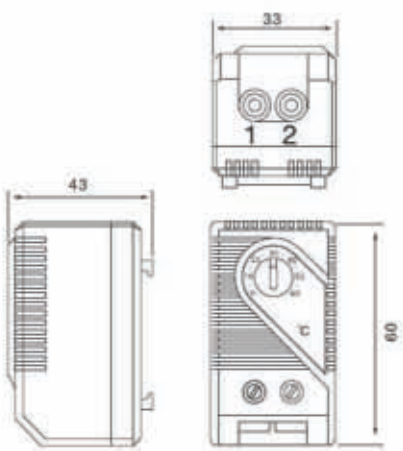

18
6
DZ47-1P
L M
DZ47-2P
L M N
DZ47-3P
L M N E
DZ47-4P


6 12
YCL7-1P
L M
YCL7-2P
18 6 12
L M N
YCL7-3P
18 12 6
L M N E
YCL7-4P

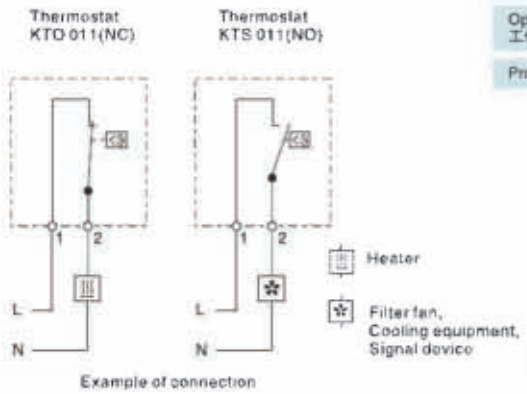

DZ30-1P
DZ30-2P
DZ30-3P
DZ47LE-3P
C60N-3P

- Large setting range /设定范围广
- Small size /体积小
- Simple to mount /便于安装
- High switching performance /高切换性能

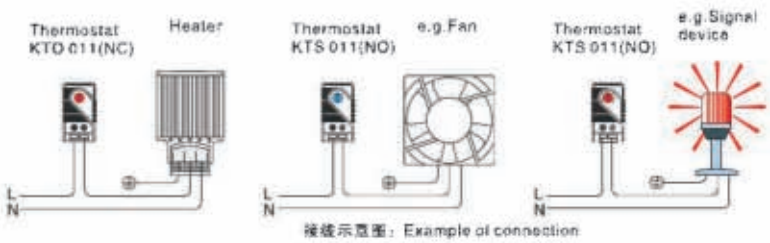
KTO 011：The rmostat(normally closed)，contact breaker for regulating heaters.
KTS 011：Thermostat(normally open)，contact maker for regulating of filter fans and heat exchangers or for switching signal devised when temperature limit has been exceeded.
KTO 011：温控器(常闭)，用于调控加热器。
KTS 011：温控器(常开)，当温度超出设定值时开关装置可以启动风机或信号装置。



Technical Data 技术参数	
Switch temperature difference 切换温差	7K(±4K tolerance) 7K(±4K公差)
Sensor element感应元件	thermostatic bimetal恒温双金属片
Contact type接触器种类	snap-action contact突跳式接触头
Contact resistance接触电阻	<10mΩ
Service life使用寿命	>100 000 cycles >100 000周期
Max switching capacity最高切换负荷	250VAC，10(2)A
	120VAC，15(2)A
	DC 30W
EMC电磁兼容性	acc to EN 55014-1-2，EN 61000-3-2，EN 61000-3-3 符合依据EN 55014-1-2，EN 61000-3-2，EN 61000-3-3标准
Connection接线	2-pole terminal, clamping torque 0.5Nm max. rigid wire 2.5mm², stranded wirelwith wire end ferrule1.5mm² 2极端子台，夹紧最大扭矩0.5Nm，软件线 2.5mm²，软线线(线端带铁帽)1.5mm²
Mounting安装方式	clip for 35mm DIN rail，EN50022(or for exit filter EF 118 Series) 卡槽适于DIN35导轨
Casing外壳	plastic according to UL94 V-0，light grey塑料，UL，浅灰
Dimensions 外形尺寸	60 × 33 ×43mm
Weight重量	Approx. 40g,约40克
Fitting position安装方向	Variable 任意
Operating/Storage temperature 工作/储存温度	−20 to+80℃(−4 to+176°F)/−45 to+80℃(−49 to+176°F)
Protection type保护等级	IP20



Example of connection



接线示意图：Example of connection

设定范围Setting range	订货代号Art.No. Contact Breaker(NC)	订货代号Art.No. Contact macker(NO)
0 to +60℃	01140.0-00	01141.0-00
−10 to +50℃	01142.0-00	01143.0-00
+20 to +80℃	01159.0-00	01158.0-00
+32 to +140℃	01140.9-00	01141.9-00
+14 to +122°F	01142.9-00	01143.9-00
0 to +60℃	01146.9-00	01147.9-00

CJX2 AC Contactor

1. General

CJX2 series AC Contactor is suitable for using in the circuits the rated voltage up to 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 60947-4.

2. Standard control voltage

Volts	24	42	48	110	220	230	240	380	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	-	-

3. Type designation

Name	Rated current	Auxiliary contact	Pole number	Coil voltage	Frequency
CJX2	▭	▭	▭	*	·

Rated current (A)	Auxiliary contact		Type
	Normal open (NO)	Normal close (NC)	
9	1	-	CJX2-0910*.
	-	1	CJX2-0901*.
12	1	-	CJX2-1210*.
	-	1	CJX2-1201*.
18	1	-	CJX2-1810*.
	-	1	CJX2-1801*.
25	1	-	CJX2-2510*.
	-	1	CJX2-2501*.
32	1	-	CJX2-3210*.
	-	1	CJX2-3201*.
40	1	-	CJX2-4011*.
50	-	1	CJX2-5011*.
65	1	-	CJX2-6511*.
80	-	1	CJX2-8011*.
95	1	-	CJX2-9511*.

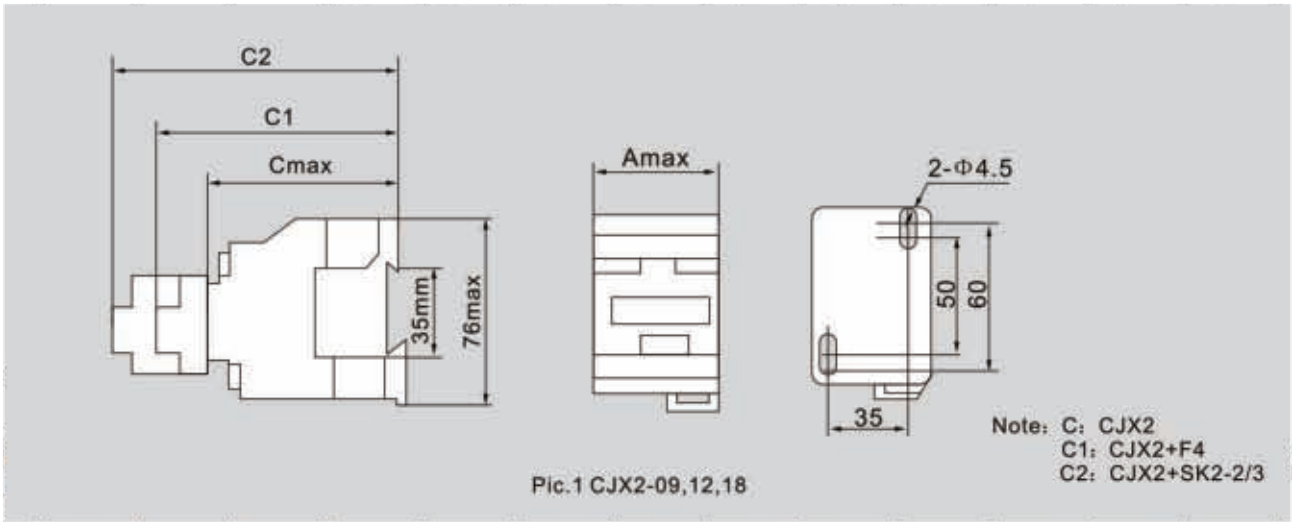
Note:3 pole is normal type,not remarked in the type name.

CJX2 AC Contactor

4. Specifications

Type			CJX2-09	CJX2-12	CJX2-18	CJX2-25	CJX2-32	CJX2-40	CJX2-50	CJX2-65	CJX2-80	CJX2-95
Main circuit characteristic												
Rated operation voltage (Ue)		V	380,660									
Rated insulation voltage (Ui)		V	690									
Rated thermal current (Ith)		A	20	20	32	40	50	60	80	80	125	125
Rated operation current (Ie)	AC-3.380V	A	9	12	18	25	32	40	50	65	80	95
	AC-3.660V	A	6.6	8.9	12	18	21	34	39	42	49	55
	AC-4.380V	A	3.5	5	7.7	8.5	12	18.5	24	28	37	41
	AC-4.660V	A	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
Max. power of 3 phase motor controlled	AC-3.220V	kW	2.2	3	4	5.5	7.5	11	15	18.5	22	25
	AC-3.380V	kW	4	5.5	7.5	11	15	18.5	22	30	37	45
	AC-3.660V	kW	5.5	7.5	10	15	18.5	30	33	37	45	55
Electrical life	AC-3	10000 t	100				80	80			60	
	AC-4	10000 t	20				20	15			10	
Machinical life		10000 t	1000				800	800			600	
Operation frequency	AC-3	t/h	1200				600	600			600	
	AC-4	t/h	300				300	300			300	
Matching fuse type			RT16-20	RT16-20	RT16-32	RT16-40	RT16-50	RT16-63	RT16-80	RT16-80	RT16-100	RT16-125
Matching thermal relay type			JR28-25	JR28-25	JR28-25	JR28-25	JR28-36	JR28-93	JR28-93	JR28-93	JR28-93	JR28-93
Wiring capacity		mm2	1.5	1.5	2.5	4	6	10	16	16	25	35
Coil												
Control power voltage (Us)	AC	V	36,110,127,220,380									
Allowed control circuit voltage	Close	V	85%~110%Us									
	Open	V	20%~75%Us (AC)									
Coil power	Close	VA	70			110	200					
	Keeping	VA	8			11	20					
	Loss power	W	1.8~2.7			3~4	6~10					
Auxiliary contact												
Rated thermal current (Ith)		A	10									
Rated operation voltage (Ue)	AC	V	380									
	DC	V	220									
Rated control capacity	AC-15	VA	360									
	DC-13	W	33									

5. Overall and Mounting Dimensions(mm)

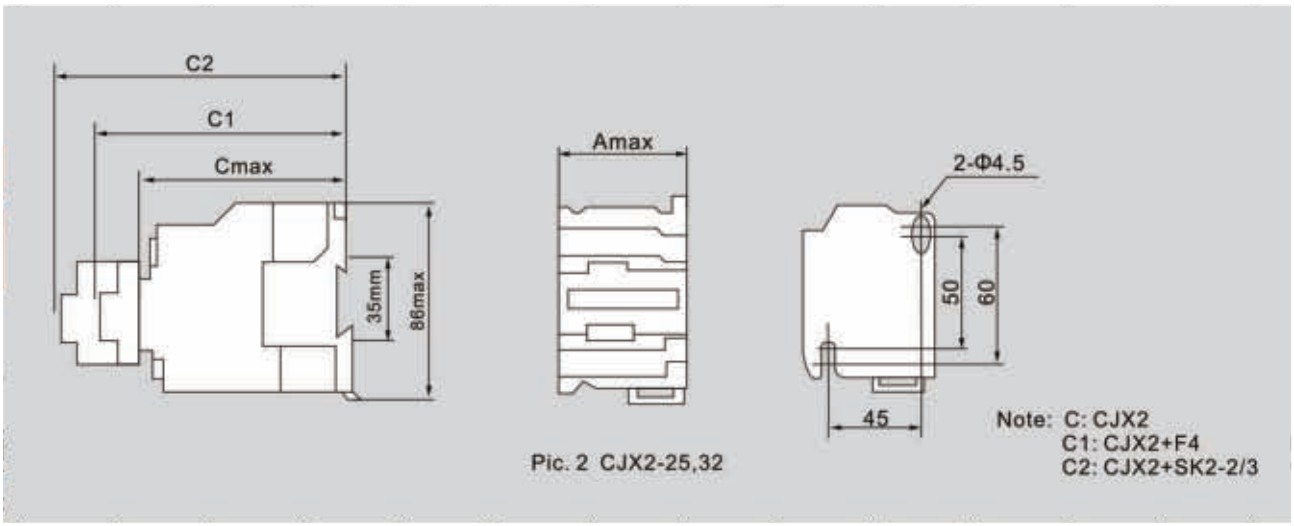


Pic.1 CJX2-09,12,18

Unit:mm

Type	Amax	Cmax	C1	C2
CJX2-09,12	47	82	115	134
CJX2-18	47	87	120	139

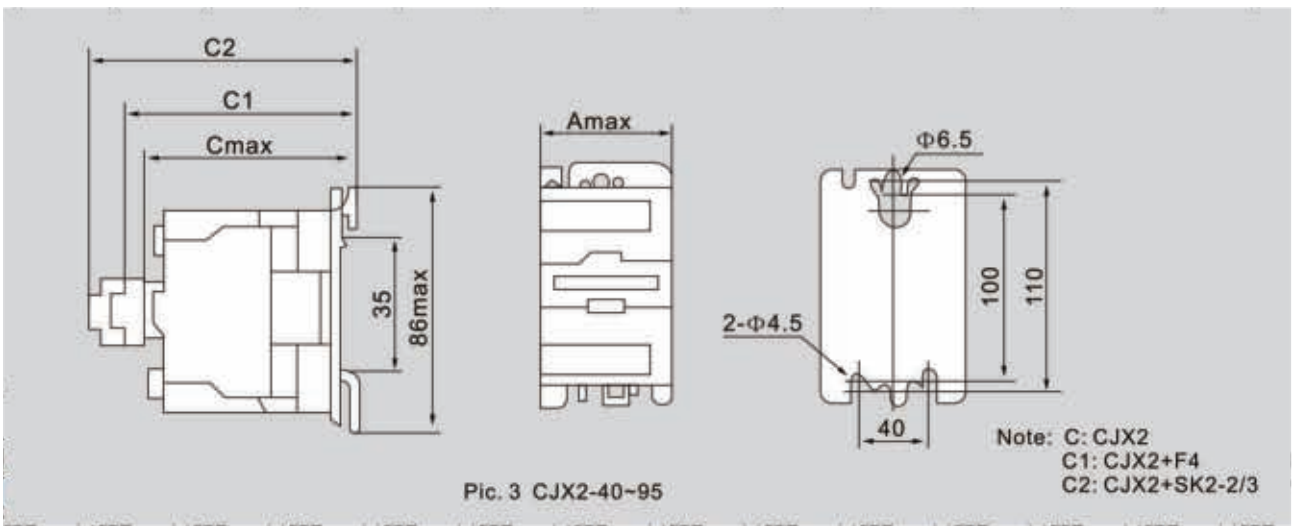
CJX2 AC Contactor



Pic. 2 CJX2-25,32

Unit:mm

Type	Amax	Cmax	C1	C2
CJX2-25	59	97	130	149
CJX2-32	59	102	135	154



Pic. 3 CJX2-40~95

Unit:mm

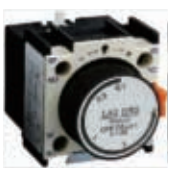
Type	Amax	Cmax	C1	C2
CJX2-40,50,65	79	116	149	168
CJX2-80,95	87	127	160	179

6. Operation and installation condition

Ambient temperature	-5℃~+40℃
Altitude	≤2000m
Relative humidity	The maximum temperature of 40 degrees, the air relative humidity not exceed 50%, at a lower temperature can allow for a higher relative humidity, if humidity changes as a result of occasional gel generated,should eliminate it.
Pollution level	3
Installation category	III
Installation position	The installation degree of the tilt and vertical plane should not exceed ±22.5° , should be installed in place with no significant impact shaking and vibration
Installation	The installation of fastening screws can be used,the CJX1-9~38 contactor can also be installed on 35mm standard DIN rail.

CJX2 AC Contactor

LA1-D, LA2-D, LA3-D Contact Block

Type		Configuration of contacts	
		Number of N/O contact	Number of N/C contact
LA1-DN20		2	0
LA1-DN11		1	1
LA1-DN02		0	2
LA1-DN40		4	0
LA1-DN31		3	1
LA1-DN22		2	2
LA1-DN13		1	3
LA1-DN04		0	4
Type		Time-delay range	Number of time-delay contacts
LA2-DT0		0.1s~3s	N/O+N/C
LA2-DT2		0.1s~30s	N/O+N/C
LA2-DT4		10s~180s	N/O+N/C
LA3-DR0		0.1s~3s	N/O+N/C
LA3-DR2		0.1s~30s	N/O+N/C
LA3-DR4		10s~180s	N/O+N/C

LX1-D Coil

Type		Voltage (V)	12	24	36	42	48	110	127	220	230	240	380	400	415	440	500	660
LX1-D2		50Hz	J5	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	V5	N5	R5	S5	Y5
LX1-D4		60Hz	-	B6	-	D6	E6	F6	-	M6	-	U6	Q6	-	-	R6	-	-
LX1-D6		50/60Hz	-	B7	-	D7	E7	F7	-	M7	P7	U7	Q7	V7	N7	R7	-	-

YCGMC AC Contactor

1. General

YCGMC series AC Contactor is suitable for using in the circuits up to the rated voltage 660V AC 50/60Hz, 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 60947-4.

