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CNC

CNC Electric Group Co.,Ltd.

Address: CNC High-tech Industrial Zone, North Baixiang, Yueqing, Zhejiang, China
Postal code: 325603
Tel: 0086-577-61989999
Fax: 0086-577-61891122
Website: http://www.cncele.com
E-mail: cncele@cncele.com

CATALOGUE

LOW VOLTAGE ELECTRICAL PRODUCTS

CNC

NEW PRODUCTS

CNC Deliver Power For Better Life

NEW PRODUCTS

- AC Contactor
- Miniature Circuit Breaker
- Moulded Case Circuit Breaker
- Automatic Transfer Switch

www.cncele.com

Company Profile

About CNC

CNC was founded in 1988 specialized in Low-voltage electrical and Power Transmission and Distribution industries. We provide our customer with profitable growth by offering integrated comprehensive electrical solution.

CNC key value is innovation and quality to ensure clients with safe, reliable products. We set up advanced assembly line, test center, R&D Center and quality control center. We have got the certificates of ISO9001, ISO14001, OHSAS18001 and CE, CB, SEMKO, KEMA, TUV etc.

As a leading manufacturer of electrical products in China, our business covers over 100 countries.

- **China Top 500 Enterprise**
- **China Top 500 Manufacturing Enterprise**
- **China Top 100 Industrial Electrical Enterprise**
- **National High-tech Enterprise**

Contents

CNC
ELECTRIC

focus on ELECTRIC for 30 Years SINCE 1988

▸ 3 Advantages
of CJX2S Series Contactor

More auxiliary contacts, meet various application requirements

9-95A with 1NO+1NC auxiliary contact, help customer to optimize inventory

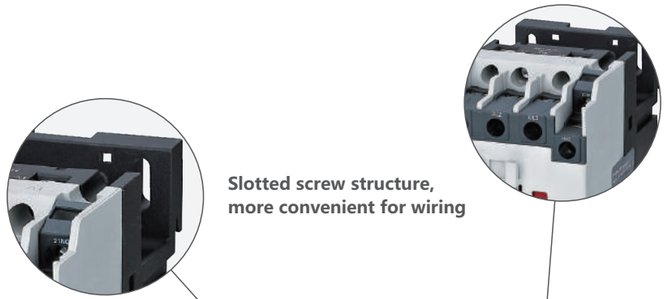
Suitable for larger voltage fluctuation to ensure the stable operation of the equipment

Suit for 70%--120% voltage range, effectively avoid the impact of power grid voltage fluctuations, can operate smoothly under peak electricity.

Super environment adaptability, can be reliable operation with extreme environment.

The ambient temperature from-35 ℃ to 70 ℃ , meet the application requirements of all kinds of occasions.

Product Structure Analysis Diagram



Slotted screw structure, more convenient for wiring

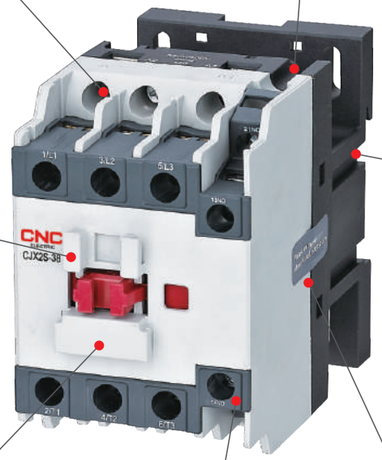
Design with 1NO+1NC auxiliary contact

Different from traditional design, meet the new developed requirements of electrical industry

- One more auxiliary contact than traditional contactor
- When application need 1NO+1NC, it is not necessary to attach additional accessories. It can save time and cost, and improve the inventory management.

ALL-around anti-dust design

- Transparent dust cover
- Side anti-dust sticker



Unique slider design

Turn tedious into simple, improve the efficiency of installation and disassembly

- Unique slider design
- Tool free installation and disassembly
- Originally cumbersome disassembly into a simple operation

Integrated label, never fall off

Seamless design

Unique terminal guard design

Anti-electric shock, more secure

Product Overview

CJX2S series AC Contactor with novel appearance and compact structure is suitable for using starting & controlling the AC motor frequently, switching on and off the circuit at a long distance. It is used in combination with thermal relay to compose a magnetic motor starter.

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

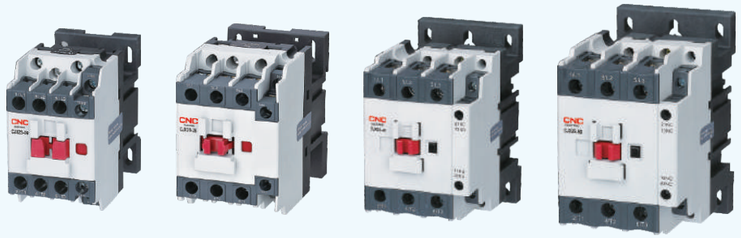
Specifications

1. Rated operation current(Ie): 9-95A ;
2. Rated operation voltage(Ue): 220V~690V ;
3. Rated insulation voltage: 690V ;
4. Poles: 3P ;
5. Installation: Din rail and screw installation

Operating and Installation Conditions

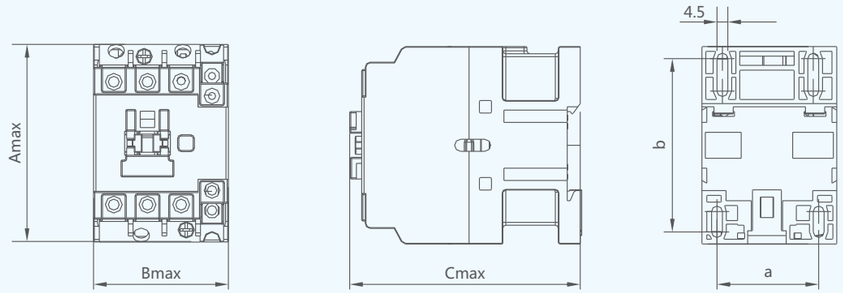
Type	Operating and Installation Conditions
Installation category	III
Pollution level	3
Certification	CE, CB, CCC, TUV
Protection degree	CJX2S-09~38: IP20; CJX2S-40~95: IP10
Ambient temperature	Limit of temperature: -35℃~+70℃, Normal temperature: -5℃~+40℃ , The average no more than +35℃ within 24 hours. If not in normal operating temperature range, please refer to "Instructions for abnormal environment"
Altitude	≤2000m
Ambient temperature	The maximum temperature of 70 degrees, the air relative humidity not exceed 50%, under lower temperature can allow for higher relative humidity. If the temperature is 20℃, the air relative humidity could up to 90%, Special measures should be taken for occasional condensation due to humidity changes.
Installation position	Inclination between installation surface and vertical surface should not exceed ±5°
Shock vibration	Products should be installed and used without significant shake, shock and vibration place.

Specifications

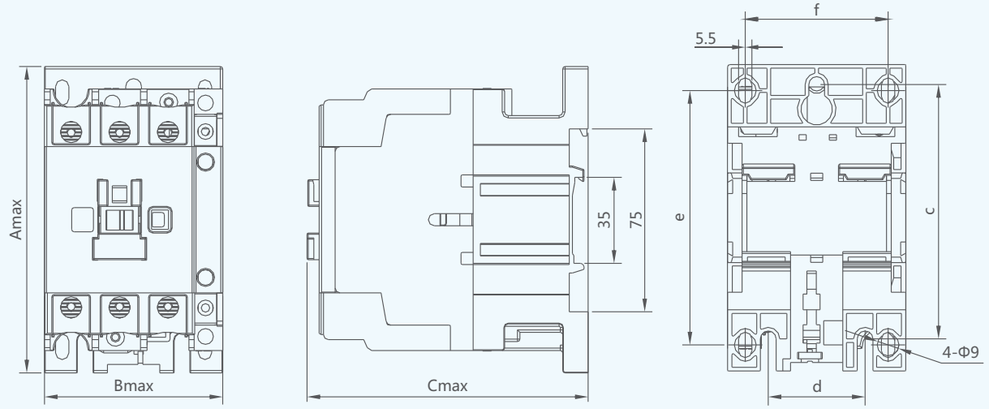
CJX2S Specifications													
Appearance													
Type			CJX2S-09	CJX2S-12	CJX2S-18	CJX2S-25	CJX2S-32	CJX2S-38	CJX2S-40	CJX2S-50	CJX2S-65	CJX2S-80	CJX2S-95
Main circuit characteristic													
Poles			3P										
Rated insulation voltage(Ui)		V	690										
Rated operating voltage(Ue)		V	380/400, 660/690										
Rated thermal current(Ith) , AC-1			20	20	32	40	50	50	60	80	80	125	125
Rated operation current(Ie)	AC-3,380/400V	A	9	12	18	25	32	38	40	50	65	80	95
	AC-3,660/690V	A	6.6	8.9	12	18	22	22	34	39	42	49	49
	AC-4,380/400V	A	3.5	5	7.7	8.5	12	14	18.5	24	28	37	44
	AC-4,660/690V	A	1.5	2	3.8	4.4	7.5	8.9	9	12	14	17.3	21.3
Rated operational power(Pe)	AC-3,380/400V	kW	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45
	AC-3,660/690V	kW	5.5	7.5	10	15	18.5	18.5	30	33	37	45	45
	AC-4,380/400V	kW	1.5	2.2	3.3	4	5.4	5.5	7.5	11	15	18.5	22
	AC-4,660/690V	kW	1.1	1.5	3	3.7	5.5	6	7.5	10	11	15	18.5
Mechanical life		10000 times	1200			1000			900			650	
Electrical life	AC-3	10000 times	110					90				65	
	AC-4	10000 times	22			22			17			11	
Frequency of operation	AC-3	times/hour	1200						600				
	AC-4	times/hour	300						300				
Connecting capability of main circuit terminal													
Flexible wire	1 wire	mm²	1...4			1.5...6			2.5...25			4...50	
No terminal	2 wire	mm²	1...4			1.5...6			2.5...16			4...25	
Flexible wire	1 wire	mm²	1...4			1...6			2.5...25			4...50	
With terminals	2 wire	mm²	1...2.5			1...4			2.5...10			4...16	
Hard wire	1 wire	mm²	1...4		1.5...6	1.5...10			2.5...25			4...50	
No terminal	2 wire	mm²	1...4			1.5...			2.5...10			4...25	
Fastening torque		N·m	1.2			1.8			5			9	
Coil													
Rated control voltage(Us)	50Hz	V	24、36、48、110、127、220/230、240、380/400、415、440										
	50/60Hz	V	24、36、48、110、127、220/230、240、380/400、415、440										
Allowed control circuit voltage(Us)	Operation	V	Installation inclination angle ±22.5°: 85%~110%Us ; Installation inclination angle±5°: 70%~120%										
	Release	V	Installation inclination angle ±22.5°: 20%~75%Us ; Installation inclination angle±5°: 20%~65%										
Power consumption of coil	Actuation	VA	60			70			200			200	
	Keep	VA	6-9.5			6-9.5			15-20			15-20	
	Consumption	W	1-3			1-3			6-10			6-10	
Auxiliary contacts													
Auxiliary contacts specification		A	11										
Rated thermal current (Ith)		A	10										
Rated operating voltage (Ue)	AC	V	380										
	DC	V	220										
Rated control capacit	AC-15	VA	360										
	DC-13	W	33										
Certification			CCC, CE, TUV, CB										