2. Specifications

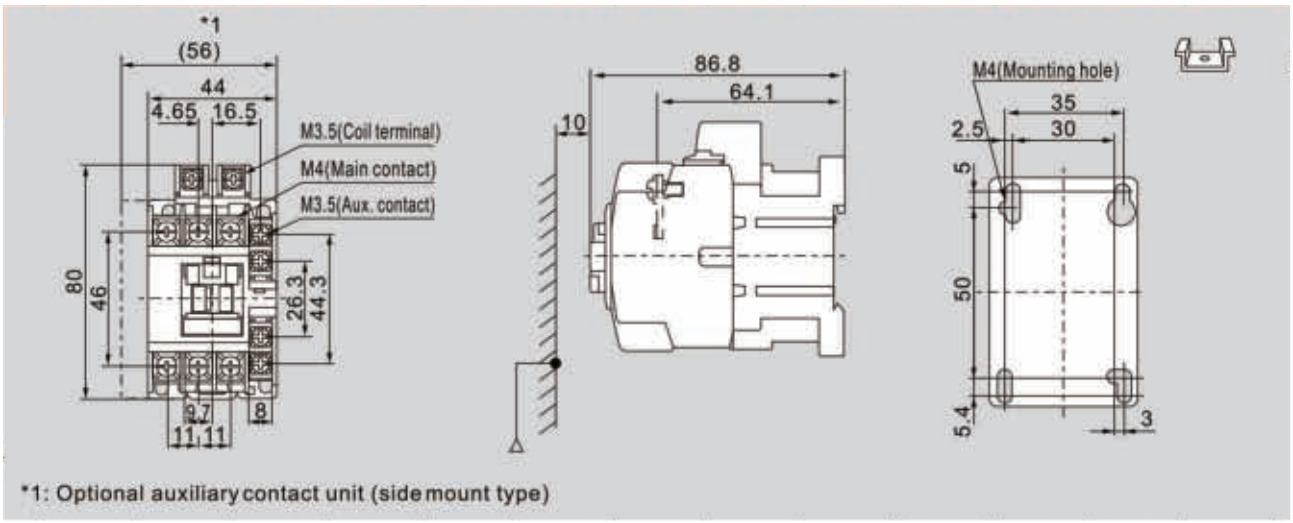
Type			YCGMC-9	YCGMC-12	YCGMC-18	YCGMC-22	YCGMC-32
IEC-60947	AC-1 duty		25A	25A	40A	40A	50A
	AC-3 duty	200~240V	2.5kW11A	3.5kW13A	4.5kW18A	5.5kW22A	7.5kW32A
		380~440V	4kW9A	5.5kW12A	7.5kW18A	11kW22A	15kW32A
		500~550V	4kW7A	7.5kW12A	7.5kW13A	15kW22A	18.5kW28A
		690V	4kW5A	7.5kW9A	7.5kW9A	15kW18A	18.5kW20A
Life time (unit:10,000 time)		Electrical	250	250	250	250	200
		Mechanical	2500	2500	2500	2500	1500
Auxiliary Contact		Standard	1NO+1NC	1NO+1NC	1NO+1NC	1NO+1NC	2NO+2NC

Type			YCGMC-40	YCGMC-50	YCGMC-65	YCGMC-75	YCGMC-85
IEC-60947	AC-1 duty		60A	80A	100A	110A	135A
	AC-3 duty	200~240V	11kW40A	15kW55A	18.5kW65A	22kW75A	25kW85A
		380~440V	18.5kW40A	22kW50A	30kW65A	37kW75A	45kW85A
		500~550V	22kW32A	30kW43A	33kW60A	45kW64A	45kW75A
		690V	22kW23A	30kW28A	33kW35A	37kW42A	45kW45A
Life time (unit:10,000 time)		Electrical	200	200	200	200	200
		Mechanical	1500	1000	1000	1000	1000
Auxiliary Contact		Standard	2NO+2NC	2NO+2NC	2NO+2NC	2NO+2NC	2NO+2NC

YCGMC AC Contactor

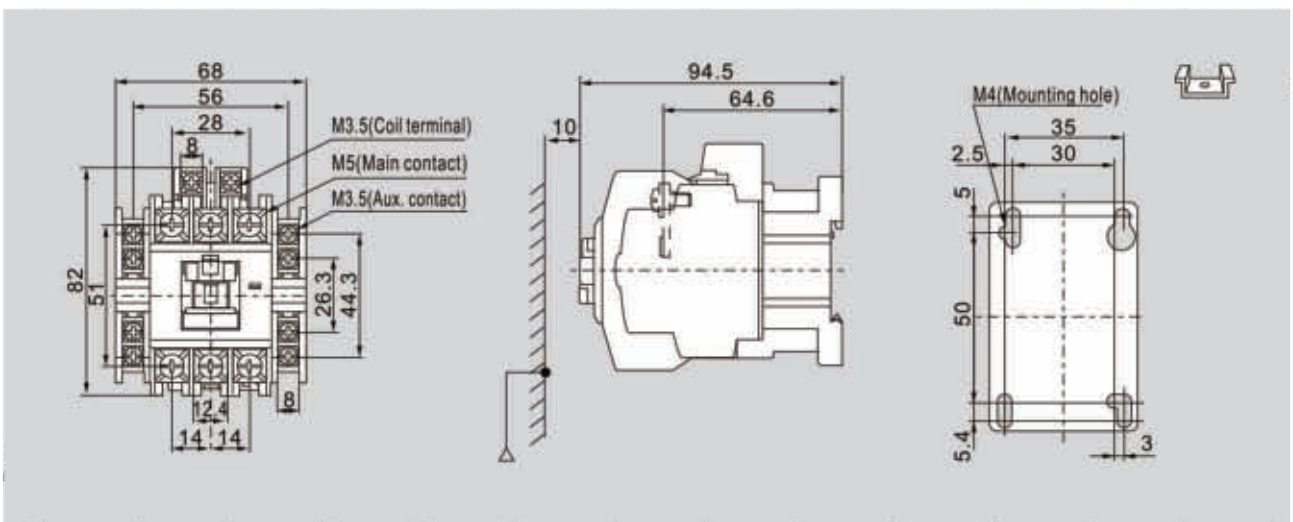
3. Overall and mounting dimensions(mm)

YCGMC-9,12,18,22

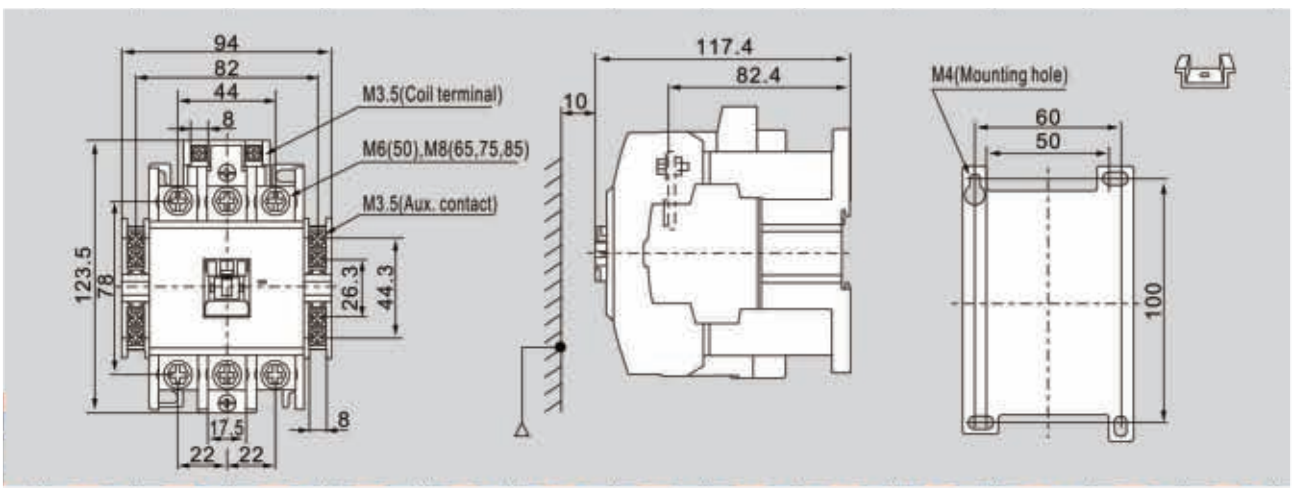


*1: Optional auxiliary contact unit (side mount type)

YCGMC-32,40



YCGMC-50,65,75,85



SVC Single-Phase Automatic Voltage Stabilizer

1. General

It adopts linear integrated circuit to form the control system, drive the contact voltage regulator to regulate automatically by controlling the servo motor, it is provided with delay, over-voltage, under-voltage and over-current protection function which ensure the voltage stabilizer can supply safely; It has the advantage of high efficiency, same input and output voltage waveform, stable output voltage, work continuously and so on.

Excellent output voltage waveform、stable regulating process、no lost electricity phenomenon; High accuracy of output voltage, generally it is fixed in 200±3% when leave the factory, wide input voltage range、strong load adaptability; with satisfiable load property. It has(under-voltage), over-voltage and over-current protection function; It can cut off the power supply automatically to ensure the safety of the consumer when the output voltage is over-high or the input is over-current.

SVC Single–Phase Automatic Voltage Stabilizer

It is available in the electric equipment and facilities in housing, factory, school, shop, office, precision instrument for scientific experiment. As well as office equipment, test instrument, communication system, industrial equipment, armarium, domestic electric appliance and so on.

2. Specifications

Item \ Type		SVC500VA~3000VA	SVC5000VA~30000VA
Input voltage range		150V~250V	160V~250V
Output voltage	Regulation accuracy	220±3%, 110±4%	220±3%
	Under-voltage protection	184V±4V (set according to user's requirement, generally not set)	
	Over-voltage protection	246V±4V	
Efficency		>90%	
Temperature-rise		≤80K	
Regulating speed		<1s(when input voltage varies 10%)	
Frequency		50Hz/60Hz	
Ambient temperature、Relative humidity		-5℃~+40℃ less than 90%	
Waveform distortion		No additional distortion	

3. Overall and mounting dimensions(mm)

Type	Specification & Capacity VA	Overall size (W×D×L) mm	QTY.(pcs)	Package size/set (W×D×L) mm	Gross weight kgs	Net weight kgs
Single-phase movable type SVC	SVC-500	195×160×140	4	420×240×350	20	18
	SVC-1000	205×200×160	4	510×280×390	22.5	21
	SVC-1500	205×200×160	4	510×280×390	27	25.5
	SVC-2000	240×285×200	1	375×310×270	11	10.5
	SVC-3000	240×300×235	1	385×315×305	13.5	12.5
	SVC-5000	240×475×205	1	550×315×270	23	22
	SVC-7500	295×475×240	1	555×370×305	29	28
	SVC-10000	295×475×240	1	555×370×305	33	32
Single-phase cubic type SVC	SVC-5000	310×280×450	1	430×390×560	29	25
	SVC-7500	310×280×450	1	430×390×560	38	33
	SVC-10000	310×280×530	1	430×390×610	42	37
	SVC-15000	320×420×620	1	540×510×790	58	54
	SVC-20000	320×420×620	1	540×510×790	61	57
	SVC-30000	380×420×740	1	530×480×850	66	60

SVC Three-phase High Accuracy Automatic AC Voltage Stabilizer

1. General

This product is constructed by connecting the three pieces of high accuracy full-automatic AC voltage stabilizers with Y connection method, with the advantage of: wide input voltage range, high efficiency, with over(under)voltage, over-current protection function, high regulating accurancy, short adjusting time, same input and output voltage waveform, small volume,

It is available in the electric equipment and facilities in housing, factory, school, shop, office, precision instrument for scientific experiment, can long hours circulate.

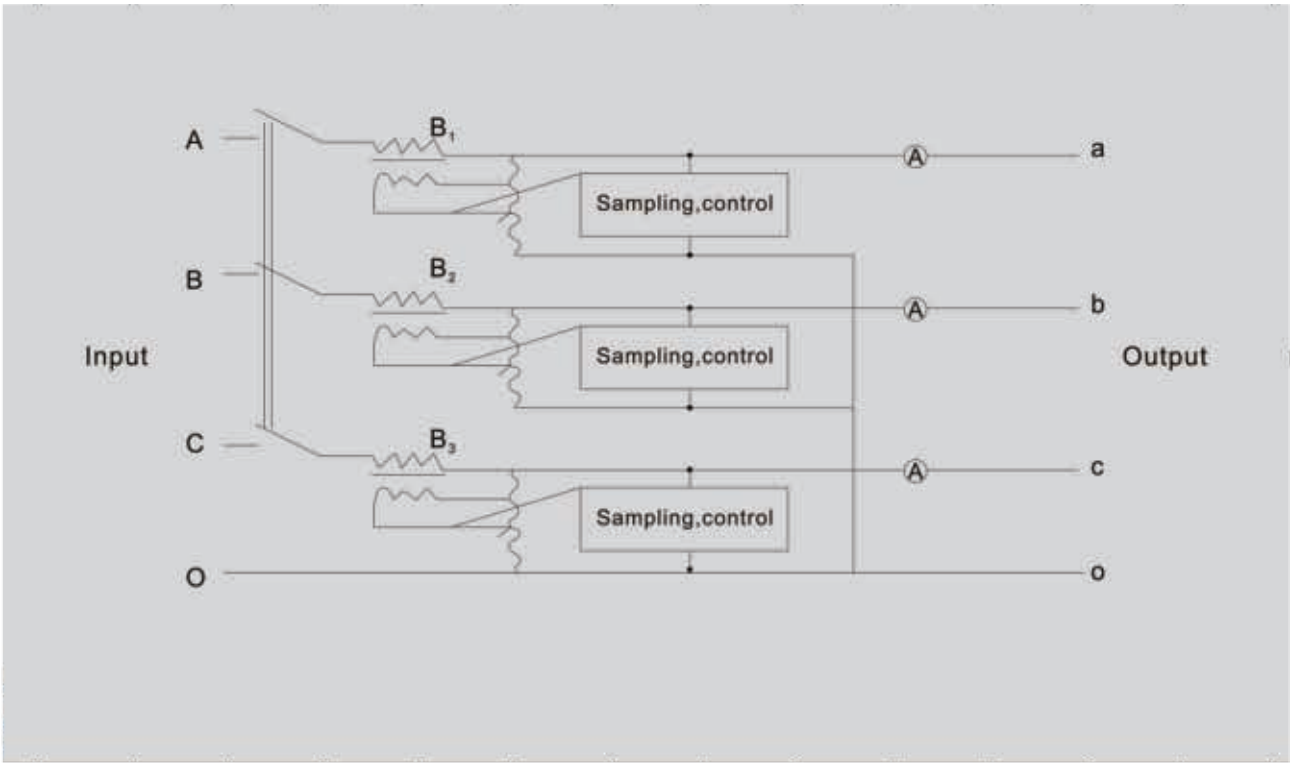
2. Specifications

Type	1.5kVA, 3kVA, 4.5kVA, 6kVA, 9kVA, 15kVA, 20kVA, 30kVA, 45kVA, 50kVA, 60kVA
Input voltage	280V~430V
Output voltage	380V±3%
Frequency	50Hz/60Hz
Response time	<1s(When input voltage varies 10%)
Ambient temperature	-5℃~+40℃
Temperature-rise	≤80K
Relative humidity	less than 90%
Waveform distortion	No additional distortion
Efficiency	>90%
Withstand voltage	1500V/1min

SVC Three-phase High Accuracy Automatic AC Voltage Stabilizer

3. Working Principle

Three-phase voltage stabilizer SVC-20K without B1.B2.B3



4. Overall and packing dimensions(mm)

Type	Specification & Capacity kVA	Overall size (W×D×L) mm	Net weight kg	Package size/set (W×D×L) mm	Gross weight kg
Three-phase movable type SVC	SVC-1.5	480×300×180	16	560×385×235	17.5
	SVC-3	480×300×180	18.5	560×385×235	20
	SVC-4.5	480×300×180	20.5	560×385×235	22
Three-phase cubic type SVC	SVC-6	300×280×670	32	430×390×770	38
	SVC-9	300×320×760	42	430×435×860	50
	SVC-15	410×320×830	60	540×480×930	65
	SVC-20	440×425×870	76	640×540×1090	81
	SVC-30	510×425×980	117	640×540×1090	132
	SVC-40	840×500×1230	220	980×630×1430	240
	SVC-50	840×500×1230	235	980×630×1430	255
	SVC-60	840×500×1230	248	980×630×1430	268

Note:property of this product is similar with the SVC type product.

SVC–H Outdoor Waterproof and Anti–freeze Voltage Stabilizer

1. General

SVC-H series single/three-phase high precision full automatic AC voltage stabilizer is a new type outdoor purposed product improved on the basis of SVC, it adopts high quality electronic elements and linear integrated circuit that has reliable performance and high (low) temperature resistant character, it employs control type servo motor driven and contact type auto-coupling voltage regulator. When the mains voltage is unstable or the load changes, the automatic sampling control circuit will send out signal to drive the servo motor and regulate the position of carbon brush of auto-coupling voltage regulator, and adjust the output voltage to the rated value and lead it into a stable state finally.

SVC-H voltage regulator has inner and outer two layers of box body, the outer box is made of waterproof and corrosion resistant high quality stainless steel. The products can be installed on cement floor outdoors no matter it is inclement weather or severe heat environment, according to the seasonal change, there are two operational environment for selecting, that is low temperature (-40℃) and high temperature (+50℃). The products are featured with undistorted waveform, reliable performance, long-term operation, etc, the output has protection functions of over-voltage, under-voltage and time delay. This series of voltage stabilizer possesses elegant appearance, it can be widely applied to office equipment, test equipment, lighting systems, communication systems, medical facilities, industrial automation devices, audio devices and any outdoor installed power utilization locations, it really is an ideal stabilized voltage power supply for guaranteeing normal operation of your power consumers.

2. Specifications

Input voltage	Single-phase 150V—250V Three-phase 260V—430V	Insulation resistance	＞2MΩ
Output voltage	Three-phase 380V	Relative humidity	＜95%
Voltage stabilized precision	220V±3%、380V±3%	Temperature rise	＜60K
Frequency	50Hz/60Hz	Waveform distortion	No additional waveform distortion
Response time	＜1s (when input voltage changes for 10%)	Load power factor	0.8
Efficiency	＞90%	Withstand voltage	1500V/1min
Ambient temperature	-40℃ —+50℃	Waterproof class of outer box	IP54

SBW High Power Compensation Single, Three Phase Voltage Stabilizer

1. General

This product is designed and developed with the international advanced compersation tech nology. It can keep the output voltage in steady state automatic ally when the network voltage fluctuates or the load current varies, which can ensure the consumer run smoothly. It has the advantage of large capacity, high efficiency, no waveform distortion, simple operation and maintenance, reliable running, full-capacity output under tower input voltage if compared with other voltage stabilizer. It is provided with over-voltage, over-current, phase sequence and so on protection function.

It is suitable for electric supply in small-sized plant, workshop and department in middle, large-sized mining enterprise, it can be widely used in the precision machine tool, precision instrument, test device, elevator, imported electromechanical device, production flow-lime in the mining enterprise, oil field, railway, building site, school, hospital, hotel, scientific research department and so on, it is also suitable for the user in the LV electric network end with low power voltage and big wave range.

2. Specifications

Item \ Type	SBW30kVA~1000kVA	
Input voltage range	Single-phase	Three-phase
Input voltage range	160V~250V	304V~456V
Output voltage	220V±(1-5%) settable	380V±(1-5%) settable
Regulation accuracy	±(1-5%) settable	
Insulation resistance	≥2MΩ	
Withstand voltage	2000V/1min no disruption or flashes phenomenon	
Frequency	50Hz/60Hz	
Response time	≤0.5s	
Efficiency	≥98%	
Waveform aberration	<1%	
Ambient temperature	-5℃~+40℃	
Relative humidity	<90%	

TSD Hanging-style High Accuracy AC Voltage Stabilizer

1. General

This series product is developed on the base of TND series high accuracy full-automatic AC voltage stabilizer; It forms the control system with linear integrated circuit, and drive the contact voltage regulator to start regulating by controlling the servo motor, it is provided with delay, over-voltage, under-voltage, over-current and so on protection function to ensure the safety of the power supply; It has the advantage of high efficiency, no waveform distortion, stable output voltage, less electric consumption and can work continuously.

a. Excellent quality of output voltage, no transient electricity lost phenomenon when the electricity supply is not interrupted, which ensure the domestic computer and the electric appliance with memory function can work safely.

b. wide input voltage range, strong load adaptability, the 200V and 110V can be regulated output at same time, which is convenient for these families with 110V imported electric appliance.

c. With the over-current protection when input, and the under-voltage, over-voltage protection when output, it can work normally no matter it is attended or not.

2. Specifications

Item \ Type	TSD-500VA	TSD-3000VA	TSD-5000VA	TSD-7000VA	TSD-10000VA
Max.rated output current	20A	12A	20A	28A	40A
Input voltage range	160V~250V				
Output voltage	220V±3%				
Output over-voltage protection value	246±4V				
Output under-voltage protection value	184V±4V				
Output voltage delay time	5±2min				
Frequency	50Hz/60Hz				
Response time	<1s(when input voltage varies 10%)				
Temperature-rise	<60K(under full-load condition)				
Ambient temp & relative humidity	-5℃~+40℃ less then 90%				
Efficiency	>90%				
Wave form distortion	No additional distortion				
Withstand voltage	1500V/1min				

JJW Precision Purified AC Voltage Stabilizer

1. General

Adopted advanced energy distributing technology, the main circuit is constructed by paralleling the sine energy distributor and the high power filter. When the output voltage Uo is changed because of the undulation of the supply voltage or the load, it control the SCR elements angle through sampling circuit, comparer and trigger unit to change the current which lead to the variety of the compensating voltage △U and the phase, and reach to the target of stable output voltage. It has excellent regulation and anti-interference function with digital display; the regulation accuracy reaches to ±1% and the response time <0.1s, it can restrain the peak interference of electric network effectively, efficiency of this machine>90%.

a. Wide regulation range: single-phase 185V~255V、three-phase 320V~440V;
b. High regulation accuracy: <±1%;
c. Strong anti-interference ability: can restrain various noises and peak voltage in the electric network;
d. Short response time: <0.1s;
e. High efficiency: >90%;
f. Test functions of the output and input voltage are clear and visual.

2. Specifications

Item \ Output power	JJW-1kVA~20kVA(single-phase)	JJW-3kVA~30kVA(Three-phase)
Input voltage range	185V~255V	320V~440V
Output voltage	220V±1%	380V±1%
Regulation accuracy	<±1%(include load effect)	
Output voltage distortion	≤5%	
Response time	<0.1s	
Overall unit efficiency	>90%	
Peak interference restraint	Input 1000V, 10μspeak pulse, output residual voltage is less than <40V	
Load power factor	0.8	
V/F noise	<50dB	
Output over-voltage Protection value	246V±4V(per phase)	
Work environment	Temperature-5℃~+40℃ humidity <90%	
Work mode	Work successively under natural wind cooling conditions	

Note: The three-phase voltage stabilizer is constructed by connecting three pieces of single-phase voltage stabilizers with starlike connection method, and adopts three-phase four-wire system.

TDGC2、TDGC2J、TSGC2、TSGC2J Voltage Regulator

1. General

This product is designed and developed with the international advanced compersation technology. It can keep the output voltage steady state automatically when the network voltage fluctuated or the load current varied, which can ensure the consumer run smoothly. It has the advantage of large capacity、high efficiency, no waveform distortion, simple operation and maintenance, reliable running, full-capacity output under tower input voltage if compared with other voltage stabilizer. It is provided with over-voltage, over-current, phase sequence and so on protection function.

It is suitable for electric supply in small-sized plant、workshop and department in middle, large-sized mining enterprise, it can be widely used in the precision machine tool, precision instrument, test device, elevator, imported electromechanical device, production flow-lime in the mining enterprise, oil field, railway, building site, school, hospital, hotel, scientific research department and so on, it is also suitable for the user in the LV electric network end with low power voltage and big wave range.

2. Type designation

T □ G C □-□ □

- Applicable area(TH-for wet tropical zone, TA-dry tropical zone)
- Rated capacity(kVA)
- Designation No.
- Contact type(“o” type)
- Dry type self cooling
- No. of phase(S-three phases, D-single phase)
- Voltage regulator

TDGC2、TDGC2J、TSGC2、TSGC2J Voltage Regulator

3. Specifications & overall dimensions(mm)

3.1 TDGC2,TSGC2 Series contact voltage regulator

Specification & Capacity	Max output capacity kVA	Rated input voltage V	Rated output voltage V	Max output current A	Overall size (W×D×L) mm	QTY pcs	Package size (W×D×L) mm	Net weight kg	Gross weight kg	Phase
TDGC2-0.2	0.2	220V	0-250V	0.8	105×130×130	12	380×347×350	25	26.5	1
TDGC2-0.5	0.5			2	125×150×130	8	380×347×350	27	28	
TDGC2-1	1.0			4	180×200×210	4	435×255×465	25	26	
TDGC2-2	2.0			8	180×200×210	4	435×255×465	31.5	33	
TDGC2-3	3.0			12	210×230×235	2	490×275×270	21.5	23	
TDGC2-5	5.0			20	240×285×250	1	330×275×290	17.5	18	
TDGC2-10	10.0			40	240×335×400	1	390×295×505	34	40	
TDGC2-15	15.0			60	240×335×560	1	390×295×650	50	58	
TDGC2-20	20.0			80	240×340×590	1	390×295×650	53	60	
TSGC2-1.5	1.5	380V	0-430V	2	125×180×340	1	200×260×400	9.8	12	3
TSGC2-3	3.0			4	180×250×430	1	300×220×510	17	21.5	
TSGC2-6	6.0			8	180×250×460	1	300×220×560	22	27	
TSGC2-9	9.0			12	210×250×590	1	320×260×580	29	35	
TSGC2-15	15.0			20	240×330×560	1	390×295×650	48	56	
TSGC2-20	20.0			26.5	240×330×580	1	390×295×650	53	60	
TSGC2-30	30.0			40	350×420×1060	1	440×450×1170	138	150	

3.2 TDGC2J、TSGC2J Series contact voltage regulator

Specification & Capacity	Max output capacity kVA	Rated input voltage V	Rated output voltage V	Max output current A	Overall size (W×D×L) mm	QTY pcs	Package size (W×D×L) mm	Net weight kg	Gross weight kg	Phase
TDGC2J-0.5	0.5	220V	0-250V	2	130×150×160	8	330×295×455	30	31.5	1
TDGC2J-1	1.0			4	185×200×215	4	430×395×275	26	27.5	
TDGC2J-2	2.0			8	230×240×215	2	460×250×245	18	19.5	
TDGC2J-3	3.0			12	265×270×215	2	490×280×255	26	27	
TDGC2J-5	5.0			20	350×395×260	1	430×430×340	25	29	
TDGC2J-7	7.0			28	350×390×260	1	430×430×340	27	30.5	
TDGC2J-10	10.0			40	350×410×420	1	430×430×500	47.5	51	
TDGC2J-15	15.0			60	350×410×570	1	430×430×690	67	73	
TDGC2J-20	20.0			80	350×410×570	1	430×430×690	80	86	
TDGC2J-30	30.0			120	350×410×1080	1	440×440×1170	138	150	
TSGC2J-1.5	1.5	380V	0-430V	2	130×150×420	1	200×260×510	11	14.5	3
TSGC2J-3	3.0			4	200×185×510	1	210×230×570	19.5	22.5	
TSGC2J-6	6.0			8	230×240×510	1	280×280×570	28	32.5	
TSGC2J-9	9.0			12	265×270×510	1	285×330×590	39	44	
TSGC2J-15	15.0			20	350×395×570	1	440×430×690	66	72	
TSGC2J-20	20.0			27	350×395×570	1	440×430×690	80	86	
TSGC2J-30	30.0			40	350×430×1060	1	440×450×1170	138	150	

Note: 1. TDGC2,TSGC2 series products are same with the TDGC2J、TSGC2J series.
2. The said overall size and weight are for reference only.

JBK Machine Tool Control Transformer

1. General

This series of machine tool control transformer is suitable for circuit of AC 50/60Hz and input voltage lower than 660V.

2. Type designation

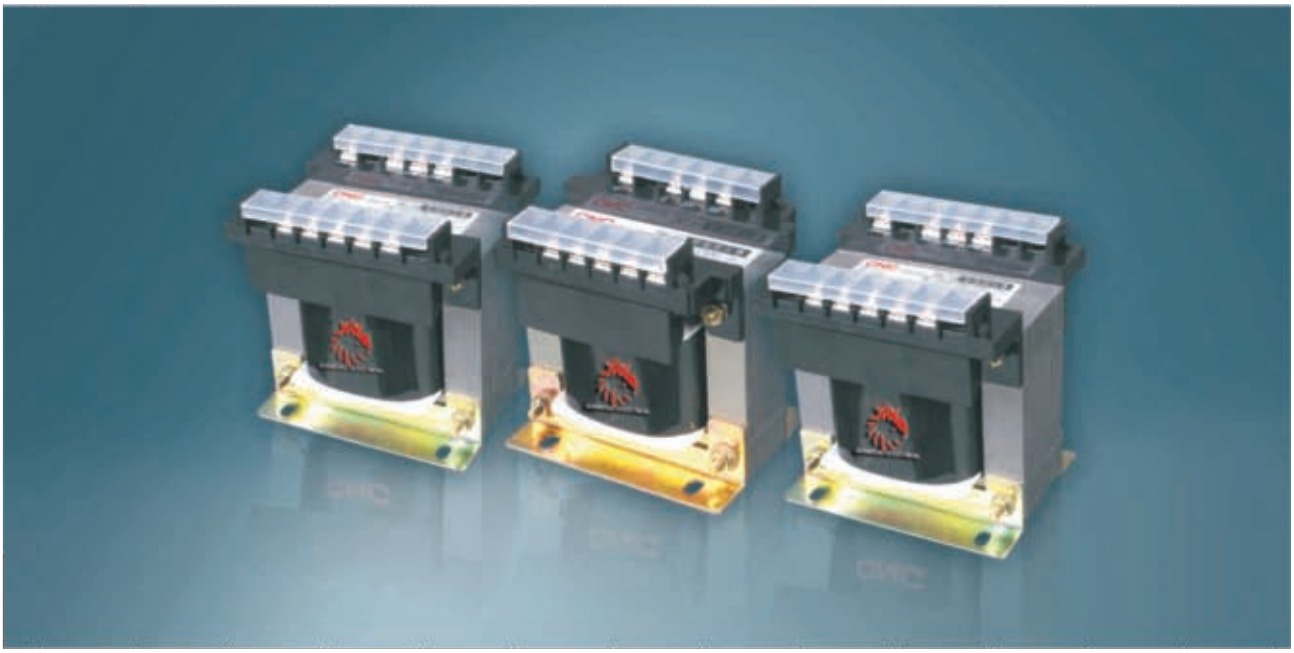
J B K □ - □

- Rated capacity (VA)
- Design No. (1, 2, 3, 4)
- Control
- Transformer
- Machine tool

3. Specifications

Capacity (VA)	Capacity distribution of each winding(VA)			Capacity (VA)	Capacity distribution of each winding(VA)		
	Control	Lighting	Indication		Control	Lighting	Indication
40	40			400	400		
		40			390		10
	37		3		320	80	
					310	80	10
63	63			630	630		
		60	3		610		20
	20	40	3		510	120	
	60		3		490	120	20
100	100			1000	1000		
		100			980		20
		90	10		880	120	
	90		10		860	120	20
	40	60					
	50	40	10				
160	160			1600	1600		
	90	60	10		1580		20
	100	60			1400	200	
	150		10		1380	200	20
250	250			2000	2000		
	240		10		1980		20
	170	80			1800	200	
	160	80	10		1780	200	20

BK2 Control Transformer



1. General

This series control and lighting purposed miniature dry type air automatic mode transformer (hereinafter referred to as transformer) is suitable for circuit of AC 50/60Hz and rated voltage 500V and below, it can be used as control power supply for general electrical appliances such as various machine tools and mechanical equipment, it also can be used as power supply for illuminating lamps.

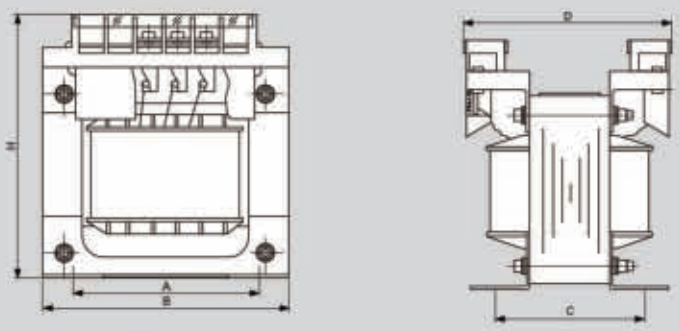
This series of transformer adopts advanced technology and strict design, with practical and latemodel structure, (patent No.: ZL 200620115517.6), with advantages of excellent performance, reliable operation, wide application, etc furthermore, it can work for long term under rated load condition, it really is an ideal voltage transformation power supply.