Overall and Mounting

CJX2S-09~38



CJX2S-40~95



Type	Amax	Bmax	Cmax	a	b	c	d	e	f
CJX2S-09, 12, 18	74.5	45.5	85.5	35	50/60	-	-	-	-
CJX2S-25, 32, 38	83	56.5	97	40	50/70	-	-	-	-
CJX2S-40, 50, 65	127.5	74.5	117	-	-	105	40	100/110	59
CJX2S-80, 95	127.5	85.5	125.5	-	-	105	40	100/110	67

General

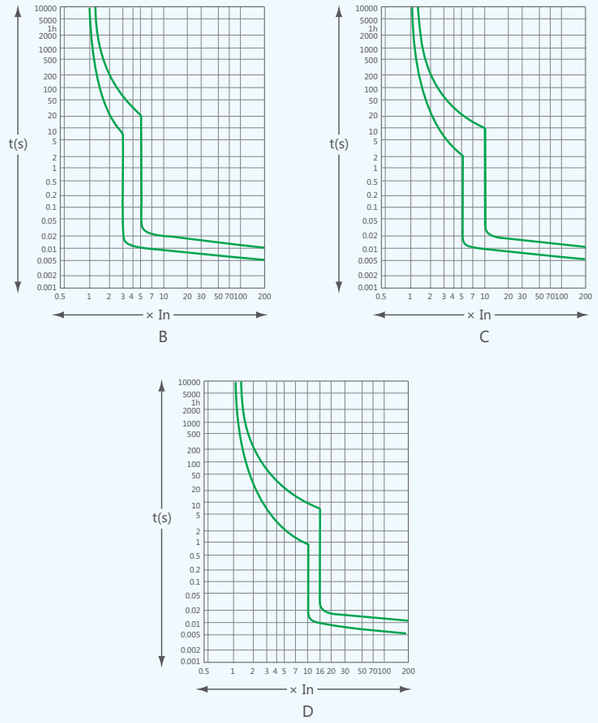
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure.
5. According to the type of instantaneous release classified as follows: type B(3-5)In, type C(5-10)In, type D(10-16)In

Release

Type	Test current	Tripping time	Type	Test current	Tripping time
B,C,D	1.13In	t≤1h(In≤63A)	B	3In	t≤0.1s
	1.13In	t≤2h(In＞63A)	C	5In	t≤0.1s
B,C,D	1.45In	t＜1h(In≤63A)	D	10In	t≤0.1s
	1.45In	t＜2h(In＞63A)	B	5In	t＜0.1s
B,C,D	2.55In	1s＜t＜60s(In≤32A)	C	10In	t＜0.1s
	2.55In	1s＜t＜120s(In＞32A)	D	16In	t＜0.1s

Curve

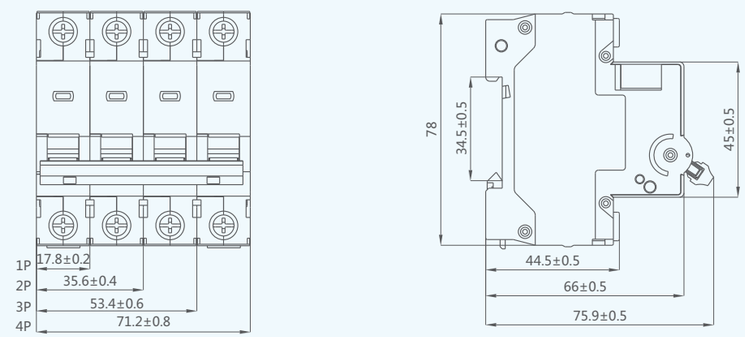
B,C,D Curve



Specifications

Type	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	240/415
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	4500, 6000
	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	6000
	Mechanical life	t	20000
	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	mm²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-Ibs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

Overall and mounting dimensions(mm)



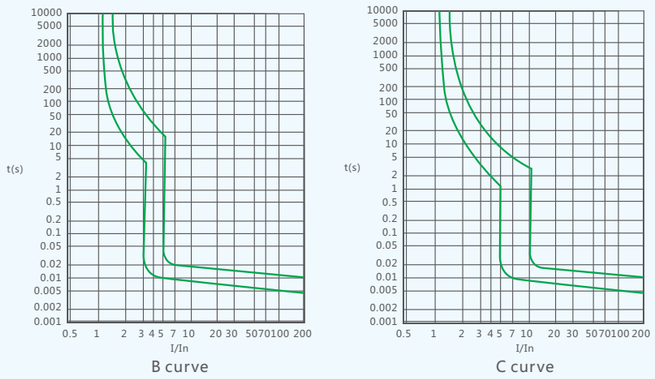
General

1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults
5. Used in residential building
6. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In

Release

Type	Test current	Tripping time	Type	Test current	Tripping time
B,C	1.13In	t≥1h(In≤63A)	B	3In	t≥0.1s
	1.13In	t≥2h(In > 63A)	C	5In	t≥0.1s
B,C	1.45In	t < 1h(In≤63A)	B	5In	t < 0.1s
	1.45In	t < 2h(In > 63A)			
B,C	2.55In	1s < t < 60s(In≤32A)	C	10In	t < 0.1s
	2.55In	1s < t < 120s(In > 32A)			

Curve



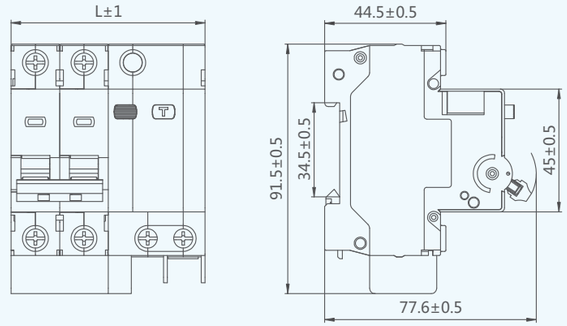
B curve

C curve

Specifications

Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	1P+N, 2, 3, 3P+N, 4
	Type(wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		B, C
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage Ue	V	230/400
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	500(In≤40A) 630(In > 40A)
	Rated short-circuit capacity Icn	A	4500, 6000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Contact position indicator		Yes
	Protection degree		IP20
	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	mm²	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-Ibs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



Poles	L(mm)
1P+N	53.3
2P	71.1
3P	101.9
3P+N	114.9
4P	132.7

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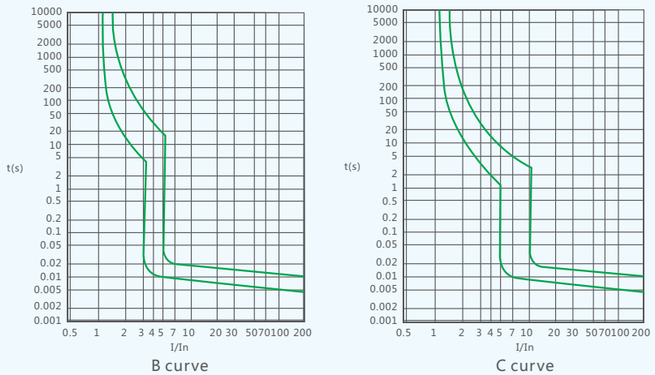
Release

Type	Test current	Tripping time	Type	Test current	Tripping time
B,C	1.13In	t≥1h(In≤63A)	B	3In	t≥0.1s
	1.13In	t≥2h(In > 63A)	C	5In	t≥0.1s
B,C	1.45In	t < 1h(In≤63A)	B	5In	t < 0.1s
	1.45In	t < 2h(In > 63A)	C	10In	t < 0.1s
B,C	2.55In	1s < t < 60s(In≤32A)			
	2.55In	1s < t < 120s(In > 32A)			

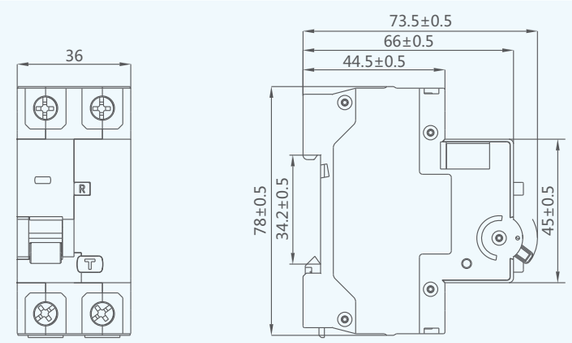
Curve



Specifications

Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	1P+N
	Type(wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		C, D
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage Ue	V	230
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1
	Rated residual making and breaking capacity IΔm	A	500(In≤40A) 630(In > 40A)
	Rated short-circuit capacity Icn	A	4500
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Contact position indicator		Yes
	Protection degree		IP20
	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	mm²	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-Ibs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