2. Type designation

B K □ - □

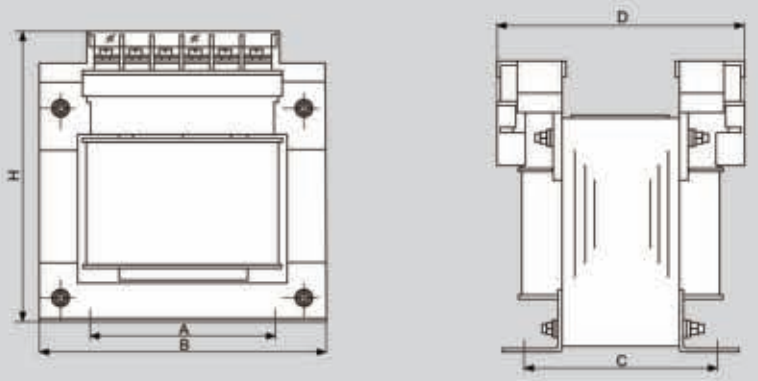
- Rated capacity (VA)
- Design No.
- Control
- Transformer

3. Overall and mounting dimensions(mm)

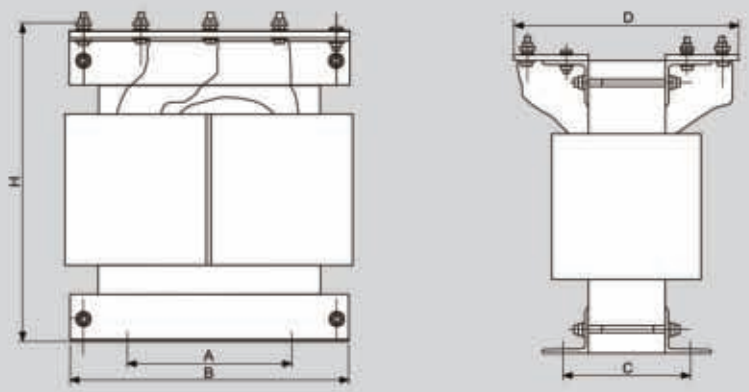


Outline of control transformer of BK2-25~200

BK2 Control Transformer



Outline of control transformer of BK2-250~1000



Outline of control transformer of BK2-1500~5000

Rated capacity (VA)	Primary voltage (V)	Secondary voltage (V)	Outline size (mm)			Mounting size (mm)	
			B max	D max	H max	A	C
25/50	220 380 Or be customized	6.3, 12, 24, 36, 110, 127, 220, 380 Or be customized	80/85	70/71	89/94	56	51
100			103	83	110	76	51
150			103	91	110	76	64
200			103	103	110	76	74
250			121	108	126	90	78
300			121	113	126	90	83
400			151	100	152	110	76
500			151	110	152	110	82
700			151	144	152	110	107
1000			151	170	152	110	107
1500			240	190	240	130	110
2000			240	210	240	130	120
2500			240	250	245	130	150
3000			240	250	245	130	150
4000			320	240	360	200	125
5000			320	240	360	200	125

TDJA/TSJA Series single or three phase series induction voltage regulator

Summary

TDJA/TSJA series single or three phase series induction voltage regulator is similar to the conventional vertic al wound rotor a syn chronous motor.When the relative position of stator is changed, the inductive potential phase (three phase) of stator winding will be changed,also the inductive potential am plitude (single phase),which ensures output voltage in a certain range. When the output voltage is beyond the range of rating ac curacy,directly or in directly take the output signal voltage of voltage re gulator,by comparison with the reference voltage of voltage stabilizing congtroller,affter am plificationg,the servo motor of voltage regulator drives reversible operation so that the output voltage can reach the rated value automatically in a certain accruacy range. widely used in plumbing,sanitary ware,car spares,valves,iron cast lines,etc.

Technical Index

Model	Rated capacity(KVA)	phase number	Frequency (HZ)	Rated input voltage(V)	Rated output voltage(V)	Rated output current(V)	Product size L*W*H(cm)	Net weight(kg)
TDJA-31.5	31.5	单相	50	220	550	63	Φ88x130	420
				380	650	48.5		
TDJA-40	40			220	650	80	Φ88x130	450
				380	650	61.5		
TDJA-50	50			220	550	100	Φ88x130	650
				380	650	78.9		650
TDJA-75	75			220	550	150	Φ133x147	750
				380	650	115.5		
TDJA-100	100			220	550	200	Φ133x147	900
				380	650	154		
TDJA-150	150			220	550	300	Φ105x166	1150
				380	650	231		
TDJA-200	200			220	550	400	Φ127x171	1600
				380	650	308		
TSJA-50	50	三相	50	380	420	68.7	Φ98x130	465
				380	650	44.5		450
TSJA-75	75			380	420	103	Φ98x130	650
				380	650	66.6		
TSJA-80	80			380	420	110	Φ113x147	720
				380	650	71.1		
TSJA-100	100			380	420	137	Φ113x147	750
				380	650	89		720
TSJA-150	150			380	420	206	Φ113x147	850
				380	650	133		
TSJA-200	200			380	500	230.9	Φ120x166	1400
				380	650	178		1300
TSJA-250	250			380	500	289	Φ135x166	1600
				380	650	222		
TSJA-315	315			380	500	363.7	Φ142x171	1800
				380	650	280		
TSJA-400	400			380	500	461.9	Φ138x228	2850
TSJA-500	500			380	500	577	Φ138x228	2950

Voltage pressure tester

1、Describe

HRYDT series electrical safety pressure test apparatus is designed for low ark production ,motor repair, power electronics industry, insulating mat erial production units, current, voltage transformer testing withstand test and the design and manufacture.

Technical parameters

The input voltage: 220V (0 ~ 200V)

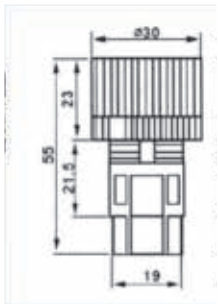
Power frequency: 50Hz

Capacity: 0.5, 1, 2, 3, 5，10，15，20 (kVA)

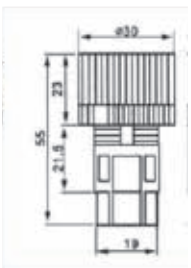
Output Voltages: 0 ~ 15000V (adjustable)

Indicator

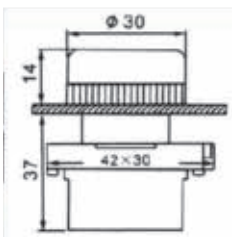
LAY5 EV164
(XB2-EV164)



LAY5 EV443
(XB2-EV443)



LAY5 EV61
(XA2-EV61)



Indicator ϕ 22 IP40

Description	Scheme	Voltage	Color	Type
Direct supply(1)				
For use with incandescent bulb (included) BA9s base fitting	X1 ⊗ X2	130V 50/60Hz	●	LAY5-EV133
			●	LAY5-EV134
			●	LAY5-EV135
			●	LAY5-EV136
For use with incandescent bulb (included) BA9s base fitting	X1 ⊗ X2	≤250V 50/60Hz	○	LAY5-EV161
			●	LAY5-EV163
			●	LAY5-EV164
			●	LAY5-EV165
			●	LAY5-EV166
			Clear	LAY5-EV167
For use with incandescent bulb (included) E10/13 base fitting	X1 ⊗ X2	≤250V 50/60Hz	○	LAY5-EV661
			●	LAY5-EV663
			●	LAY5-EV664
			●	LAY5-EV665
			●	LAY5-EV666
			Clear	LAY5-EV667

(1)Bulb types for use with direct supply:incandescent bulb U≤250V, max.power 3W,max.diameter length 28 mm.

For use with neon bulb (included) BA9s base fitting X1 ⊗ X2	240V~50/60Hz 220/240V bulb 400V~50/60Hz 380/415V bulb	●	LAY5-EV443
		●	LAY5-EV444
		●	LAY5-EV445
		●	LAY5-EV446
		Clear	LAY5-EV447
	230V~50/60Hz 130V bulb	●	LAY5-EV453
		●	LAY5-EV454
		●	LAY5-EV455
		●	LAY5-EV456
		Clear	LAY5-EV457

Supply direct through resistor

For use with incandescent bulb (included) BA9s base fitting	X1 ⊗ X2		○	LAY5-EV171
			●	LAY5-EV173
			●	LAY5-EV174
			●	LAY5-EV175
			●	LAY5-EV176
			Clear	LAY5-EV177
BA9s 6.3V/24V bulb supplied	Via integral transformer 1.2VA	220V~240V/6.3V 50/60Hz	●	LAY5-EV1853
			●	LAY5-EV1854
			●	LAY5-EV1855
			●	LAY5-EV1856
BA9s 6.3V/24V bulb supplied	Via integral transformer 1.2VA	380V~440V/6.3V 50/60Hz	●	LAY5-EV1873
			●	LAY5-EV1874
			●	LAY5-EV1875
			●	LAY5-EV1876
Direct BA9s	X1 ⊗ X2	≤380V	○	LAY5-EV61
			●	LAY5-EV63
			●	LAY5-EV64
			●	LAY5-EV65
			●	LAY5-EV66
BA9s,130V. Direct through resistor BA9s,130V bulb supplied	X1 ⊗ X2	220V 250V	○	LAY5-EV71
			●	LAY5-EV73
			●	LAY5-EV74
			●	LAY5-EV75
			●	LAY5-EV76

Pushbutton Switch

SB7-EA31
(XB7-EA31)

SB7-EA35
(XB7-EA35)

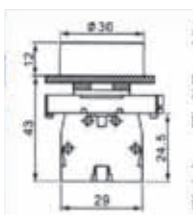
LAY5-EA42
(XB2-EA42)

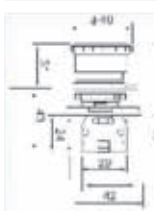
LAY5-EC42
(XB2-EC42)

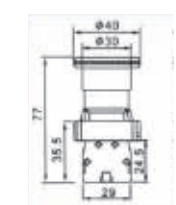
LAY5-ES542
(XB2-ES542)

LAY5-EA3311
(XB2-EA3311)

LAY5-EA4322
(XB2-EA4322)







Pushbuttons,spring return

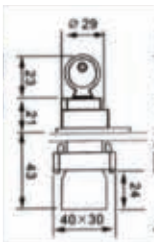
Description	Contact	Scheme	Color	Type
Pushbutton spring return	N/O	13 14	●	SB7-EA21
			●	SB7-EA31
	N/C	21 22	●	SB7-EA42
	N/C+N/O	13 21 14 22	●	SB7-EA25
			●	SB7-EA35
			●	SB7-EA45
Pushbutton latching	N/O	13 14	●	LAY5-EH121
			●	LAY5-EH131
	N/C+N/O	14 12 11 11	●	LAY5-EH125
			●	LAY5-EH135
Flush	N/O	13 14	●	LAY5-EA21
			●	LAY5-EA31
			●	LAY5-EA51
			●	LAY5-EA61
	N/C	21 22	●	LAY5-EA42
Mushroom head ϕ40mm	N/O	13 14	●	LAY5-EC21
			●	LAY5-EC31
			●	LAY5-EC51
			●	LAY5-EC61
	N/C	21 22	●	LAY5-EC42
Mushroom head	N/C	21 22	ϕ30	LAY5-ES442
			ϕ40	LAY5-ES542
			ϕ60	LAY5-ES642
Flush	N/O	13 14	●	LAY5-EA3311
			○ ↑ →	LAY5-EA3341
			● ⇩ ⇦	LAY5-EA3351
	N/C	21 22	●	LAY5-EA4322
			●	LAY5-EA4342

Pushbutton Switch

LAY5-ED21
(XA2-ED21)

LAY5-EJ33
(XA2-EJ33)

LAY5-EG33
(XA2-EG33)



LAY5-BE101
(ZB2-BE101)

LAY5-EZ101
(ZA2-EZ101)

LAY5-BZ101
(ZB2-BZ101)

Selector switches

Description	Contact	Scheme	Operator	Type
2 Position stay put	N / C		Standard handle	LAY5 - ED21
			Long handle	LAY5 - EJ21
	N/O+N/C		Standard handle	LAY5 - ED25
			Long handle	LAY5 - EJ25
2 Position 1 spring return from right to left	N / O		Standard handle	LAY5 - ED41
			Long handle	LAY5 - EJ41
	N/O+N/C		Standard handle	LAY5 - ED45
			Long handle	LAY5 - EJ45
3 Position stay put	N/O+N/O		Standard handle	LAY5 - ED33
			Long handle	LAY5 - EJ33
3 Position 2 spring return to centre	N/O+N/O		Standard handle	LAY5 - ED53
			Long handle	LAY5 - EJ53

Key switches(key n° 455)

Description	Contact	Scheme	Key removal	Type
2 Position stay put	N / O		LH position	LAY5 - EG21
			LH and RH position	LAY5 - EG41
	N/C+N/O		LH position	LAY5 - EG25
			LH and RH position	LAY5 - EG45
2 Position 1 spring return from right to left	N / O		LH position	LAY5 - EG61
	N/O+N/O		LH position	LAY5 - EG65
3 Position stay put	N/O+N/O		Centre position	LAY5 - EG33
			LH and RH position	LAY5 - EG53
			All 3 position	LAY5 - EG03
3 Position 2 Spring return to centre position	N/O+N/O		Centre position	LAY5 - EG73

Additional/replacement contact block,screw and captive cable

For making up body assembles with 3,4,5 or maximum of 6 contact blocks or replacing 1st or 2nd contact	N / O	Clamp connection		LAY5 - BE101
	N / C			LAY5 - BE102
	N / O			LAY5 - EZ/BZ101
	N / C			LAY5 - EZ/BZ102
	N/O + N/O			LAY5 - EZ/BZ103
	N/C + N/C			LAY5 - EZ/BZ104
	N/O + N/C			LAY5 - EZ/BZ105

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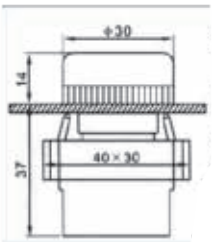
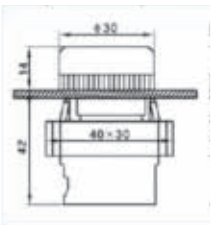
52

Pushbutton Switch

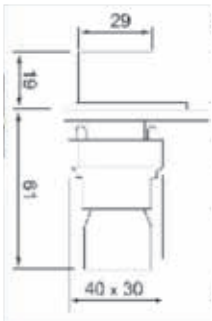
LAY5-BV63
(XB2-BV63)



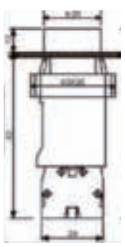
LAY5-BV74
(XB2-BV74)



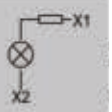
LAY5-BW3361
(XB2-BW3361)



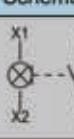
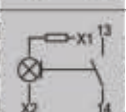
LAY5-BW3551
(XB2-BW3551)



Circular head, screw and captive cable clamp connections
Complete units
Signalling units ϕ22

Description	Scheme	Voltage	Color	Type
Direct bulb included		⩽380V	●	LAY5 - BV63
			●	LAY5 - BV64
			●	LAY5 - BV65
Via integral resistor BA9s, 130V bulb supplied		220V 250V	●	LAY5 - BV73
			●	LAY5 - BV74
			●	LAY5 - BV75
Via integral transformer 1.2VA BA9s, 6V bulb supplied		110V/50Hz	●	LAY5 - BV33
		110-120V/60Hz	●	LAY5 - BV34
			●	LAY5 - BV35
		220V/50Hz	●	LAY5 - BV43
			●	LAY5 - BV44
			●	LAY5 - BV45
		240V/50Hz	●	LAY5 - BV943
			●	LAY5 - BV944
			●	LAY5 - BV945
		380V/50Hz	●	LAY5 - BV53
			●	LAY5 - BV54
			●	LAY5 - BV55
		415V/50Hz	●	LAY5 - BV933
			●	LAY5 - BV934
			●	LAY5 - BV935

Illuminated flush pushbuttons with 1N/O contact

Description	Scheme	Voltage	Color	Type
Direct bulb supplied		⩽380V	●	LAY5 - BW3361
			●	LAY5 - BW3461
			●	LAY5 - BW3561
Direct through resistor BA9s, 130V bulb supplied		220V 250V	●	LAY5 - BW3371
			●	LAY5 - BW3471
			●	LAY5 - BW3571
Via integral transformer 1.2VA BA9s, 6V bulb supplied		110V/50Hz	●	LAY5 - BW3331
		110-120V/60Hz	●	LAY5 - BW3431
			●	LAY5 - BW3531
		220V/50Hz	●	LAY5 - BW3341
			●	LAY5 - BW3441
			●	LAY5 - BW3541
		240V/50Hz	●	LAY5 - BW33941
			●	LAY5 - BW34941
			●	LAY5 - BW35941
		380V/50Hz	●	LAY5 - BW3351
			●	LAY5 - BW3451
			●	LAY5 - BW3551
		415V/50Hz	●	LAY5 - BW33931
			●	XB2 - BW34931
			●	XB2 - BW35931

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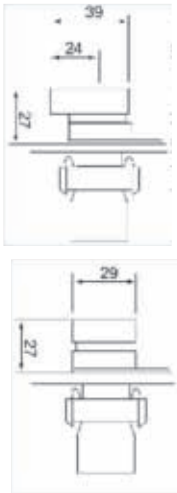
Pushbutton Switch



Circular head, with chromium plated metal bezel
Complete units with screw and captive cable clamp connections

Selector switches

Description	Contact	Scheme	Operator	Type
2 Position stay put	N / O	1 11 13 14	Standard handle	LAY5- BD21
			Long handle	LAY5- BJ21
	N/C+N/O	1 11 21 13 22 14	Standard handle	LAY5- BD25
			Long handle	LAY5- BJ25
2 Position 1 spring return from right to left	N / O	1 11 13 14	Standard handle	LAY5- BD41
			Long handle	LAY5- BJ41
	N/C+N/O	1 11 21 13 22 14	Standard handle	LAY5- BD45
			Long handle	LAY5- BJ45
3 Position stay put	N/O+N/O	10 11 13 23 11 14 24 1	Standard handle	LAY5- BD33
			Long handle	LAY5- BJ33
3 Position 2 spring return to centre	N/O+N/O	10 11 13 23 11 14 24 1	Standard handle	LAY5- BD53
			Long handle	LAY5- BJ53

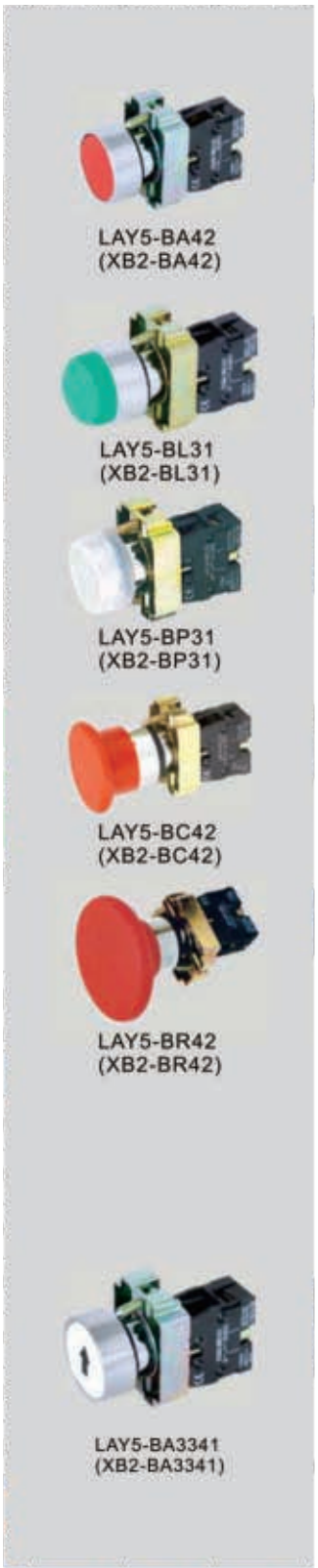
Key switches(key n° 445)

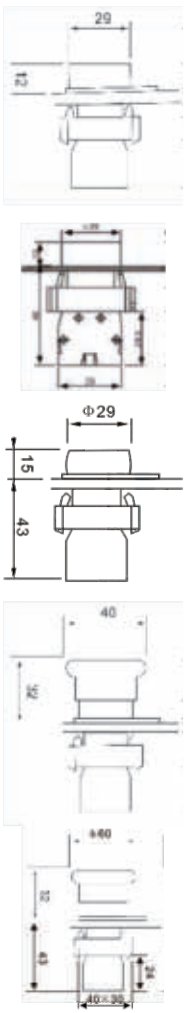
Description	Contact	Scheme	Key removal	Type
2 Position stay put	N / O	1 11 13 14	LH Position	LAY5- BG21
			LH and RH Position	LAY5- BG41
	N/C+N/O	1 11 21 13 22 14	LH Position	LAY5- BG25
			LH and RH Position	LAY5- BG45
2 Position 1 spring return from right to left	N / O	1 11 13 14	LH Position	LAY5- BG61
	N/C+N/O	1 11 21 13 22 14	LH Position	LAY5- BG65
3 Position stay put	N/O+N/O	10 11 13 23 11 14 24 1	Centre Position	LAY5- BG33
			LH and RH Position	LAY5- BG53
			All 3 Position	LAY5- BG03

Selector switches with pilot light

Description	Contact	Scheme	Type
2 Position stay put	N/C+N/O	1 11 21 13 22 14	LAY5- BK2365 LAY5- BK2465 LAY5 - BK2565 LAY5- BK2665 LAY5- BK2765
	N/C+N/O	10 11 21 23 11 22 24 1	LAY5- BK3365 LAY5- BK3465 LAY5- BK3565 LAY5- BK3665 LAY5- BK3765
	N/C+N/O	10 11 21 23 11 22 24 1	LAY5- BK5365 LAY5- BK5465 LAY5- BK5565 LAY5- BK5665 LAY5- BK5765

Pushbutton Switch





Circular head, with chromium plated metal bezel complete units with screw and captive cable clamp connections

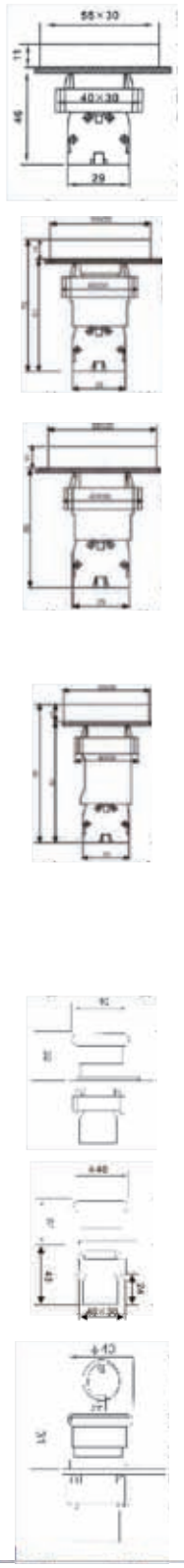
Pushbuttons, spring return

Description	Contact	Scheme	Color	Type
Flush	N/O	13 14	○	LAY5 - BA11
			●	LAY5 - BA21
			●	LAY5 - BA31
			●	LAY5 - BA51
			●	LAY5 - BA61
	N/C	21 22	●	LAY5 - BA42
Protecting	N/O	13 14	●	LAY5 - BL21
			●	LAY5 - BL31
			●	LAY5 - BL51
			●	LAY5 - BL61
	N/C	21 22	●	LAY5 - BL42
Booted	N/O	13 14	○	LAY5 - BP11
			●	LAY5 - BP21
			●	LAY5 - BP31
			●	LAY5 - BP51
			●	LAY5 - BP61
	N/C	21 22	●	LAY5 - BP42
Mushroom head Φ40mm	N/O	13 14	●	LAY5 - BC21
			●	LAY5 - BC31
			●	LAY5 - BC51
			●	LAY5 - BC61
	N/C	21 22	●	LAY5 - BC42
Mushroom head Φ60mm	N/O	13 14	● Φ60	LAY5 - BR21
			● Φ60	LAY5 - BR31
			● Φ60	LAY5 - BR51
			● Φ60	LAY5 - BR61
	N/C	21 22	● Φ60	LAY5 - BR42

Pushbuttons, spring return with function symbols on button

Description	Contact	Scheme	Color	Type
Flush	N/O	13 14	●	LAY5 - BA3311
			○ ↑ or →	LAY5 - BA3341
			● ↓ or ←	LAY5 - BA3351
	N/C	21 22	● o	LAY5 - BA4222
			● stop	LAY5 - BA4342
Protecting	N/C	21 22	● o	LAY5 - BL4322
			● stop	LAY5 - BL4342

Pushbutton Switch



With chromium plated metal bezel complete units with screw and captive cable clamp connections

Double-headed pushbuttons,spring return

Description	Contact	Scheme		Degree of protection	Type
Without pilot light 1 flush green pushbutton 1 protecting red pushbutton	N / O + N/C	13-14 21-22	Unmarked I O	IP40	LAY5 - BL8325
				IP65	LAY5 - BL9325
				IP40	LAY5 - BL8425
				IP65	LAY5 - BL9425
With pilot light 1 flush green pushbutton 1 pilot light with Yellow lens direct supply ≤380V 1 protecting red pushbutton	N / O + N/C	13-14 X1-X2 21-22	Unmarked I O	IP40	LAY5 - BW8365
				IP40	LAY5 - BW8465
1 flush green pushbutton 1 pilot light with Yellow lens 220/250V supply direct through resistor BA 9s,130V buld included 1 protecting red pushbutton	N / O + N/C	13-14 X1-X2 21-22	Unmarked I O	IP40	LAY5 - BW8375
				IP40	LAY5 - BW8475
1 flush green pushbutton 1 pilot light with Yellow lens 1.2VA-220V direct supply via integral transformer BA 9s 6V,bulb included 1 protecting red pushbutton	N / O + N/C	13-14 X1-X2 21-22	Unmarked I O	IP40	LAY5 - BW8345
				IP40	LAY5 - BW8445

Latching mushroom head "emergency stop" pushbutton

Description Color	Contact	Scheme	Type
Push-pull Red			Φ40 LAY5 - BT42
			Φ60 LAY5 - BX42
Turn to release Red	N / C	21-22	Φ30 LAY5 - BS442
			Φ40 LAY5 - BS542
			Φ60 LAY5 - BS642
Key release (key n° 455)Red	N / C	21-22	Φ30 LAY5 - BS742
			Φ40 LAY5 - BS142
			Φ60 LAY5 - BS242

Latching mushroom head pushbutton with "Trigger action"

Turn to release Key release(Key n° 445)Red	N / O + N/C	21-22 13-14	Φ40	LAY5- BS8445
				LAY5- BS9445

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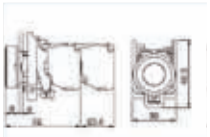
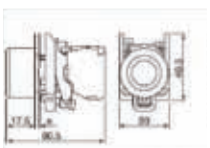
Pushbutton Switch

LAY4-BA42
(XB4-BA42)

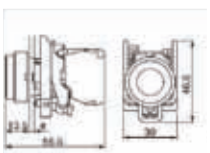
LAY4-BA4322
(XB4-BA4322)



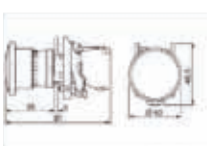
LAY4-BP42
(XB4-BP42)



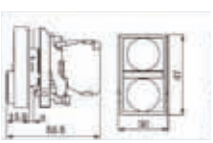
LAY4-BL42
(XB4-BL42)



LAY4-BC42
(XB4-BC42)



LAY4-BL845
(XB4-BL845)



Non-illuminated pushbuttons, momentary (screw clamp terminal connections)

Description	Contact N/O	Contact N/C	Scheme	Color	Type
Flush	1		N/O	● B	LAY4-BA21
	1		N/O	● G	LAY4-BA31
	1		N/O	● Y	LAY4-BA51
	1		N/O	● S	LAY4-BA61
		1	N/C	● R	LAY4-BA42
	1		N/O+N/C	● Y	LAY4-BA55
	2		N/O	○ W	LAY4-BA13
		2	N/O	● B	LAY4-BA24
Flush logo	1		N/O	● G	LAY4-BA3321
	1		N/O	● G	LAY4-BA3361
	1		N/O	① W	LAY4-BA3341
	1		N/C	● B	LAY4-BA3351
		1	N/C	● R	LAY4-BA4322
Flush with clear silica gel (color of pusher unobscured)	1		N/O	● B	LAY4-BP21
	1		N/O	● G	LAY4-BP31
	1		N/O	● Y	LAY4-BP51
	1		N/O	● S	LAY4-BP61
		1	N/C	● R	LAY4-BP42
	1	1	N/O+N/C	● Y	LAY4-BP55
	2		N/O	○ W	LAY4-BP13
		2	N/C+N/C	● B	LAY4-BP24
Extended	1		N/O	● B	LAY4-BL21
	1		N/O	● G	LAY4-BL31
	1		N/O	● Y	LAY4-BL51
	1		N/O	● S	LAY4-BL61
	1	1	N/C	● R	LAY4-BL42
	1	1	N/O+N/C	● Y	LAY4-BL55
		2	N/O	○ W	LAY4-BL13
	2		N/C+ N/C	● B	LAY4-BL24
Mushroom ϕ40mm	1		N/O	● B	LAY4-BC21
	1		N/O	● G	LAY4-BC31
	1		N/C	● R	LAY4-BC42

Two button pushbuttons, momentary(screw clamp terminal connections)

Description	Contact N/O	Contact N/C	Protection class	Color	Type
One flush green push (marked "I")One extended red push (marked "O")	1	1	IP40	■ ■	LAY4-BL845
	1	1	IP66	■ ■	LAY4-BL945

Pushbutton Switch

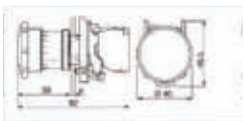
LAY4-BT42
(XB4-BT42)

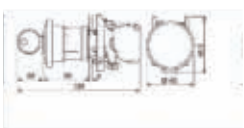
LAY4-BS542
(XB4-BS542)

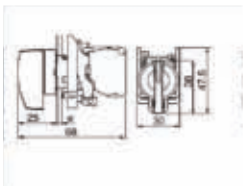
LAY4-BS142
(XB4-BS142)

LAY4-BD25
(XB4-BD25)

LAY4-BJ21
(XB4-BJ21)







Non-illuminated emergency stop mushroom head pushbuttons (Red)

Description	Contact N/O	Contact N/C	Diameter	Type
Push-pull		1	ϕ40	LAY4-BT42
Trigger action push-pull	1	1	ϕ40	LAY4-BT845
Turn to release		1	ϕ40	LAY4-BS542
Trigger action turn to release		1	ϕ40	LAY4-BS8445
Key release (n° 455)		1	ϕ40	LAY4-BS142
Trigger action key release (n° 455)	1	1	ϕ40	LAY4-BS9445

Non-illuminated selector switches (screw clamp terminal connections) standard handle (black)

Description	Contact N/O	Contact N/C	Locality	Type
2positon	1		∨	LAY4-BD21
	1	1	∨	LAY4-BD25
	1		◇	LAY4-BD41
	1	1	◇	LAY4-BD45
3positon	2		∨∨	LAY4-BD33
	2		◇◇	LAY4-BD53

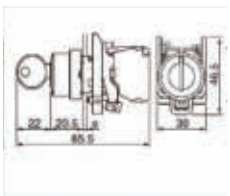
Long handle (black)

Description	Contact N/O	Contact N/C	Locality	Reference
2positon	1		∨	LAY4-BJ21
	1	1	∨	LAY4-BJ25
	1		◇	LAY4-BJ41
	1	1	◇	LAY4-BJ45
3positon	2		∨∨	LAY4-BJ33
	2		◇◇	LAY4-BJ53

Explain: ∨∨ Lock up ◇:1 spring return from night to left ◇◇:2 spring return to centre

Pushbutton Switch

LAY4-BG25
(XB4-BG25)

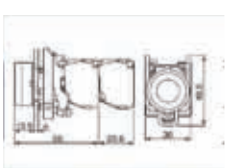


Non-illuminated key switches(scew clamp terminal connections)key lock switches

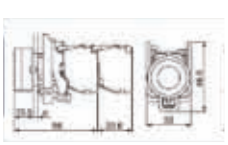
Description	Contact N/O	Contact N/C	Locality	Type
2positon	1			LAY4-BG21
	1	1		LAY4-BG25
	1			LAY4-BG41
	1	1		LAY4-BG45
	1			LAY4-BG61
	1	1		LAY4-BG65
3positon	2			LAY4-BG33
	2			LAY4-BG53
	2			LAY4-BG03

Explain: Lock up :1 spring return from night to left
:Key withdrawal position(s)

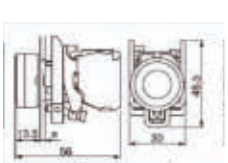
LAY4-BW35B5
(XB4-BW35B5)



LAY4-BW33G5
(XB4-BW33G5)



LAY4-BW36M5
(XB4-BW36M5)

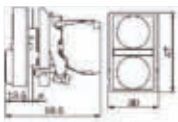


Illuminated pushbuttons, momentary, flush (screw clamp terminal connections)

Description	Contact N/O	Contact N/C	Color	Type
Protected LED 24VAC/VDC	1	1	○ W	LAY4-BW31B5
	1	1	● G	LAY4-BW33B5
	1	1	● R	LAY4-BW34B5
	1	1	● Y	LAY4-BW35B5
	1	1	● S	LAY4-BW36B5
Protected LED 110～120 VAC	1	1	○ W	LAY4-BW31G5
	1	1	● G	LAY4-BW33G5
	1	1	● R	LAY4-BW34G5
	1	1	● Y	LAY4-BW35G5
	1	1	● S	LAY4-BW36G5
Protected LED 110～120 VAC	1	1	○ W	LAY4-BW31M5
	1	1	● G	LAY4-BW33M5
	1	1	● R	LAY4-BW34M5
	1	1	● Y	LAY4-BW35M5
	1		● S	LAY4-BW36M5

Pushbutton Switch

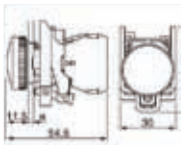
LAY4-BW84B5
(XB4-BW84B5)



Double-headed pushbuttons, spring return(screw clamp terminal connections)

Description	Scheme Power voltage	Contact N/O	Contact N/C	Protection class	Type
With pilot light 1flush green 2pilot light with yellow lens 2extended red	24	1	1	IP40	LAY4-BW84B5
	~48...120	1	1	IP40	LAY4-BW84G5
	~230...240	1	1	IP40	LAY4-BW84M5

LAY4-BV63
(XB4-BV63)

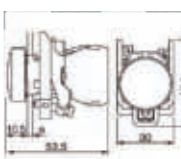


Pilot light for BA9s bulb(screw clamp terminal connections)

Description	Color	Voltage	Scheme	Type
Direct bulb included Ba9s base fitting	W	130v 220/240V 50/60Hz	X1 ⊗ X2	LAY4-BV61
	G			LAY4-BV63
	R			LAY4-BV64
	Y			LAY4-BV65
	S			LAY4-BV66
Through transformer 1.2VA Ba9s, 6V bulb supplied	W	~220~240V 50Hz	X1 ⊗ X2	LAY4-DV41
	G			LAY4-BV43
	R			LAY4-BV44
	Y			LAY4-DV45
	S			LAY4-DV46

LAY4-BVB6
(XB4-BVB6)