General

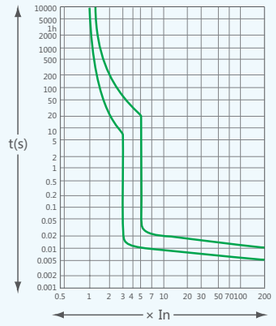
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure.
5. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In, type D(10-20)In

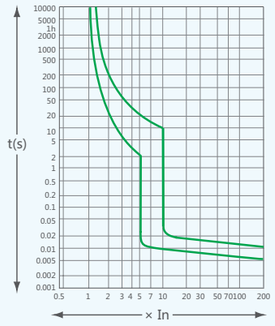
Release

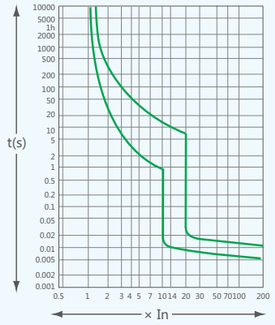
Type	Test current	Tripping time	Type	Test current	Tripping time
B,C,D	1.13In	t≤1h(In≤63A)	B	3In	t≤0.1s
	1.13In	t≤2h(In > 63A)	C	5In	t≤0.1s
B,C,D	1.45In	t < 1h(In≤63A)	D	10In	t≤0.1s
	1.45In	t < 2h(In > 63A)	B	5In	t < 0.1s
B,C,D	2.55In	1s < t < 60s(In≤32A)	C	10In	t < 0.1s
	2.55In	1s < t < 120s(In > 32A)	D	20In	t < 0.1s

Curve

B,C,D Curve



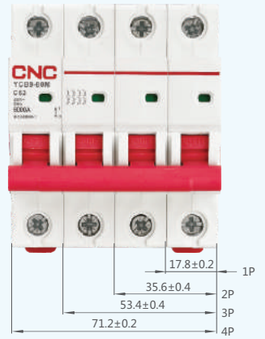


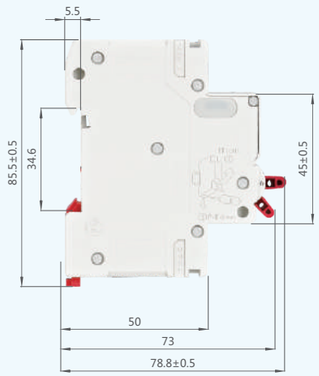


Specifications

Type	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	1, 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80
	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	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	20000
	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/U-type bar
	Terminal size top / bottom for cable	mm²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-Ibs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

Overall and mounting dimensions(mm)





General

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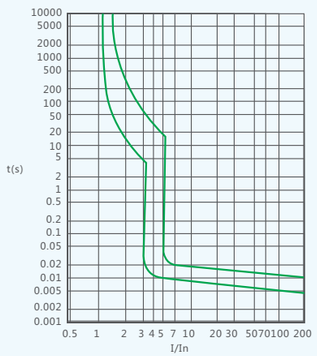
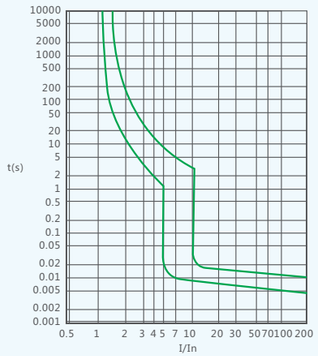
Release

Type	Test current	Tripping time	Type	Test current	Tripping time
B,C	1.13In	t≥1h(In≤63A)	B	3In	t≥0.1s
	1.13In	t≥2h(In＞63A)			
B,C	1.45In	t＜1h(In≤63A)	C	5In	t≥0.1s
	1.45In	t＜2h(In＞63A)			
B,C	2.55In	1s＜t＜60s(In≤32A)	B	5In	t＜0.1s
	2.55In	1s＜t＜120s(In＞32A)	C	10In	t＜0.1s

Curve



B curve

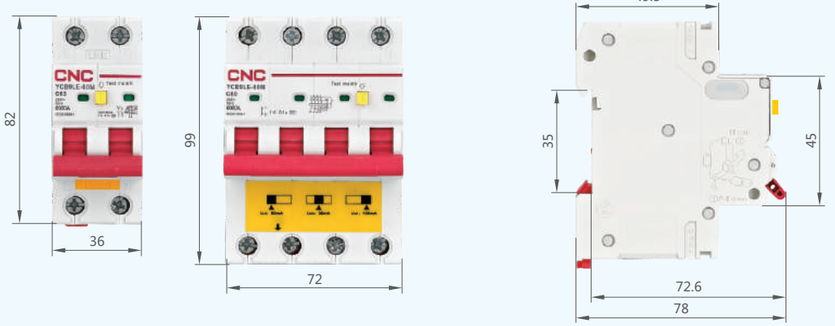


C curve

Specifications

Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	2, 4
	Type(wave form of the earth leakage sensed)		A/AC
	Thermo-magnetic release characteristic		B, C, D
	Rated current In	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80
	Rated voltage Ue	V	230/400
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1, 0.2
	Rated residual making and breaking capacity IΔm	A	500(In≤40A) 630(In＞40A)
	Rated short-circuit capacity Icn	A	6000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage Ui	V	500
	Pollution degree		3
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Contact position indicator		Yes
Connection and Installation	Protection degree		IP20
	Connection capacity	mm²	1~35
	Circumstance temperature	℃	-30~+70
	Elevation	m	≤2000
	Pollution degree		3
	Terminal connection type		Cable/Pin-type busbar
	Installation Environment		No obvious vibration and shock
	Installation category		Ⅲ
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



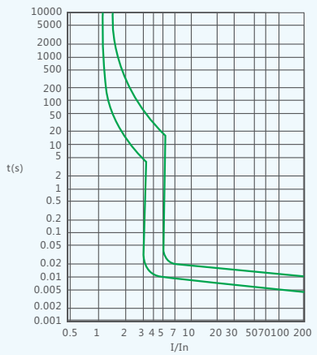
General

1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults
5. Used in residential building
6. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In

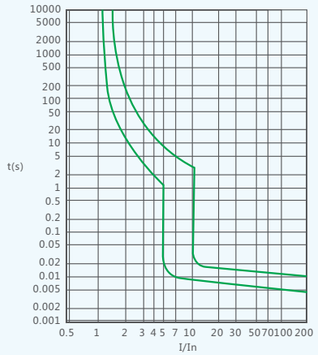
Release

Type	Test current	Tripping time	Type	Test current	Tripping time
B,C	1.13In	t≥1h(In≤63A)	B	3In	t≥0.1s
	1.13In	t≥2h(In＞63A)	C	5In	t≥0.1s
B,C	1.45In	t＜1h(In≤63A)	B	5In	t＜0.1s
	1.45In	t＜2h(In＞63A)			
B,C	2.55In	1s＜t＜60s(In≤32A)	C	10In	t＜0.1s
	2.55In	1s＜t＜120s(In＞32A)			

Curve



B curve

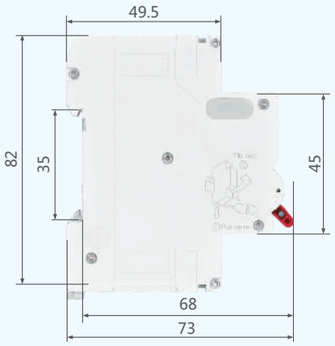


C curve

Specifications

Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	1P+N
	Type(wave form of the earth leakage sensed)		AC
	Thermal-magnetic release characteristic		B, C
	Rated current In	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40
	Rated voltage Ue	V	230
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1
	Rated residual making and breaking capacity IΔm	A	500(In≤40A) 630(In＞40A)
	Rated short-circuit capacity Icn	A	6000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Contact position indicator		Yes
	Protection degree		IP20
	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	mm²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm²	10
		AWG	18-5
	Tightening torque	N*m	2
		In-Ibs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



General

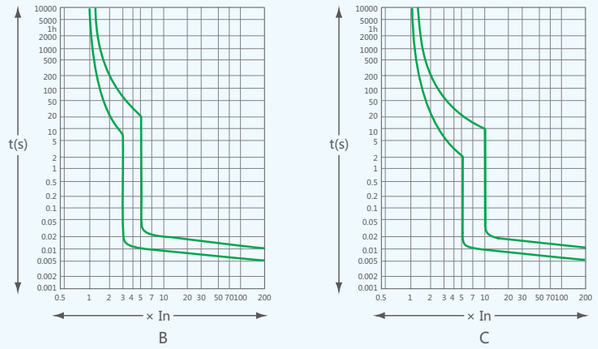
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure.
5. According to the type of instantaneous release classified as follows: type B(3-5)In, type C(5-10)In

Release

Type	Test current	Tripping time	Type	Test current	Tripping time
B,C	1.13In	t≤1h(In≤63A)	B	3In	t≤0.1s
	1.13In	t≤2h(In＞63A)			
B,C	1.45In	t＜1h(In≤63A)	C	5In	t≤0.1s
	1.45In	t＜2h(In＞63A)	B	5In	t＜0.1s
B,C	2.55In	1s＜t＜60s(In≤32A)	C	10In	t＜0.1s
	2.55In	1s＜t＜120s(In＞32A)			

Curve

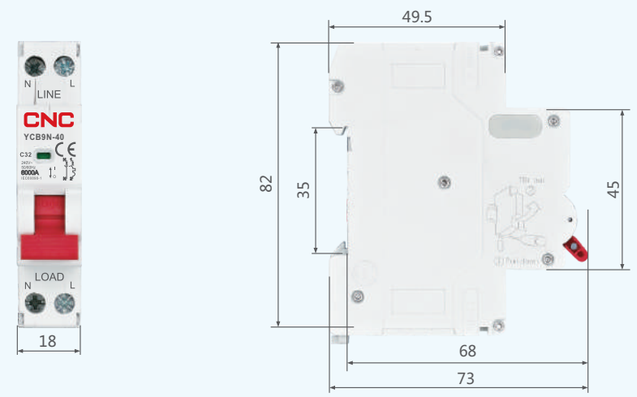
B,C Curve



Specifications

Type	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40
	Poles	P	1P+N
	Rated voltage Ue	V	240
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermal-magnetic release characteristic		B, C
Mechanical features	Electrical life	t	8000
	Mechanical life	t	20000
	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	mm²	16
		AWG	18-5
	Terminal size top / bottom for busbar	mm²	10
		AWG	18-5
	Tightening torque	N*m	2
		In-Ibs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