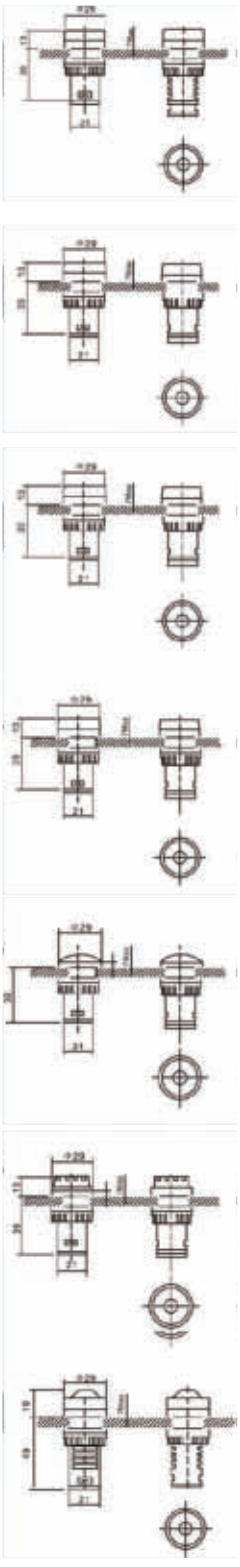
LAY4-BVG4
(XB4-BVG4)



Pilot light with protected LED(screw clamp terminal connections)

Voltage	Color	Type
24VAC/VDC	W	LAY4-BVB1
	G	LAY4-BVB3
	R	LAY4-BVB4
	Y	LAY4-BVB5
	S	LAY4-BVB6
110~130VAC	W	LAY4-BVG1
	G	LAY4-BVG3
	R	LAY4-BVG4
	Y	LAY4-BVG5
	S	LAY4-BVG5
220~240VAC	W	LAY4-BVM1
	G	LAY4-BVM3
	R	LAY4-BVM4
	Y	LAY4-BVM5
	S	LAY4-BVM6

Indicator

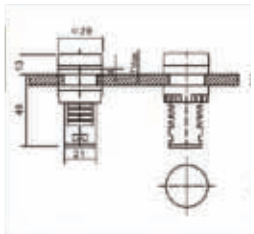


AD22 Indicator

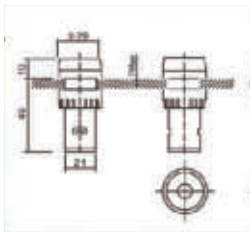
Description	Voltage	Color	Type
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Yellow	AD22-22DS
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Green	AD22-22DS
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Green(PG) ● Blue(PB) ○ White(PW)	AD22-22DS
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ● Blue ○ White	AD22-22BS
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ● Blue ○ White	AD22-22CS
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ● Blue ○ White	AD22-22ES
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 31-AC220V 32-AC380V	● Red ● Green ● Yellow ● Blue ○ White	AD22-22HS

Indicator

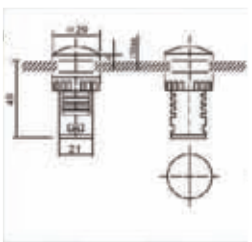
AD22-22D/R



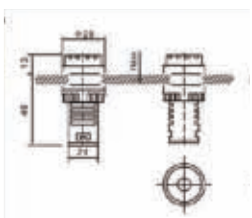
AD22-22B/G



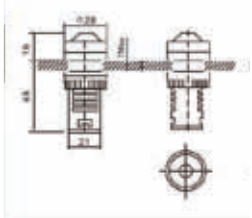
AD22-22C/Y



AD22-22E/R



AD22-22H/G



AD22 Indicator

Description	Voltage	Color	Type
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 28-DC.AC220V 31-AC220V 32-AC380V	Red Green Yellow Blue White	AD22-22D
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 28-DC.AC220V 31-AC220V 32-AC380V	Red Green Yellow Blue White	AD22-22B
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 28-DC.AC220V 31-AC220V 32-AC380V	Red Green Yellow Blue White	AD22-22C
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 28-DC.AC220V 31-AC220V 32-AC380V	Red Green Yellow Blue White	AD22-22E
Protected LED Indicator	21-DC.AC6V 22-DC.AC12V 23-DC.AC24V 24-DC.AC36V 25-DC.AC48V 26-DC.AC110V 27-DC.AC127V 28-DC.AC220V 31-AC220V 32-AC380V	Red Green Yellow Blue White	AD22-22H

Indicator

ϕ7.5 PL-101A

ϕ10 PL-101

ϕ10 XDN1

ϕ10 MDX-11A

ϕ12.5 MDX-14A

ϕ13.5 PL

ϕ10 PL-108-C

ϕ10 PL-108-CB

ϕ15 PL-1604PL-15-2

ϕ15 PL-1602PL-15-4

ϕ22 AD-11-22/25 8GZ

ϕ16 AD16-16C

ϕ16 AD17-16C

ϕ16 AD17-16

ϕ22 ENA-22

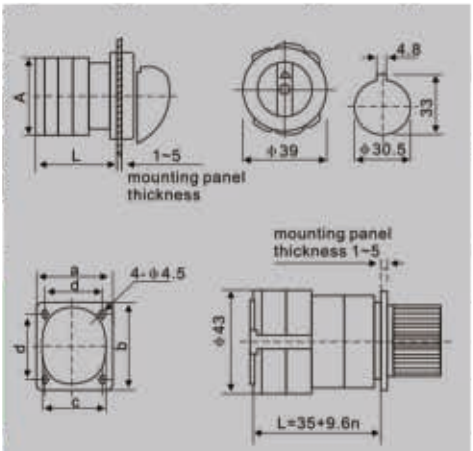
ϕ AD22-30DS/R

ϕ AD22-30DS/G

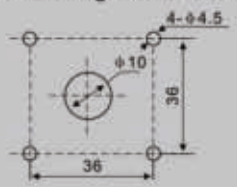
ϕ AD22-30DS/Y

D
63

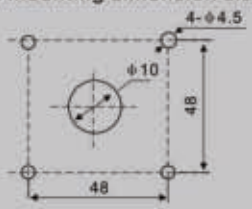
LW28 Universal Changeover Switch



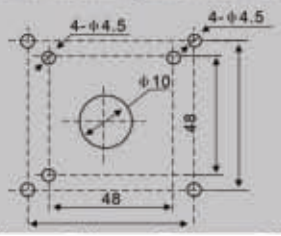
Small panel mounting dimension diagram



Big panel mounting dimension diagram



Oversize panel mounting dimension diagram



1. Specifications

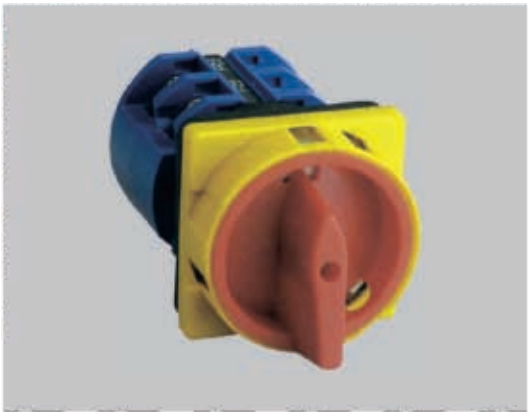
Type	Ith A	Ui V	Ue V	AC-21A Ie A	AC-22A Ie A	AC-23A Ie A	AC-23A P kw	AC-2 Ie A	AC-2 P kw	AC-3 Ie A	AC-3 P kw	AC-4 Ie A	AC-4 P kw	AC-15 Ie A	DC-13
LW28-20	20	660	440	20	20	15	7.5	15	7.5	11	5.5	3.5	1.5	4	
			240											5	
			120												
LW28-25	25		440	25	25	22	11	22	11	15	7.5	6.5	3	5	
			240											8	1.5
			120												
LW28-32	32		440	32		30	15	30	15	22	11	11	5.5	6	
			240											14	
			120												25
LW28-63	63		440	63		57	30	57	30	36	18.5	15	7.5		
			120												55
LW28-125	125		125	125	125	100	45	100	45	50	22	18	12		90
LW28-160	160		160	160	160	115	57	115	57	65	33	25	15		110

Operating cycles	No load	8500	Electrical life (times)
	With load	1500	Mechanical life (times)
	Total	1000	60×10^4

2. Overall and mounting dimensions(mm)

Type	Panel shape	External dimension(mm) A	B	C	L	Mounting dimension(mm) a	b	d1	d2
LW28-20	M1 square	48	48	43	22+9.6n	36	36	φ8.5	φ4.5
	M1 rectanqular	48	60	43	22+9.6n	36	36	φ8.5	φ4.5
	M2 square	64	64	43	25+9.6n	48	48	φ10	φ4.5
	M2 rectanqular	64	80	43	25+9.6n	48	48	φ10	φ4.5
LW28-25	M1 square	48	48	45.2	23+12.8n	36	36	φ8.5	φ4.5
	M1 rectanqular	48	60	45.2	23+12.8n	36	36	φ8.5	φ4.5
	M2 square	64	64	45.2	26.5+12.8n	48	48	φ10	φ4.5
	M2 rectanqular	64	80	45.2	26.5+12.8n	48	48	φ10	φ4.5
LW28-32	M2 square	64	64	58	29.5+12.8n	48	48	φ10	φ4.5
	M2 rectanqular	64	80	58	29.5+12.8n	48	48	φ10	φ4.5
LW28-63	M2 square	64	64	66	29.5+21.5n	48	48	φ10	φ4.5
	M2 rectanqular	64	80	66	29.5+21.5n	48	48	φ10	φ4.5
	M3 square	64	88	66	29.5+21.5n	68	68	φ10	φ4.5
	M3 rectanqular	88	107	66	29.5+21.5n	68	68	φ10	φ4.5
LW28-125	M3 square	88	88	84	35+26.5n	68	68	φ13	φ6
	M3 rectanqular	88	107	84	35+26.5n	68	68	φ13	φ6
LW28-160	M3 square	88	88	88	35+26.5n	68	68	φ13	φ6
	M3 rectanqular	88	107	88	35+26.5n	68	68	φ13	φ6

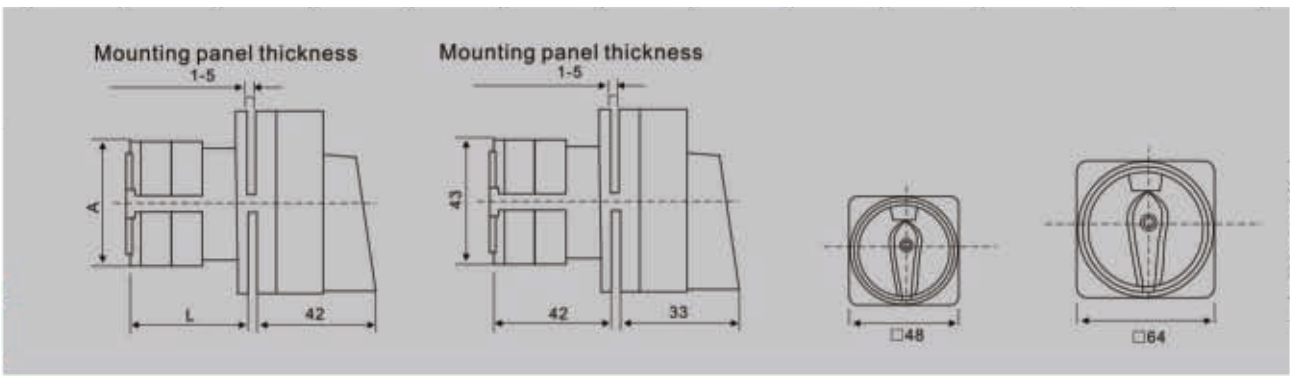
LW28GS Universal Changeover Switch

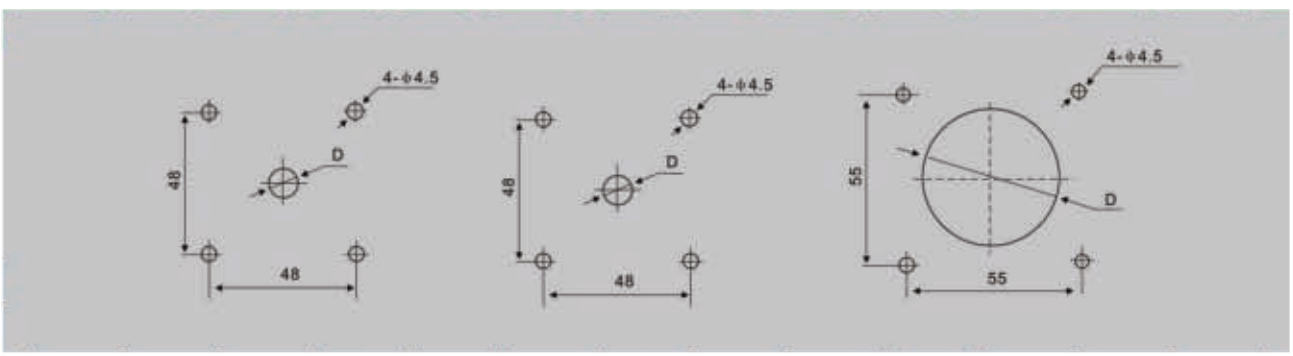


1. Specifications

Type		LW28GS -20	LW28GS -25	LW28GS -32	LW28GS -63
Rated insulating voltage Uil	V	690	690	690	690
Rated operating voltage Ue	V	440	440	440	440
Conventional heating current Ith	A	20	25	32	63
Rated working current Ie					
AC-21A	A	20	25	32	63
AC-22A	A	20	25	32	63
AC-23A	A	15	22	30	57

2. Overall and mounting dimensions(mm)





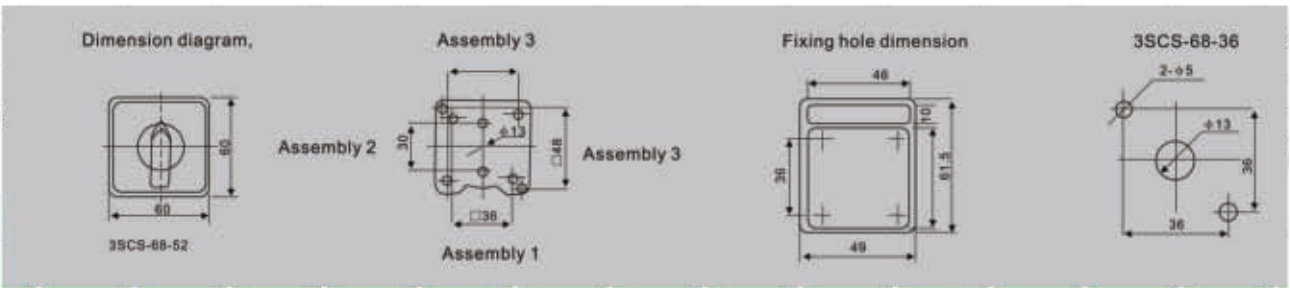
Type	Dimension(mm)		
	A	L	D
LW28GS-20	43	43	φ8.5
LW28GS-25	45.2	51	φ8.5
LW28GS-32	58	55	φ10
LW28GS-63	66	72.5	φ10
LW28GS-125	84	90	φ13
LW28GS-160	88	101	φ13

CS-68 Universal Changeover Switch

1. Specifications

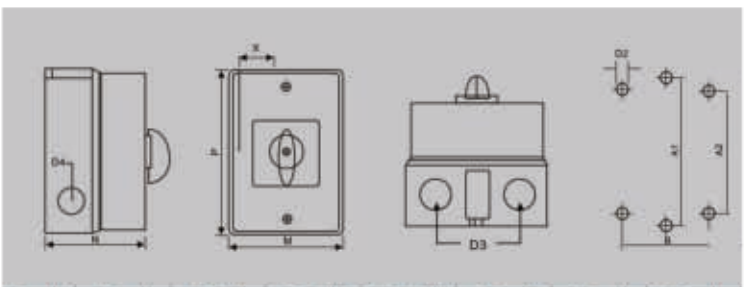
Type	Low voltage, low current (contact seat with white indication)	High voltage, high current (contact seat with blue indication)
Contact capacity	24V 0.1A	600V 15A
Contact impedance	During initial period, below 10Ω	During initial period, below 50Ω
Voltage withstand	220VAC	500VAC
Insulation impedance	Over 100mΩ	60s
life	Mechanical:above 100,000 times	

2. Overall and mounting dimensions(mm)



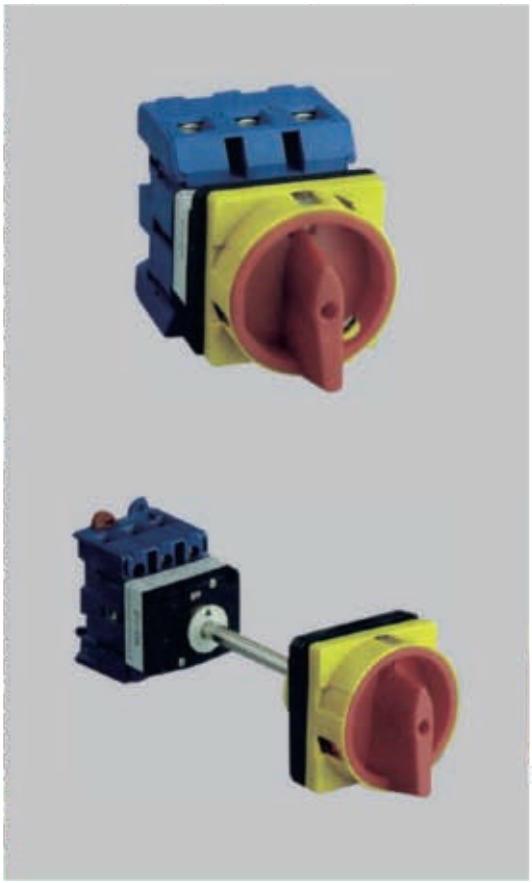
D11 Closed Type Load Switch

1. Overall and mounting dimensions(mm)



Type	Outline dimension(mm)					Installation dimension(mm)			
	D3	D4	M	N	P	A1	A2	B	D2
D11-20/3	23	19	85	80	120	110	-	-	4.1
D11-32/3	23	19	85	80	120	110	-	-	4.1
D11-40/3	29	23	91	91	160	178	-	-	4.1
D11-63/3	29	23	91	91	160	178	-	-	4.1
D11-80/3	37.5	23	100	100	250		124	124	4.1
D11-20/6	29	23	91	91	160	178	-	-	4.1
D11-32/6	29	23	91	91	160	178	-	-	4.1
D11-40/6	37.5	23	100	91	160		124	124	4.1
D11-63/6	37.5	23	100	100	250		124	124	4.1
D11-80/6	50	23	89	83	156	150	150	150	7.5

GLD11 Universal Changeover Switch

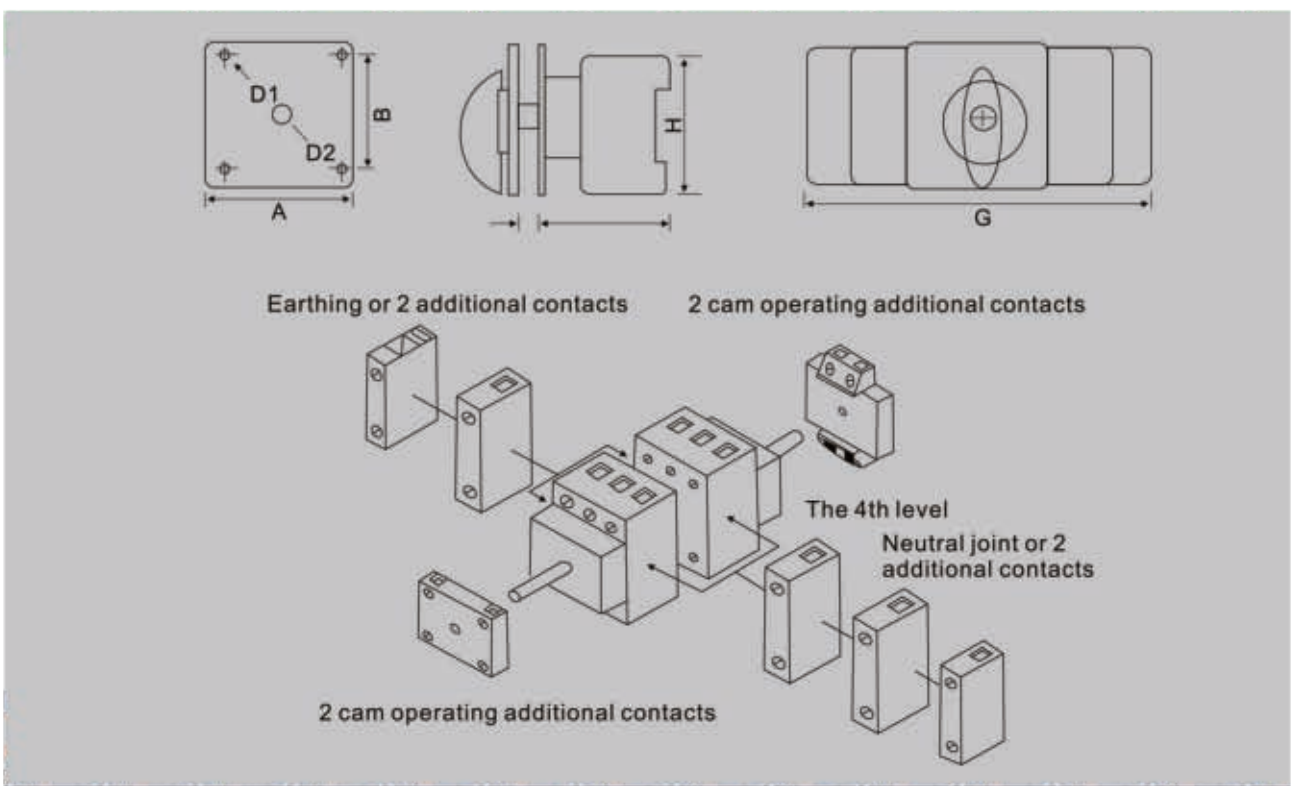


1. Specifications

Control current or power / Application category / Switch type	IEC/BS/VDE rated nominal values					
	Heating current Ith	Resistive load Ac21	Ac3 occasional switchover motor or high inductive load		Ac3 direct on-line starting motor	
			3×220 ~240V	3×380 ~440V	3×220 ~240V	3×380 ~440V
GLD11-25	25A	25A	4KW	7.5KW	3KW	5.5KW
GLD11-32	32A	32A	5.5KW	11KW	4KW	7.5KW
GLD11-40	40A	40A	7.5KW	15KW	7.5KW	11KW
GLD11-63	63A	63A	11KW	22KW	11KW	12.5KW
GLD11-80	80A	80A	18.5KW	30KW	15KW	22KW
GLD11-100	100A	100A	22KW	37KW	18.5KW	30KW

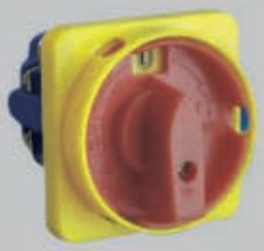
Switch	Type	NO.of poles	A	B	Cam	D_1	D_2	F	G	H	L
GLD11-25	On-Off	3pole	64	48	4	4	22	42	-	54	62
	On-Off	4pole	64	48	4	4	22	56	-	54	62
GLD11-32	On-Off	3pole+N	64	48	4	4	22	56	-	54	62
	On-Off	3pole+N+E	64	48	4	4	22	69	-	54	62
	On-Off	6pole	64	48	4	4	22	-	84	54	62
GLD11-40	On-Off	3pole	64	48	4	4	22	50	-	64	67
	On-Off	4pole	64	48	4	4	22	66	-	64	67
GLD11-63	On-Off	3pole+N	64	48	4	4	22	66	-	64	67
	On-Off	3pole+N+E	64	48	4	4	22	82	-	64	67
	On-Off	6pole	64	48	4	4	22	-	100	64	67
GLD11-80	On-Off	3pole	64	48	4	5.5	22	70	-	80	82
	On-Off	4pole	64	48	4	5.5	22	92	-	80	82
GLD11-100	On-Off	3pole+N+E	64	48	4	5.5	22	104	-	80	82
	On-Off	6pole	88	68	4	5.5	22	-	140	80	82

2. Overall and mounting dimensions(mm)



E 67

Universal Changeover Switch



HZ12-16

HZ12-25

EP-20A

EP-75A

HZ12 Power Switch

Specifications

Type	HZ12-16		HZ12-25		HZ12-40	
Rated working current Ie(A)	16		25		40	
Rated working voltage Ue(V)	500		500		500	
Rated insulating current Ui(V)	380	500	380	500	380	500
Rated heating current Lth(A)	16	10	25	16	40	24
Mechanical life(times)	3×10^4					
Electrical life(times/n)	1×10^4					

EP Universal Changeover Switch

Specifications

Type	Ith A	Ui V	Ue V	AC-21A Ie A	AC-21A Ie A	AC-23A Ie A	AC-23A P kw	AC-2 Ie A	AC-2 P kw	AC-3 Ie A	AC-3 P kw	AC-4 Ie A	AC-4 P kw	AC-15 Ie A	DC-13 Ie A
EP-20	20	600	400	20	20	15	7.5	15	7.5	11	5.5	3.5	1.5	4	
			240											5	1
			120												5
EP-25	25		440	25	25	22	11	22	11	15	7.5	6.5	3	5	
			240											8	1.5
			120												9
EP-32	32		440	32	32	30	15	30	15	22	11	11	5.5	6	
			240											14	11
			120												25
EP-75	75		440	75	75	72	30	72	30	32	24	23	11.5		
			120												60
EP-125	125		440	125	125	90	45	90	45	36	45	30	18.5		

Number of cycles of operation	No-load	8500	Electrical life: 20×10^4 / 6×10^4
	loaded	1500	Mechanical life(times)
	Total	1000	60×10^4

LB3 LB4 LB5 Universal Combined Switch

Specifications

Controlling current or power / Application category / Type	Heat current Ith	Resistant load AC21	IEC/BS/VD rated nominal value: AC23 occasional switch over motor or high induction load 3×220 ~240V	AC23 occasional switch over motor or high induction load 3×380 ~440V	Ac3 direct on-line starting motor 3×220 ~240V	Ac3 direct on-line starting motor 3×380 ~440V
LB3-25	25A	25A	4kW	7.5kW	3kW	5.5kW
LB4-40	40A	40A	7.5kW	15kW	7.5kW	11kW
LB5-63	63A	63A	11kW	22kW	11kW	12.5kW

LB3

LB4

LB5

YHT Industrial Plug & Socket

Amp	Poles	Voltage	Type
16A	2P+E	220V	YHT-013
32A	2P+E	220V	YHT-023
16A	2P+E	220V	YHT-113
32A	2P+E	220V	YHT-123
16A	2P+E	220V	YHT-213
32A	2P+E	220V	YHT-223

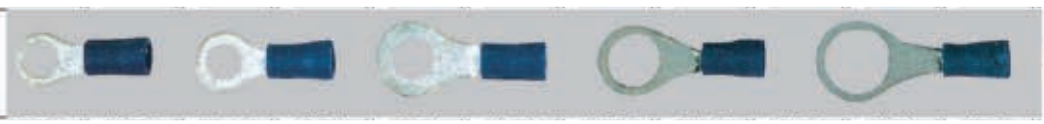
Amp	Poles	Voltage	Type
16A	2P+E	220V	YHT-413
32A	2P+E	220V	YHT-423
16A	3P+E	380V	YHT-414
32A	3P+E	380V	YHT-424
16A	3P+N+E	380V	YHT-415
32A	3P+N+E	380V	YHT-425

Amp	Poles	Voltage	Type
16A	3P+E	380V	YHT-014
32A	3P+E	380V	YHT-024
16A	3P+E	380V	YHT-114
32A	3P+E	380V	YHT-124
16A	3P+E	380V	YHT-214
32A	3P+E	380V	YHT-224

Amp	Poles	Voltage	Type
63A	2P+E	220V	YHT-033
63A	3P+E	380V	YHT-034
63A	3P+N+E	380V	YHT-035
63A	2P+E	220V	YHT-133
63A	3P+E	380V	YHT-134
63A	3P+N+E	380V	YHT-135

Amp	Poles	Voltage	Type
16A	3P+N+E	380V	YHT-015
32A	3P+N+E	380V	YHT-025
16A	3P+N+E	380V	YHT-115
32A	3P+N+E	380V	YHT-125
16A	3P+N+E	380V	YHT-215
32A	3P+N+E	380V	YHT-225

Pre–insulation Terminal

AWG22-16 DIN0.5-1.5mm²					
Bolt mouth dimension	3.2mm	3.7mm	3.7mm	3.7mm	4.3mm
Type	RV1.25-3	RVS1.25-3.5	RVM1.25-3.5	RVL1.25-3.5	RVS1.25-4
AWG22-16 DIN0.5-1.5mm²					
Bolt mouth dimension	4.3mm	5.3mm	6.5mm	8.4mm	10.5mm
Type	RVL1.25-4	RV1.25-5	RV1.25-6	RV1.25-8	RV1.25-10
AWG16-14 DIN1.5-2.5mm²					
Bolt mouth dimension	3.2mm	3.7mm	3.7mm	4.3mm	4.3mm
Type	RV2-3	RVS-3.5	RVM2-3.5	RVS2-4	RVL2-4
AWG16-14 DIN1.5-2.5mm²					
Bolt mouth dimension	5.3mm	5.3mm	6.5mm	8.4mm	10.5mm
Type	RVS2-5	RVL2-5	RV2-6	RV2-8	RV2-10
AWG14-12 DIN2.5-4mm²					
Bolt mouth dimension	4.3mm	5.3mm	6.5mm	10.5mm	
Type	RV3.5-4	RVS3.5-5	RV3.5-6	RV5.5-10	
AWG12-10 DIN4-6mm²					
Bolt mouth dimension	4.3mm	4.3mm	5.3mm	6.5mm	8.4mm
Type	RVS5.5-4	RVL5.5-4	RV5.5-5	RV5.5-6	RVS5.5-8
AWG22-16 DIN0.5-1.5mm²					
Bolt mouth dimension	3.2mm	3.7mm	3.7mm	4.3mm	4.3mm
Type	SV1.25-3	SV1.25-3.5	SVL1.25-3.5	SVS1.25-3.5	SVM1.25-4
AWG16-14 DIN1.5-2.5mm²					
Bolt mouth dimension	5.3mm	6.5mm	3.2mm	3.7mm	4.3mm
Type	SVS1.25-5	SVS1.25-6	SV2-3	SVS2-3.5	SVM2-4

Pre–insulation Terminal

AWG14-12 DIN1.5-2.5mm²					
Bolt mouth dimension	4.3mm	5.3mm	6.5mm	4.3mm	5.3mm
Type	SVL2-4	SVS2-5	SVS2-6	SV3.5-4	SV3.5-5
AWG12-10 DIN4-6mm²					
Bolt mouth dimension	4.3mm	5.3mm	6.5mm	6.5mm	8.4mm
Type	SVL5.5-4	SV5.5-5	SVS5.5-6	SVL5.5-6	SV5.5-8
					
Female pre-Insulation splice	2.8×0.5/0.8 FDD1.25-110	4.75×0.5/0.8 FDD1.25-187	6.35×0.5 FDD2-187(5)	4.75×0.8 FDD2-187(8)	6.35×0.8 FDD2-250	6.35×0.8 FDD5.5-250
						
Tube shape pre-insulation terminal	E0508	E7508	E1008	E1508	E2508	E4009	E1012
						
Needle shape pre-insulation terminal	05-1.5×10 PTV1.25-10	1.5-2.5×12 PTV2-12	4-6×13 PTV5.5-13			
						
Male pre-insulation splice	6.35×0.8 MDD1.25-250	6.35×0.8 MDD2-250	6.35×0.8 MDD5.5-250			
						
Bullet shape female full insulation splice	4.3mm HV1.25-4	5.3mm HV2-5	5.3mm HV5.5-5			
						
Short full insulation inter mediate splice	PVT1	PVT2	PVT5			
						
Comcave sheet shape preinsulation terminal	LBV1-3					

Plate shape preinsulatio terminal	 2.3×10 DBV1.25-10	2.3×10 DBV2-10	2.8×10 DBV5.5-10
Bullet shape male pre-insulation splice	 4mm MPD1.25-156	4mm MPD2-156	4mm MPD5.5-195
Long full insulation interm-ediate splice	 BV1.5	BV2	BV5.5
Bullet shape female full insulation splice	 4mm FRD1.25-156	5mm FRD2-195	5mm FRD5.5-195

Electrical Accessories

Unit: mm

Screw On Wire Connectors

Type	Height	Width	Inner diameter	Applicable wire	Colour
P71	15.0	8.7	6.5	Min#20×1+#22×1Max#16×2	Grey
P72	18.0	10.0	7.5	Min#20×3 Max#16×3	Blue
P73	23.0	11.2	9.5	Min#20×3 Max#16×3+#18×1	Orange
P74	24.0	13.6	10.8	Min#14×1+#18×1 Max#14×4+#18×1	Yellow
P75	28.0	16.1	12.7	Min#14×2 Max#10×2+#12×2	Red

Unit: mm

Cable Gland

Type	Diameter	Screw length
PG7	3-6.5	8
PG9	4-8	8
PG11	5-10	8
PG13.5	6-12	9
PG16	10-14	10
PG21	13-18	11
PG29	18-25	11
PG36	22-32	13
PG42	30-33	13
PG48	34-44	13

Unit: mm

Cable Gland

Type		Seal holes	Threaded entry metic	Cable range ϕ	Thread O. D.	Panel mounting Hold	Thread length	Sealing nut size	Lock nut size
black	grey								
MG12-08B	MG12-08G	◎	M12 × 1.25	7.6 ~ 4.6	12	12.5	8.5	19	18
MG16-10B	MG16-10G		M16 × 1.5	10 ~ 6	16	16.5	15	22	22
MG20-14B	MG20-14G		M20 × 1.5	14 ~ 9	20	20.5	15	27	27
MG25-18B	MG25-18G		M25 × 1.5	18 ~ 13	25	25.5	15	33	33
MG32-25B	MG32-25G		M32 × 1.5	25 ~ 18	32	33	15	41	41
MG40-30B	MG40-30G		M40 × 1.5	30 ~ 24	40	41	20	50	50
MG50-39B	MG50-39G		M50 × 1.5	39 ~ 30	51	51	22	62	61
MG63-49B	MG63-49G		M63 × 1.5	48.5 ~ 40	63	64	25	75	75