Overall and mounting dimensions(mm)



Products Overview

YCH9-125 series isolating switch is suitable in the resistive circuit of AC 50/60HZ, rated voltage 230/400V, rated current up to 125A. It's used primarily for circuit's turning on or off in non-load ed situation. And it functions on connection and isolation between lines and power, especially suitable to isolate power effectively and prevent circuit breaker from closing accidentally when maintain the circuit in order to ensure the safe operation of maintainer.
Product standard: IEC600947-3

Normal Operating Conditions

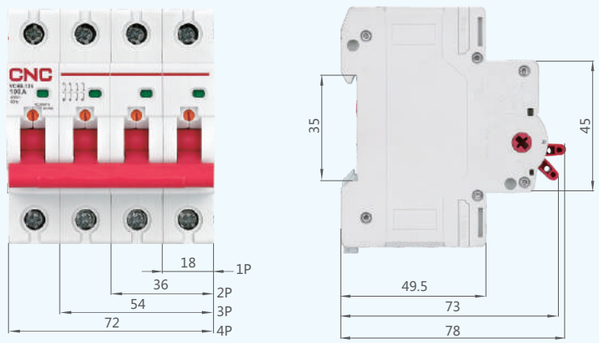
1. Ambient Temperature: -25℃~+60℃
2. Altitude: Not higher than 2000m
3. Use Category: AC-22A
4. Installation Method: Embedded vertical standard rail mounting
5. Wiring Method: Clamp connection wire with screw, tightening torque 2.5N.m

Main Technical Parameters

Item	Data
Rated Voltage Ue	AC240/415V
Poles	1P, 2P, 3P, 4P
Rated current Ie	32A, 63A, 80A, 100A, 125A
Rated impulse withstand voltage Uimp	(1.2/50us, 2000m) 4KV
Mechanical life	8500
Electrical life	1500

Rated current In(A)	Copper wire cross-sectional area
32	6
63	16
80	25
100	35
125	50

Overall and mounting dimensions(mm)



General

YCM7, YCM7RT, YCM7T/A, YCM7RE series circuit breaker is a new generation of breaker.
This breaker is applied for the distribution network of AC 50Hz, rated insulation voltage 690V, rated working voltage
up to 690V, rated working current up to 800A, which is for electric energy distribution, circuit protection, protection power supply facility from destroying by the fault of overloading, short circuit and undervoltage, meanwhile it is also used for protection from unfrequent starting, over loading, short circuit and undervoltage of the motor.
This breaker has such characteristics as high short circuit interrupting capacity, short arcing and etc., which is a ideal product for users. This breaker can be installed vertically (upright), and also horizontally
This breaker comply with standard IEC60947-2.

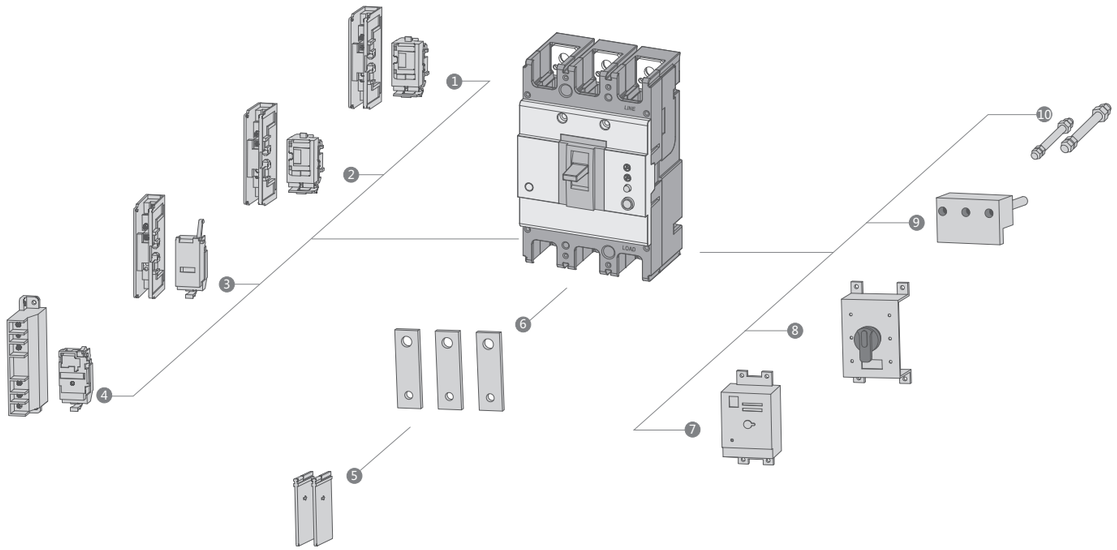
Product Features

1. Miniaturization design
   Product volume miniaturization can meet the customer's personality needs of the product installation size.
2. Size uniform
   The same shell level, different sub ability (S, M), different functions (air, leakage) product installation size is completely consistent.
3. The function of the reasonable parameter setting
   Circuit breaker can realize long-time delay overload inverse time, short circuit instantaneous action protection functions such as parameter setting, users can set their own protective properties required, the distribution network is used in the circuit breaker on the lower level with more reasonable.

Suitable Working Environment and Installation Condition

1. Altitude less than 2000m
2. Ambient medium temperature is from -50℃ to +40℃ (+45℃ for shipping product)
3. Can withstand moist air
4. Can withstand mold
5. Can withstand nuclear radiation
6. Max inclination is 22.5°
7. It can still work reliably if the product subjects to the normal vibration from ships
8. It can still work reliably if the product subjects to the earthquake (4g)
9. Put in the place where is no explosion danger and conductive dust which can't corrode metal and destroy the insulation.
10. Put in the place where is no sleet.

Circuit Breaker Component



1. Auxiliary contact
2. Alarm contact
3. Shunt release
4. Undervoltage release
5. Interphase barrier
6. Front connection plate
7. Motor driven operation mechanism
8. Extended manual operation handle
9. Plug in rear connection
10. Rear connection plate

Selection Guide

YCM7	-	125	C	P	/	4	300	-	125A	2	A	Q1	D1	Q	2

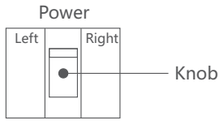
Type	Frame	Breaking capacity ICU/ICS(kA)			Operation	Poles
YCM7	125	C			P	4
MCCB	125, 160, 250, 630, 800 Remark: 125 Frame upgrade from 63 160 Frame upgrade from 125 250 Frame upgrade from 225 630 Frame upgrade from 400		S	M	P: Motor-driven Z: Rotary handle W: Direct	3: 3P 4: 4P
		125	15/8			
		160	25/18			
		250	25/18			
		400	35/25	50/35		
		630		50/35		
		800		50/35		

Tripping mode and inner accessory	Rated current(A)		Application	Option for 4P MCCB
300	125A		2	A
First figure means tripping unit way 2: Only with magnetic release 3: Thermal release+,magnetic release body Remark: The last two figures means accessory code (see accessories list)	125	63, 80, 100, 125	1. Power distribution 2. Motor-protection	A: N pole without protection, ON/OFF without B: N pole without protection, ON/OFF switched
	160	63, 80, 100, 125, 140, 160		
	250	100, 125, 140, 160, 180, 200, 225, 250		
	400	250, 315, 350, 400		
	630	500, 630		
	800	500, 630, 700, 800		

Accessory voltage			Motor-driven operation voltage		Connection	Connection plate
Q1			D1		Q	2
UVT	Shunt	Auxiliary	DC1	DC3	Q: Front H: Rear C: Plug-in	1: W/O 2: W
Q1: AC220V	F1: AC220V	J1: AC125V	D1: AC220V	D5: AC220V		
Q2: AC240V	F2: AC380V	J2: AC250V	D2: AC230V	D6: AC110V		
Q3: AC380V	F3: DC110V	J3: DC125	D3: AC380V	D7: DC220V		
Q4: AC415V	F4: DC24V	J4: DC24V	D4: AC400V	D8: DC110V		
				D9: AC110~240V		
				D10: DC100~220V		
			Remark: DC1, DC3 motor-driven operation voltage see external accessories table.			

Inner Accessories

Model		YCM7-125	YCM7-160	YCM7-250	YCM7-400/630	YCM7-800
Breaking capacity		S	S	S	S, M	M
No. of poles		3,4	3,4	3,4	3,4	3,4
Code	Accessory name					
208, 308	Alarm contact	●	●	●	●	●
210, 310	Shunt release	□	□	□	□	□
220, 320	Auxiliary contact	○	○	○	○	○
230, 330	Under-voltage release	■	■	■	■	■
240, 340	Shunt auxiliary contact	○ □	○ □	○ □	○ □	○ □
260, 360	Two groups auxiliary contacts		○ ○	○ ○	○ ○	○ ○
270, 370	Auxiliary contact UVT	○ ■	○ ■	○ ■	○ ■	○ ■
218, 318	Shunt alarm contact	● □	● □	● □	● □	● □
228, 328	Auxiliary alarm contact	● ○	● ○	● ○	● ○	● ○
238, 338	UVT alarm contact	● ■	● ■	● ■	● ■	● ■
248, 348	Shunt auxiliary alarm contact	● ○ □	● ○ □	● ○ □	● ○ □	● ○ □
268, 368	Two groups aux alarm contact				● ○ ○	● ○ ○
278, 378	Aux contact UVT alarm contact	● ○ ■	● ○ ■	● ○ ■	● ○ ■	● ○ ■
280, 380	Two groups aux contact and shunt		○ ○ □	○ ○ □	○ ○ □	○ ○ □



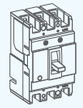
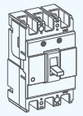
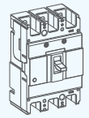
→ Accessories connecting wire

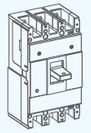
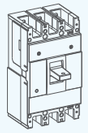
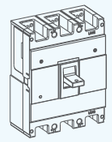
● Alarm contact ○ Aux contact □ Shunt release ■ Under voltage release(UVT)

Remark:

1. Right auxiliary, contact, left shunt, left UVT as options
2. Spec 220, 320, 240, 340, 270, 370 aux contact can be two contacts, need to confirm when ordered.