Unit: mm

Heat Shrinkable Tubing

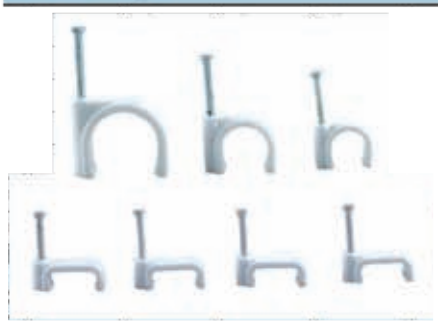
Type	Diameter	Type	Diameter	Type	Diameter	Type	Diameter
DRS-1	1.0	DRS-7	7.0	DRS-16	16.0	DRS-40	40.0
DRS-1.5	1.5	DRS-8	8.0	DRS-17	17.0	DRS-50	50.0
DRS-2	2.0	DRS-9	9.0	DRS-18	18.0	DRS-60	60.0
DRS-2.5	2.5	DRS-10	10.0	DRS-20	20.0	DRS-70	70.0
DRS-3	3.0	DRS-11	11.0	DRS-22	22.0	DRS-80	80.0
DRS-3.5	3.5	DRS-12	12.0	DRS-25	25.0	DRS-90	90.0
DRS-4	4.0	DRS-13	13.0	DRS-28	28.0	DRS-100	100.0
DRS-5	5.0	DRS-14	14.0	DRS-30	30.0	DRS-120	120.0
DRS-6	6.0	DRS-15	15.0	DRS-35	35.0	DRS-150	150.0

Electrical Accessories

Unit: mm

Nylon Cable Ties	Type	Width	Length	Type	Width	Length	Type	Width	Length
	3×60	2.5	60	5×250	4.8	250	9×550	9.0	550
	3×80	2.5	80	5×280	4.8	280	9×650	9.0	650
	3×90	2.5	90	5×300	4.8	300	9×700	9.0	700
	3×100	2.5	100	5×350	4.8	350	9×760	9.0	760
	3×120	2.5	120	5×370	4.8	370	9×920	9.0	920
	3×140	2.5	140	5×380	4.8	380	9×1020	9.0	1020
	3×150	2.5	150	5×400	4.8	400	9×1150	9.0	1150
	3×160	2.5	160	5×430	4.8	430	9×1350	9.0	1350
	3×200	2.5	200	5×450	4.8	450	10×450	10.0	450
	4×120	3.5	120	5×500	4.8	500	12×300	12.7	300
	4×140	3.5	140	8×150	7.0	150	12×400	12.7	400
	4×150	3.5	150	8×180	7.0	180	12×540	12.7	540
	4×180	3.5	180	8×200	7.0	200	12×650	12.0	650
	4×200	3.5	200	8×250	7.0	250	12×750	12.0	750
	4×250	3.5	250	8×270	7.0	270	12×780	12.7	780
	4×280	3.5	280	8×300	7.0	300			
	4×300	3.5	300	8×350	7.9	350			
	4×370	3.5	370	8×370	7.9	370			
	5×120	4.8	120	8×400	7.9	400			
	5×180	4.8	180	8×450	7.9	450			
	5×190	4.8	190	8×500	7.9	500			
	5×200	4.8	200	8×750	7.5	750			

Unit: mm

Cable Clips	Round type	H	Nail	Round type	H	Nail	Flat type	H	Nail
	3.5mm	4.5	1.47×14	16mm	17.7	2.35×32	2.5mm	3.5	1.4×14
	4mm	5.3	1.7×14	17mm	19.0	2.6×38	4mm	6.0	1.7×14
	5mm	6.3	1.7×14	18mm	19.7	2.6×38	5mm	6.0	1.7×14
	6mm	7.4	1.85×16	20mm	22.2	2.7×40	6mm	6.5	1.7×16
	7mm	8.4	1.85×18	22mm	25.0	2.9×43	7mm	7.0	1.9×16
	8mm	9.4	1.95×19	25mm	27.7	3.1×50	8mm	7.5	2.1×19
	9mm	10.4	2.05×22	30mm	33.1	3.5×55	9mm	8.2	2.1×20
	10mm	11.4	2.20×23	32mm	35.6	3.5×55	10mm	8.6	2.3×21
	12mm	13.4	2.20×25	35mm	36.6	3.5×60	12mm	9.0	2.3×23
	14mm	16.4	2.35×30	40mm	45.2	3.5×65	14mm	11.0	2.3×25

Unit: mm

Insulate Connector	Type	Tensile strength (lbs)	Totgue strength (ft lbs)	Voltage withstand (kv)	Screw	Weight (g)
	SM-25	500	6	6	6	28
	SM-30	550	8	8	8	44
	SM-35	600	10	10	8	50
	SM-40	650	10	12	8	86
	SM-51	1000	20	15	8	103
	SM-76	1500	40	25	10	233

Cooling Fan

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (Inch/H₂O)	Moise (dBA)	Weight (Gram)
80×80×25	YC8025-1	115	50	0.14	15	2300	21	0.11	22	225
	YC8025-2	115	60	0.13	11	2800	23	0.15	24	225
	YC8025-3	230	50	0.08	16	2300	21	0.11	22	225
	YC8025-4	230	60	0.07	11	2800	23	0.15	24	225

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (Inch/H₂O)	Moise (dBA)	Weight (Gram)
92 × 92 × 25	YC9225-1	115	50	0.14	15	2300	25	0.13	23	270
	YC9225-2	115	60	0.13	12	2500	27	0.14	24	270
	YC9225-3	230	50	0.08	16	2300	25	0.13	23	270
	YC9225-4	230	60	0.07	11	2700	27	0.14	24	270

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (Inch/H₂O)	Moise (dBA)	Weight (Gram)
110×110×25	YC11025-1	115	50	0.16	17	2100	47	0.13	31	310
	YC11025-2	115	60	0.15	22	2400	52	0.14	34	310
	YC11025-3	230	50	0.10	18	2100	47	0.13	31	310
	YC11025-4	230	60	0.09	22	2400	52	0.14	34	310

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (Inch/H₂O)	Moise (dBA)	Weight (Gram)
120 × 120 × 25	YC12025-1	115	50	0.16	17	1800	49	0.14	36	320
	YC12025-2	115	50	0.23	24	2100	61	0.13	38	320
	YC12025-3	115	60	0.19	19.70	2400	70	0.15	44	320
	YC12025-4	230	50	0.10	18	1800	49	0.14	36	320
	YC12025-5	230	50	0.11	21	2100	61	0.13	38	320
	YC12025-6	230	50	0.10	18	2400	70	0.15	44	320

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (Inch/H₂O)	Moise (dBA)	Weight (Gram)
120 × 120 × 38	YC12038-1	115	50	0.25	25	2500	87	0.23	46.5	510
	YC12038-2	115	60	0.23	20	2900	108	0.28	52.6	510
	YC12038-3	230	50	0.14	25	2500	87	0.23	46.5	510
	YC12038-4	230	60	0.12	20	2900	108	0.28	52.6	510
	YC12038-5	380	50	0.14	25	2500	87	0.23	46.5	510
	YC12038-6	380	60	0.12	20	2900	108	0.28	52.6	510

Cooling Fan

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (InchH2O)	Moise (dBA)	Weight (Gram)
135 × 135 × 32	YC13532-1	115	50	0.28	25	2350	92	0.29	44.3	510
	YC13532-2	230	50	0.16	25	2350	92	0.29	44.3	510
	YC13532-3	380	50	0.12	30	2300	92	0.29	44.3	510

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (InchH2O)	Moise (dBA)	Weight (Gram)
172 × 152 × 39	YC15239-1	110	50	0.30	35	2400	4.1	22	CI21 3UF250V	700
	YC15239-2	220	50	0.13	27	2400	4.1	22	CBB22 1UF/400V	700
	YC15239-3	220	50	0.15	30	2600	4.6	24	CBB22 1UF/400F	700
	YC15239-4	380	50	0.10	26	2400	4.1	22	CBB21 334J630V	700
	YC15239-5	380	50	0.12	30	2600	4.6	24	CBB21 344J630V	700

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (InchH2O)	Moise (dBA)	Weight (Gram)
152 × 172 × 51	YC17251-1	115	50	0.33	25	2500	180	0.38	49.6	900
	YC17251-2	115	60	030	23	2700	195	0.52	53	900
	YC17251-3	230	50	0.18	25	2500	180	0.38	49.6	900
	YC17251-4	230	60	0.25	40	2900	195	0.52	53	900
	YC17251-5	380	50	0.14	30	2600	180	0.38	49.6	900

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (InchH2O)	Moise (dBA)	Weight (Gram)
152 × 172 × 52	YC17252-1	115	50	0.33	25	2500	180	0.38	49.6	900
	YC17252-2	115	60	0.30	23	2700	195	0.52	53	900
	YC17252-3	230	50	0.18	25	2500	180	0.38	49.6	900
	YC17252-4	230	60	0.25	40	2900	195	0.52	53	900
	YC17252-5	380	50	0.14	30	2600	180	0.38	49.6	900

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (InchH2O)	Moise (dBA)	Weight (Gram)
180 × 180 × 61	YC18061-1	115	50	0.60	50	2500	255	0.60	58	1700
	YC18061-2	230	50	0.35	55	2500	255	0.60	58	1700
	YC18061-3	380	50	0.25	60	2500	255	0.60	58	1700

Technical parameter

Dimension (mm)	Type	Voltage (VAC)	Frequency (Hz)	Current (AMP)	Power (Watts)	Speed (RPM)	Air Flo (CFM)	Pressure (InchH2O)	Moise (dBA)	Weight (Gram)
200 × 200 × 61	YC20061-1	115	50	0.80	65	2300	254	0.58	56	1800
	YC20061-2	230	50	0.45	70	2500	285	0.65	60	1800
	YC20061-3	380	50	0.28	70	2500	285	0.65	60	1800

Hydraulic Crimping Tool

CYO-300 Strap safety set

CYO-300C Strap safety set

CYO-400 Strap safety set

CYO-400A Strap safety set

CYO-410 Strap safety set

CYO-410H

CYO-430 Strap safety set

CYO-430H

Type	Crimping range(mm^2)		Output(T)	Ram Stroke(mm)	Standard Mould (mm^2)	Crimping type
	Al Terminal	Cu Terminal				
CYO-300	10-240	16-300	13	22	16、25、35、50、70、95、120、150、185、240、300	Hexagon
CYO-300C	25-240	35-300	13	30	35、50、70、95、120、150、185、240、300	Hexagon
CYO-400	35-240	50-400	13	30	50、70、95、120、150、185、240、300、400	Hexagon
CYO-400A	35-300	50-400	13	30	50、70、95、120、150、185、240、300、400	Hexagon
CYO-410	35-300	50-400	13	30	50、70、95、120、150、185、240、300、400	Hexagon
CYO-410H	35-240	50-400	13	30	50、70、95、120、150、185、240、300、400	Hexagon
CYO-430	35-300	50-400	13	30	50、70、95、120、150、185、240、300、400	Hexagon
CYO-430H	35-300	50-400	17	30	50、70、95、120、150、185、240、300、400	Hexagon

Hydraulic Crimping Tool

CYO-510B Strap safety set

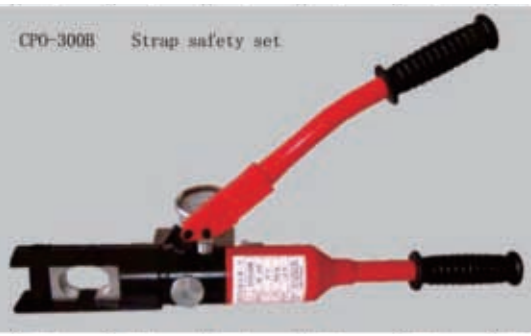
CYO-510H

CPO-150S Strap safety set

CPO-240A Strap safety set

CPO-300 Strap safety set

CPO-300B Strap safety set



CPO-300H/400H

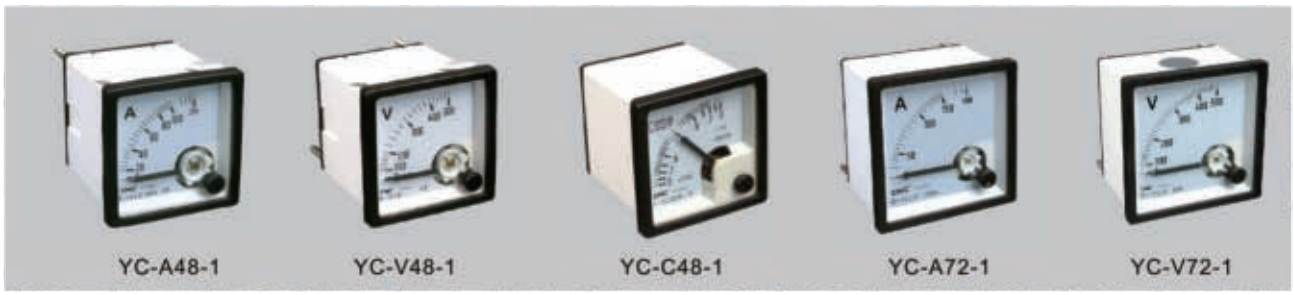
CPO-400 Strap safety set

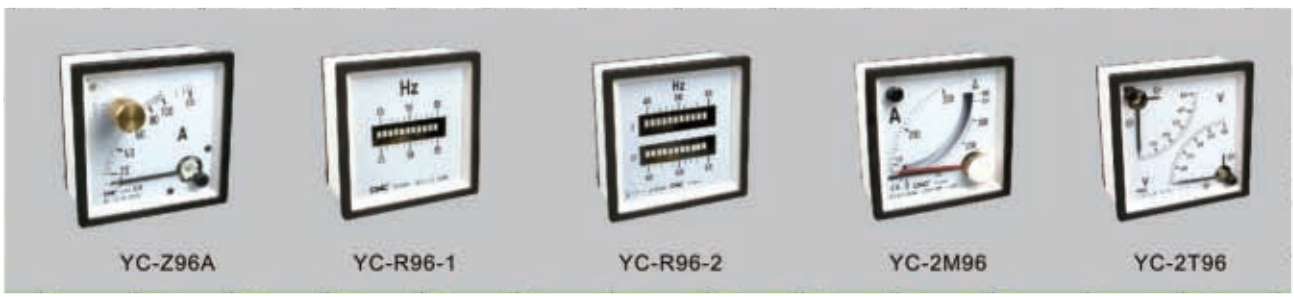
Type	Crimping range(mm²)		Output(T)	Ram Stroke(mm)	Standard Mould (mm²)	Crimping type
	Al Terminal	Cu Terminal				
CYO-510B	35-300	50-400	17	38	50、70、95、120、150、185、240、300、400	Hexagon
CYO-510H	35-300	50-400	17	38	50、70、95、120、150、185、240、300、400	Hexagon
CPO-150S	10-150	16-185	12	20	16-70、70-185、1PCS、16-25、35、50-70、95、120、150、185	Hexagon
CPO-240A	10-185	16-240	12	22	16、25、35、50、70、95、120、150、185、240	Hexagon
CPO-300	10-240	16-300	13	22	16、25、35、50、70、95、120、150、185、240、300	Hexagon
CPO-300B	10-240	16-300	13	22	16、25、35、50、70、95、120、150、185、240、300	Hexagon
CPO-300H	10-240	16-300	13	22	16、25、35、50、70、95、120、150、185、240、300	Hexagon
CPO-400H	35-300	50-400	17	22	50、70、95、120、150、185、240、300、400	Hexagon

Panel Meter

1. General

Panel meter is one kind of electric measure indicator with the direct effecti on of imitative 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.





Digital Panel Meter

Digital panel meter which is various and artistic in appearance design is used for dual slope, high precise A/D changeover circuit and high light LED cassette setting specification. It is very convenient for user to fix the equipment.

YCSE-96 96×96×120mm
96×96×85mm

YCSE-42 120x120x95mm

YCSE-72 72x72x120mm
72×72×112mm

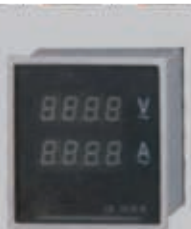
YCSE-16 160x80x120mm

1. Specifications

Description	Direct input range	Input current range	Operation voltage	Display range	Class
AC & DC digital voltage meter	AC DC 0-100V	—	AC 220V 50/60Hz	0 - 1999	0.5
AC & DC digital Amper meter	AC 10-20A DC 0-10A	—	AC 220V 50/60Hz	0 - 1999	0.5
Frequency digital meter	AC 10-2KHZ (20-300V)	—	AC 220V 50/60Hz	0 - 1999	0.5
AC TRI-phase watt meter	AC 0-100V	AC 5A	AC 380V 50/60Hz AC 110V 50/60Hz	0 - 1999	—
AC single-phase watt meter	AC 0-220V	AC 10-5A	AC 220V 50/60Hz AC 110V 50/60Hz	0 - 1999	—
AC single-phase factor meter	AC 100-300V	AC 5A	AC 220V 50/60Hz	0.5 - 0 - 0.5	—

YCSE-96-1

YCSE-96-2



YCSE-96-A.V
size:96×96×110mm

YCSE-42-3A
size:120×120×95mm

YCSE-42-3V
size:120×120×95mm

JUNXIONG ELECTRICAL LIMITED

ADD: ZHENAN ELECTRICAL ZONE, LIUSHI ,
YUEQING ZHEJIANG 325603CHINA

TELL: 0086-13506672360

FAX: 0086-577-62992027

EMAIL: MANETTE@JUNXELE.COM

WEBSITE: WWW.JUNXELE.COM