Technical Data

Type		YCM7-125S	YCM7-160S	YCM7-250S
Frame(A)		125	160	250
Number of poles		3,4	3,4	3,4
Products				
Rated current(A)		63, 80, 100, 125	63, 80, 100, 125, 140, 160	100, 125, 140, 160, 180, 200, 225, 250
Rated voltage Ue(V)		AC400V	AC400V	AC400V
Rated insulation voltage Ui(V)		AC690V	AC690V	AC690V
Short-circuit breaking capacity Icu/1cs(kA)	AC400V	15/8	35/25	35/25
Operation life (cycle)	ON	1000	1000	1000
	OFF	7000	7000	7000
Motor-driven operation		●	●	●
External rotary handle		●	●	●
Automatic tripping device		Thermal-magnetic	Thermal-magnetic	Thermal-magnetic

Type		YCM7-400S/M	YCM7-630M	YCM7-800M
Frame(A)		400	630	800
Number of poles		3,4	3,4	3,4
Products				
Rate current(A)		250, 315, 350, 400	500, 630	500, 630, 700, 800
Rated voltage Ue(V)		AC400V	AC400V	AC400V
Rated insulation voltage Ui(V)		AC690V	AC690V	AC690V
Short-circuit breaking capacity Icu/1cs(kA)	AC400V	35/25 50/35	50/35	50/35
Operation life (cycle)	ON	1000	1000	500
	OFF	4000	4000	2500
Motor-driven operation		●	●	●
External rotary handle		●	●	●
Automatic tripping device		Thermal-magnetic	Thermal-magnetic	Thermal-magnetic

● Means accessory as option

Characteristic Feature

1. Inverse time breaking action property of the over current release of the breaker (for power distribution) at the statusthat all poles and electrified simultaneously under abrent temp 40℃.

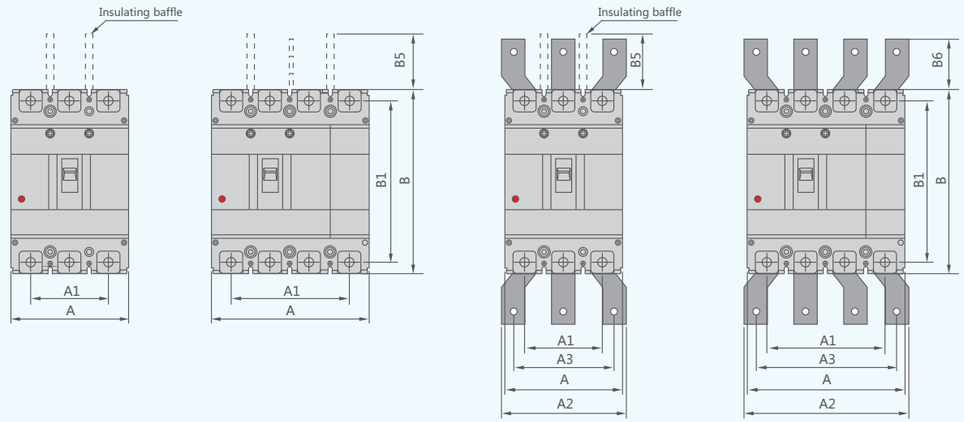
Test current	Current time	Conventional time		Initial status
		In≤63	63 <In	
Conventional non-trip current	1.05	≥1h	≥2h	Cold status
Conventional trip current	1.30	<1h	<2h	Hot status

2. When ambient temperature is ±40℃ for electrmotor protection breaker, power on for every pole, inverse time limit characteristic of no temperature compensation is in the following sheet.

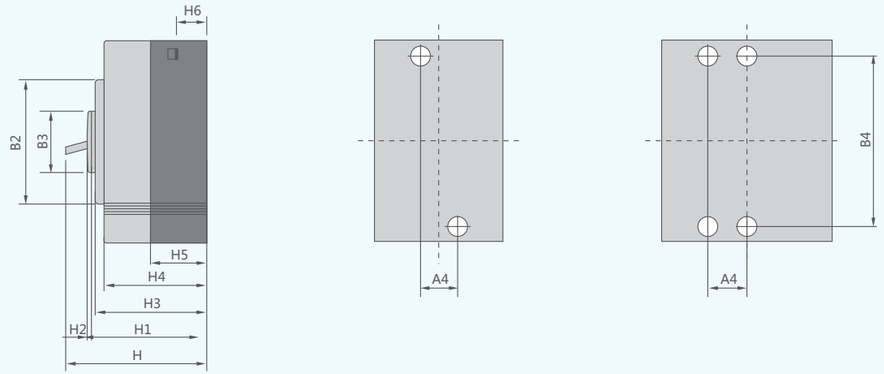
Test current	Current time	Conventional time	Initial status
		In≤800	
Conventional non-trip current	1.0	≥2h	Cold status
Conventional trip current	1.2	<2h	Hot status

3. Action property of the short-circuit release of the breaker
   - Instant trip (for power distribution) I=10In
   - Instant trip (for motor protection) I=12In
   - Current setting accuracy ±20%

Front Connection & Overall



Outline Overall and Installing Dimensions



Moulded case Circuit breaker	Overall dimensions																					Installing dimensions		Bolt
	A		A1		A2		A3		B	B1	B2	B3	B5	B6	H	H1	H2	H3	H4	H5	H6	A4	B4	
	3P	4P	3P	4P	3P	4P	3P	3P																
YCM7-125S	75	100	50	75	-	-	-	-	130	114	85	50	50	-	92	72	4	68	61	41	24	25	111	M8/M6
YCM7-160S	90	120	60	90	-	-	-	-	155	134	103	50	50	-	94	72	4	68	61	41	24	30	132	M8
YCM7-250S	105	140	70	105	-	-	-	-	165	144	103	50	100	-	96	72	4	68	61	46	24	35	126	M8
YCM7-400S	140	185	88	132	140	196	112	168	257	230	179	90	110	43	155	107	5	105	97	64	36	44	194	M10
YCM7-400M	140	185	88	132	140	196	112	168	257	230	179	90	110	43	155	107	5	105	97	64	36	44	194	M10
YCM7-630M	140	185	88	132	140	196	112	168	257	230	179	90	110	42	155	107	5	105	97	64	36	44	194	M10
YCM7-800M	210	280	140	210	180	250	140	210	275	243	192	90	110	87	155	107	5	104	97	65	24	70	242.5	M12

General

YCM7RE Series electronic circuit breaker is suitable for AC 50 Hz, rated voltage 690V, rated working current 800A low voltage power grid.

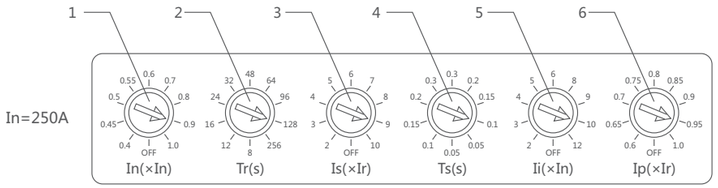
Suitable Working Environment and Installation Condition

1. Altitude less than 2000m
2. Ambient medium temperature is from -50℃ to +40℃ (+45℃ for shipping product)
3. Can withstand humid air
4. Can with stand mold
5. Can withstand nuclear radiation
6. Max inclination is 22.5°
7. It can still work reliably if the product subjects to the normal vibration from ships
8. It can still work reliably if the product subjects to the earthquake (4g)
9. Put in the place where is no explosion danger and conductive dust, can't corrode metal and destroy the insulation.
10. Put in the place where is no sleet.

Features

1. Above MCCB can put accessories such as, UVT, Shunt, Aux, Alarm contact, Motor-driven operation, Mechanism, Rotary handle.
2. Function available as over-load long-time delay, short-circuit time-delay,instant protection.
3. Earth-fault protection, Thermal analog Pre-alarm, indication, Over-current, indication operational current.

Panel and Function



1. Adjustable setting value of rated current IN
2. Adjustable setting value of long time-delay operated TL±
3. Adjustable setting value of short time-delay current Is
4. Adjustable setting value of short time-delay operated time Ts
5. Adjustable setting value of instant current Ii
6. Adjustable setting value of over-load alarm current Ip

Selection Guide

YCM7	RE	-	160	P/3	400	160A	2	A

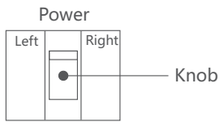
Type	The adjustable type
YCM7	RE
MCCB	RE: Electronic adjustable

Current frame code optional	Operation	Poles
160	P	3
Inm=160 Inm=250 Inm=400 Inm=630 Inm=800	P: Motor-driven Z: Rotation handle W: Direct	3: 3P 4: 4P

Tripping mode and inner accessory	Application	Option for 4P MCCB
400	2	A
The intelligent tripping device Remark: The last two figures means accessory code (see accessories list)	1: Power distribution 2: Motor-protection	A:N pole without protection, ON/OFF without B:N pole without protection, ON/OFF switched Remark: If the customer has no specific requirements, the quadrupole product will be the default for the B class

YCM7RE 3P Accessories Code

Model		YCM7RE-160	YCM7RE-250	YCM7RE-630	YCM7RE-800
No. of poles		3	3	3	3
Code	Accessory name				
308	Alarm contact	●	●	●	●
310	Shunt release	□	□	□	□
320	Auxiliary contact	○	○	○	○
330	Under-voltage release			■	■
340	Shunt auxiliary contact	○ □	○ □	○ □	○ □
360	Two groups auxiliary contacts	○ ○	○ ○	○ ○	○ ○
370	Auxiliary contact UVT			○ ■	○ ■
318	Shunt alarm contact			● □	● □
328	Auxiliary alarm contact	● ○	● ○	● ○	● ○
338	UVT alarm contact			● ■	● ■
348	Shunt auxiliary alarm contact			● ○ □	● ○ □
368	Two groups aux alarm contact			● ○ ○	● ○ ○
378	Aux contact UVT alarm contact			● ○ ■	● ○ ■
380	Two groups aux contact and shunt			○ ○ □	○ ○ □



Accessories connecting wire

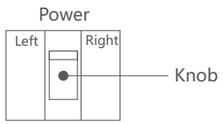
● Alarm contact ○ Aux contact □ Shunt release ■ Under voltage release(UVT)

Remark:

1. Right auxiliary, contact, left shunt, left UVT as options
2. Spec 220, 320, 240, 340, 270, 370 aux contact can be two contacts, need to confirm when ordered.

YCM7RE 4P Accessories Code

Model		YCM7RE-160	YCM7RE-250	YCM7RE-630	YCM7RE-800
No. of poles		4	4	4	4
Code	Accessory name				
308	Alarm contact	●	●	●	●
310	Shunt release	□	□	□	□
320	Auxiliary contact	○	○	○	○
330	Under-voltage release			■	■
340	Shunt auxiliary contact	○ □	○ □	○ □	○ □
360	Two groups auxiliary contacts	○ ○	○ ○	○ ○	○ ○
370	Auxiliary contact UVT			○ ■	○ ■
318	Shunt alarm contact	● □	● □	● □	● □
328	Auxiliary alarm contact	● ○	● ○	● ○	● ○
338	UVT alarm contact			● ■	● ■
348	Shunt auxiliary alarm contact	● ○ □	● ○ □	● ○ □	● ○ □
368	Two groups aux alarm contact	● ○ ○	● ○ ○	● ○ ○	● ○ ○
378	Aux contact UVT alarm contact	● ○ ■	● ○ ■	● ○ ■	● ○ ■
380	Two groups aux contact and shunt	○ ○ □	○ ○ □	○ □ ○	○ □ ○



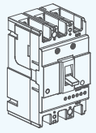
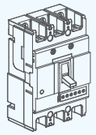
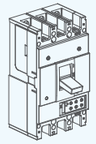
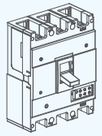
Accessories connecting wire

● Alarm contact ○ Aux contact □ Shunt release ■ Under voltage release(UVT)

Remark:

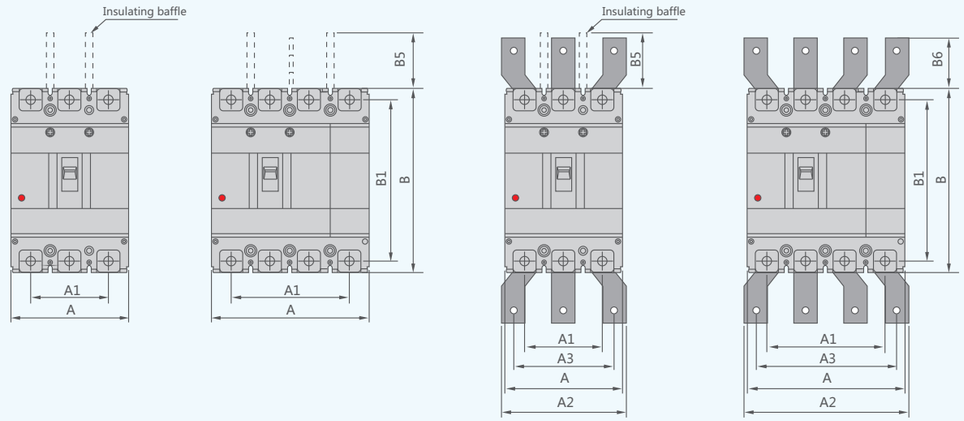
1. Right auxiliary, contact, left shunt, left UVT as options
2. Spec 220, 320, 240, 340, 270, 370 aux contact can be two contacts, need to confirm when ordered.

Technical Data

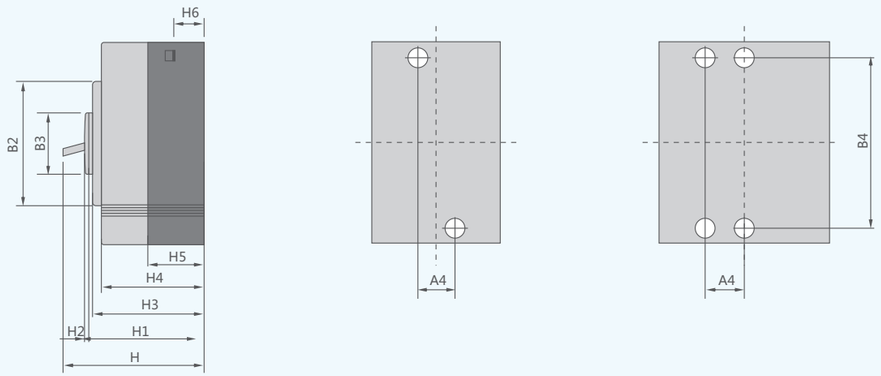
Type		YCM7RE-160	YCM7RE-250	YCM7RE-400/630	YCM7RE-800
Frame(A)		160	250	400 630	800
Number of poles		3,4	3,4	3,4	3,4
Products					
Rate current adjustable range(A)		16-32, 40-100, 64-160	100-250	160-400, 252-630	252-630, 320-800
Rated voltage Ue(V)		AC400V	AC400V	AC400V	AC400V
Rated insulation voltage Ui(V)		AC690V	AC690V	AC690V	AC690V
Short-circuit breaking capacity Icu/1cs(kA)	AC400V	35/25	35/25	50/35	50/35
Operation life (cycle)	ON	1500	1000	1000	1000
	OFF	8500	7000	4000	1500
Motor-driven operation		•	•	•	•
External rotary handle		•	•	•	•
Automatic tripping device		Electronic type	Electronic type	Electronic type	Electronic type

• Means accessory as option

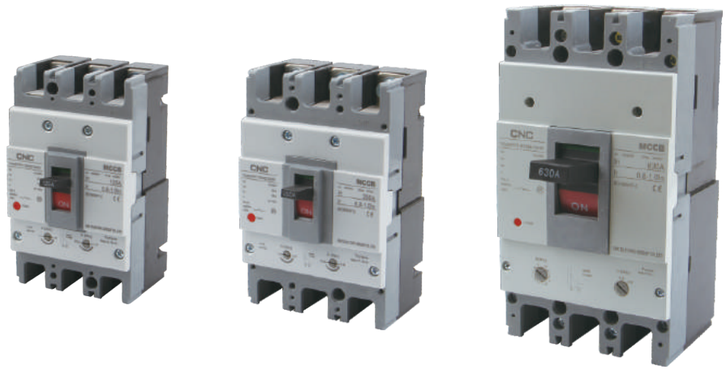
Front Connection & Overall



Front Connection & Overall



Thermal magnetic trip circuit breaker	Overall dimensions																			Installing dimensions		Bolt
	A		A1		A2		A3		B	B1	B2	B3	B5	B6	H	H1	H2	H3	H4	H5	H6	A4	B4	
	3P	4P	3P	4P	3P	4P	3P	3P																
YCM7RE-160M	90	120	60	90	-	-	-	-	155	134	102	50	50	-	109	83	4	68	61	20.7	24	30	132	M8
YCM7RE-250M	105	140	70	105	-	-	-	-	165	144	102	50	100	-	120	91	4	68	61	45	24	35	126	M8
YCM7RE-400M	140	185	88	132	140	196	112	168	257	230	179	90	110	42	155	107	5	105	97	45	36	44	194	M10
YCM7RE-630M	140	185	88	132	140	196	112	168	257	230	179	90	110	42	155	107	5	105	97	45	36	44	194	M10
YCM7RE-800M	210	280	140	210	180	250	140	210	275	243	192	90	110	87	155	107	5	104	97	15	24	70	243	M12



Selection Guide

YCM7 | RT | - | 160 | M | Z | / | 3 | 300 | 2 | A | Q1 | D | Q | 2

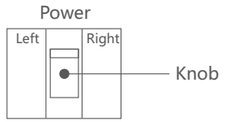
Type	The adjustable type	Frame	Breaking capacity ICU/ICS(kA)	Operation
YCM7	RT	160	M	Z
MCCB	RT: Therm-mag T/A: Therm/Mag	160, 250, 630, 800 Remark: 160 Frame upgrade from 125 250 Frame upgrade from 225 630 Frame upgrade from 400	S M 160 25/18 250 25/18 400 35/25 50/35 630 50/35 800 50/35	P: Motor-driven Z: Rotary handle W: Direct ①: Motor-driven operation DC1, DC3

Poles	Tripping mode and inner accessory	Rated current(A)	Application
3	300	160	2
2: 2P 3: 3P 4: 4P	First figure means tripping way 2: Only with magnetic release 3: Thermal release+,magnetic release body Remark: The last two figures means accessory code (see accessories list)	160 50-63, 63-80, 80-100, 100-125, 125-160 250 100-125, 125-160, 160-200, 200-250 400 200-250, 250-320, 320-400 630 400-500, 500-630 800 500-630, 630-800	1. Power distribution 2. Motor-protection

Option for 4P MCCB	Accessory voltage	Motor-driven operation voltage	Connection	Connection plate
A	Q1	D	Q	2
A: N pole without protection, ON/OFF without B: N pole without protection, ON/OFF switched	UVT Q1: AC220V Q2: AC240V Q3: AC380V Q4: AC415V Shunt F1: AC220V F2: AC380V F3: DC110V F4: DC24V J1: AC125V J2: AC250V J3: DC125 J4: DC24V	DC1 D1: AC220V D2: AC230V D3: AC380V D4: AC400V DC3 D5: AC220V D6: AC110V D7: DC220V D8: DC110V D9: AC110~240V D10: DC100~220V Remark: DC1, DC3 motor-driven operation voltage see extenal accessories table.	Q: Front H: Rear C: Plug-in	1: W/O 2: W

Inner Accessories

Model		YCM7T/A-160 YCM7RT-160		YCM7T/A-250 YCM7RT-250		YCM7T/A-400/630 YCM7RT-400/630	YCM7T/A-800 YCM7RT-800
Breaking capacity		S		S		S,M	M
No. of poles		3	4	3	4	3,4	3,4
Code	Accessory name						
208, 308	Alarm contact	●	●	●	●	●	●
210, 310	Shunt release	■	■	■	■	■	■
220, 320	Auxiliary contact	○	○	○	○	○	○
230, 330	Under-voltage release	■		■		■	■
240, 340	Shunt auxiliary contact	○ ■	■ ○	○ ■	■ ○	○ ■	○ ■
260, 360	Two groups auxiliary contacts	○○	○○	○○	○○	○○	○○
270, 370	Auxiliary contact UVT	○ ■		○ ■		○ ■	○ ■
218, 318	Shunt alarm contact	● ■		● ■		● ■	● ■
228, 328	Auxiliary alarm contact	● ○	● ○	● ○	● ○	● ○	● ○
238, 338	UVT alarm contact	● ■		● ■		● ■	● ■
248, 348	Shunt auxiliary alarm contact	● ○ ■		● ○ ■		● ○ ■	● ○ ■
268, 368	Two groups aux alarm contact	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○
278, 378	Aux contact UVT alarm contact	● ○ ■		● ○ ■		● ○ ■	● ○ ■
280, 380	Two groups aux contact and shunt	○○ ■		○○ ■		○○ ■	○○ ■

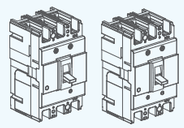
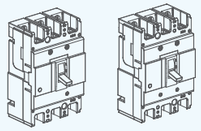
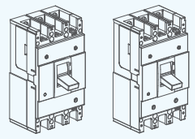


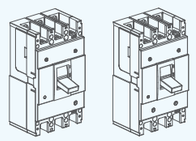
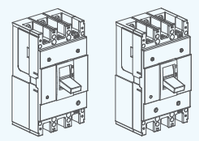
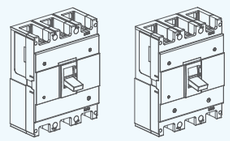
→ Accessories connecting wire

● Alarm contact ○ Aux contact □ Shunt release ■ Under voltage release(UVT)

Remark:
1. Right auxiliary, contact, left shunt, left UVT as options
2. Spec 220, 320, 240, 340, 270, 370 aux contact can be two contacts, need to confirm when ordered.

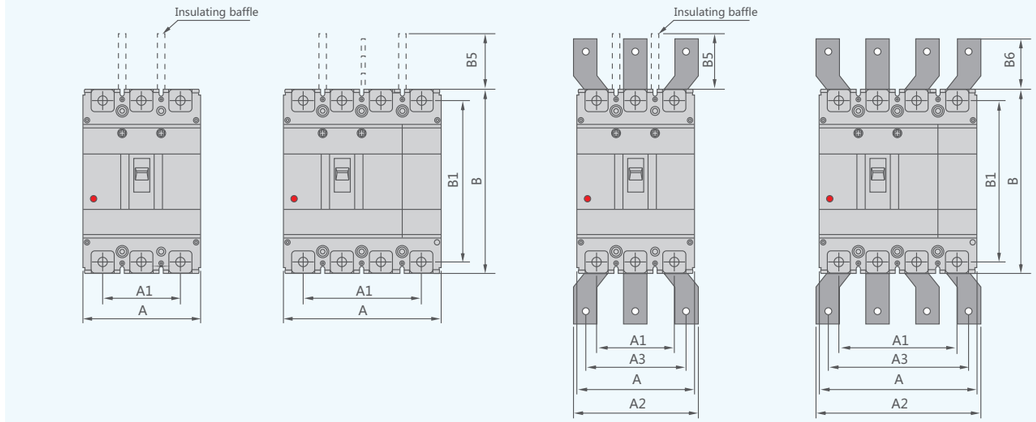
Technical Data

Type		YCM7T/A-160S YCM7RT-160S	YCM7T/A-250S YCM7RT-250S	YCM7T/A-400S YCM7RT-400S
Frame(A)		160	250	400
Number of poles		3,4	3,4	3,4
Products				
Rate current adjustable range(A)		50-63,63-80,80-100, 100-125,125-160	100-125,125-160, 160-200,200-250,	200-250,250-320, 320-400
Rated voltage Ue(V)		AC400V	AC400V	AC400V
Rated insulation voltage Ui(V)		AC690V	AC690V	AC690V
Short-circuit breaking capacity Icu/1cs(kA)	AC400V	25/18	25/18	35/25
Operation life (cycle)	ON	3000	3000	2000
	OFF	7000	7000	4000
Motor-driven operation		•	•	•
External rotary handle		•	•	•
Automatic tripping device		Thermal-magnetic	Thermal-magnetic	Thermal-magnetic

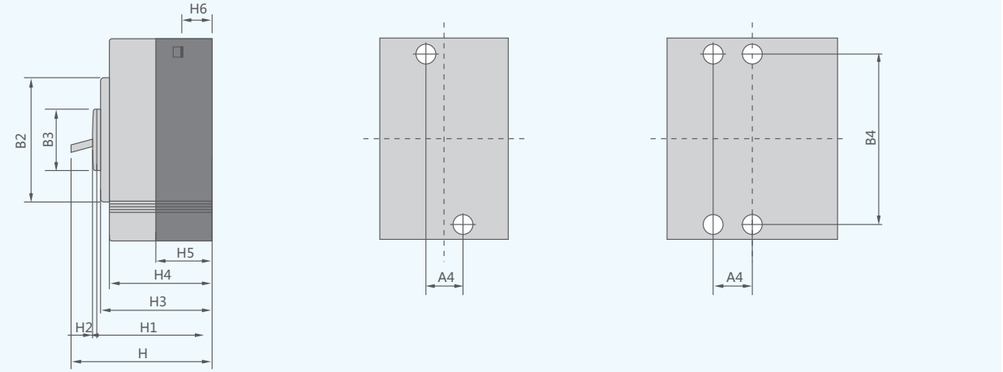
Type		YCM7T/A-400M YCM7RT-400M	YCM7T/A-630M YCM7RT-630M	YCM7T/A-800M YCM7RT-800M
Frame(A)		400	630	800
Number of poles		3,4	3,4	3,4
Products				
Rate current adjustable range(A)		200-250,250-320, 320-400	400-500,500-630	500-630,630-800
Rated voltage Ue(V)		AC400V	AC400V	AC400V
Rated insulation voltage Ui(V)		AC690V	AC690V	AC690V
Short-circuit breaking capacity Icu/1cs(kA)	AC400V	50/35	50/35	50/35
Operation life (cycle)	ON	2000	2000	1500
	OFF	4000	4000	4000
Motor-driven operation		•	•	•
External rotary handle		•	•	•
Automatic tripping device		Thermal-magnetic	Thermal-magnetic	Thermal-magnetic

• Accessory as option

Front Connection & Overall



Outline Overall and Installing Dimensions



Thermal magnetic trip circuit breaker	Thermal adjustable circuit breaker	Overall dimensions																					Installing dimensions		Bolt
		A		A1		A2		A3		B	B1	B2	B3	B5	B6	H	H1	H2	H3	H4	H5	H6	A4	B4	
		3P	4P	3P	4P	3P	4P	3P	3P																
YCM7RT-160S	YCM7T/A-160S	90	120	60	90	-	-	-	-	155	134	103	50	50	-	94	72	4	68	61	41	24	30	132	M8
YCM7RT-250S	YCM7T/A-250S	105	140	70	105	-	-	-	-	165	144	103	50	100	-	96	72	4	68	61	46	24	35	126	M8
YCM7RT-400S	YCM7T/A-400S	140	185	88	132	140	196	112	168	257	230	179	90	110	43	155	107	5	105	97	64	36	44	194	M10
YCM7RT-400M	YCM7T/A-400M	140	185	88	132	140	196	112	168	257	230	179	90	110	43	155	107	5	105	97	64	36	44	194	M10
YCM7RT-630M	YCM7T/A-630M	140	185	88	132	140	196	112	168	257	230	179	90	110	42	155	107	5	105	97	64	36	44	194	M10
YCM7RT-800M	YCM7T/A-800M	210	280	140	210	180	250	140	210	275	243	192	90	110	87	155	107	5	104	97	65	24	70	242.5	M12

Model & Explanation

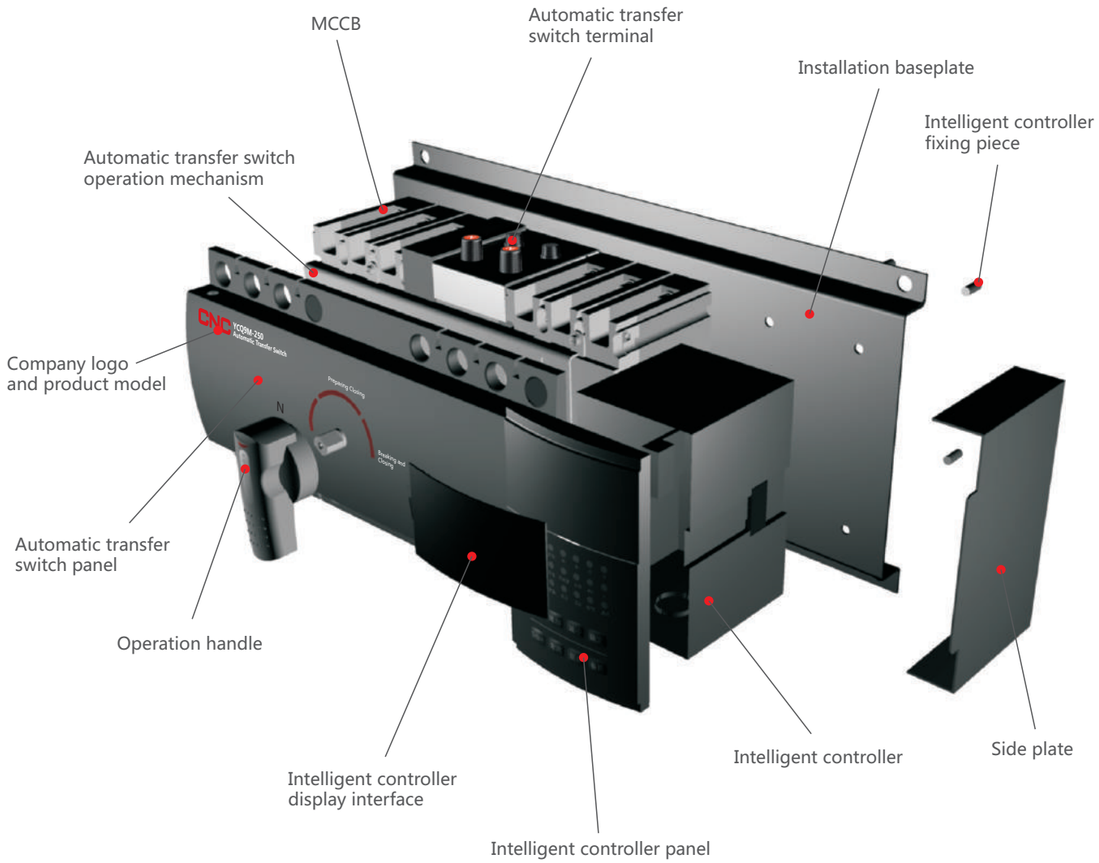
YC Q 9 M - □ □ / □ TM □

- A. Integrated type B. Split type
- Release Code:
  TM: Thermal magnetic type distribution protection
- Poles: 3P, 4P
- Breaking capacity
- Frame Current
- Moulded case circuit breaker
- Design number
- Automatic transfer switch
- CNC

Product Overview

1. Ensure un-interruptible service of critical electric power
   When over-voltage, under-voltage or phase break occur to a power supply, it will automatically switch over to another power supply or start the electric generator. It is mainly used in hospital, shopping mall, bank, hotel, high buildings and fire control where long time power disconnection is not allowed and ceaseless power supply is needed.
2. Full automatic power supply changeover system
   It is equipped with three changeover methods including automatic connection and automatic changeover, automatic connection and non-automatic changeover, reserve for each other., and two service modes including power grid-power grid, power grid-electricity generator, in order to satisfy different power changeover requirement.
3. Intelligent
   It has communication interface with built-in RS485, and has two kinds of communication agreement including MODBUS-RUS and electric meter 1997, which can realize real time data upload, distance data configuration and condition monitor, and can achieve the function of telecom, telemetering, remote control, and remote regulating. Remote vision can be achieved through matching intelligent power distribution system.
4. Safe and reliable, and have fire control linkage function
   When fire disaster occurs to no fire control load, fire protection control center can send signal to intelligent controller, cut off double power supply, ensure fire disaster load to break.

YCQ9 Explosion Drawing Instruction



Main Technical Parameter

Frame	63	125	250	400	630
Rated working current(A)	16, 25, 32 40, 50, 63	16, 25, 32, 40 50, 63, 80, 100 125	100, 125, 140 160, 180, 200 225, 250	225, 250, 315 350, 400	400, 500, 630
Rated impulse withstand voltage	8kV				
Rated working voltage(V)	400				
Rated short-circuit making capacity (kA)	52.5	63	73.5	105	105
Rated short-circuit breaking capacity (kA)	25	30	35	50	50
Using category	AC33iB				
Electric level	CB level				
Certification	CCC				

Function Introduction

Function	Basic type	Multifunction type	Full-function type
Manual mode	■	■	■
Automatic mode	■	■	■
Motor protection function	■	■	■
Main contact working position (performing circuit breaker)			
Frequently-used power supply closed	■	■	■
Reserve power supply closed	■	■	■
Double portion	■	■	■
Automatic control			
Frequently-used power supply indication	■	■	■
Reserve monitoring power supply	■	■	■
Automatic connection and automatic changeover	■	■	■
Automatic connection and non-automatic changeover	no	■	■
Reserve for each other	■	■	■
Power grid-power grid	■	■	■
Power grid-generate electricity	no	■	■
Phase break instantaneous protection	■	■	■
Under-voltage protection 150-210V	adjustable	adjustable	adjustable
Over-voltage protection 230-280V	■	■	■
Voltage loss protection30% Ue	■	■	■
Fire control function	no	■	■
Changeover time delay 0-100s continuous adjustable	■	■	■
Returning time delay 0-100s continuous adjustable	■	■	■
Frequency protection	no	no	■
Communication function	no	no	■
Indication			
Closed/open/double portion indication	■	■	■
Frequent-use power supply indication	■	■	■
Reserve power supply indication	■	■	■
Fault tripping indication	■	■	■
Parameter setting indication	■	■	■
Voltage real time indication	■	■	■
Normal three phase voltage protection	three phase	three phase	three phase
Reserve three phase voltage protection	three phase	three phase	three phase

Life(N-R-N circle) and Specifications of Automatic Transfer Switch

Table 1

Model number	YCQ9M-63~250	YCQ9M-400	YCQ9M-630
Electrical life (t)	1000	1000	1000
Mechanical life (t)	5000	3000	2000
Total life (t)	6000	4000	3000
Rated duty	uninterrupted duty		
Under-voltage switching setpoint	180~210V		
Over-voltage switching setpoint	230~280V		
Contacts switching time	≤3s		
Switching return delay time	0.1~99.9s(Adjustable)		

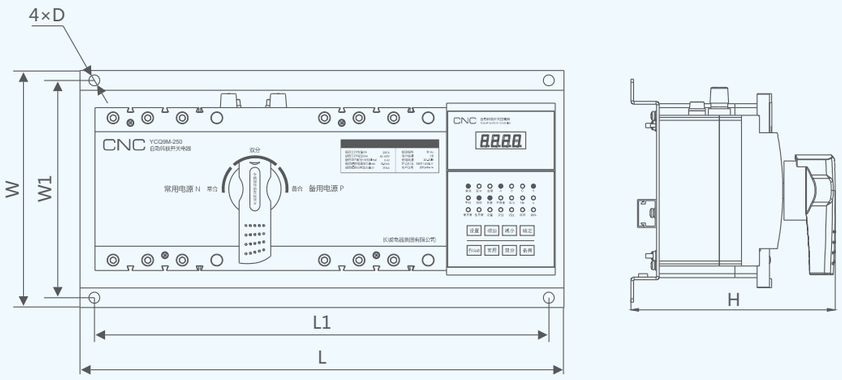
Main Technical Parameter of Automatic Transfer Switch

Table 2

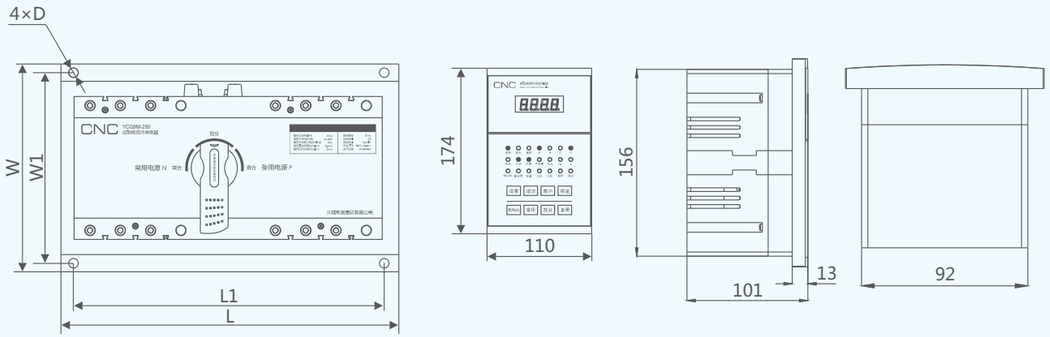
Specifications	Execution breaker	Rated current (A)	Rated voltage (V)	Rated impulse withstand voltage (kV)	Rated short-circuit making capacity (kA)	Rated short-circuit breaking capacity (kA)
63M/3P	YCM1-63M/3P	16/25/32/40/50/63	400	8	52.5	25
63M/4P	YCM1-63M/4P					
125M/3P	YCM1-125M/3P	16/25/32/40/50 63/80/100/125			63	30
125M/4P	YCM1-125M/4P					
250M/3P	YCM1-250M/3P	100/125/140/160 180/200/225/250			73.5	35
250M/4P	YCM1-250M/4P					
400M/3P	YCM1-400M/3P	225/250/315 350/400			105	50
400M/4P	YCM1-400M/4P					
630M/3P	YCM1-630M/3P	400/500/630			105	50
630M/4P	YCM1-630M/4P					

Main Technical Parameter of Automatic Transfer Switch

Overall and mounting dimensions of integrated type



Overall and mounting dimensions of split type



Mounting hole 158×94

Specifications	Overall and mounting dimensions of integrated type						Overall and mounting dimensions of split type					
	L	L1	W	W1	H	D	L	L1	W	W1	H	D
63/3	440	406	200	180	183.5	10	336	307	200	180	183.5	10
63/4	440	406	200	180	183.5	10	336	307	200	180	183.5	10
125/3	460	425	200	180	190	10	360	325	200	180	190	10
125/4	460	425	200	180	190	10	360	325	200	180	190	10
250/3	490	455	220	200	207	10	386	351	220	200	207	10
250/4	490	455	220	200	207	10	386	351	220	200	207	10
400/3	630	596	310	280	239	13	520	486	310	280	239	10
400/4	630	596	310	280	239	13	520	486	310	280	239	13
630/3	740	705	350	320	244	13	630	595	350	320	244	13
630/4	740	705	350	320	244	13	630	595	350	320	244	13