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MINIATURE CIRCUIT BREAKER

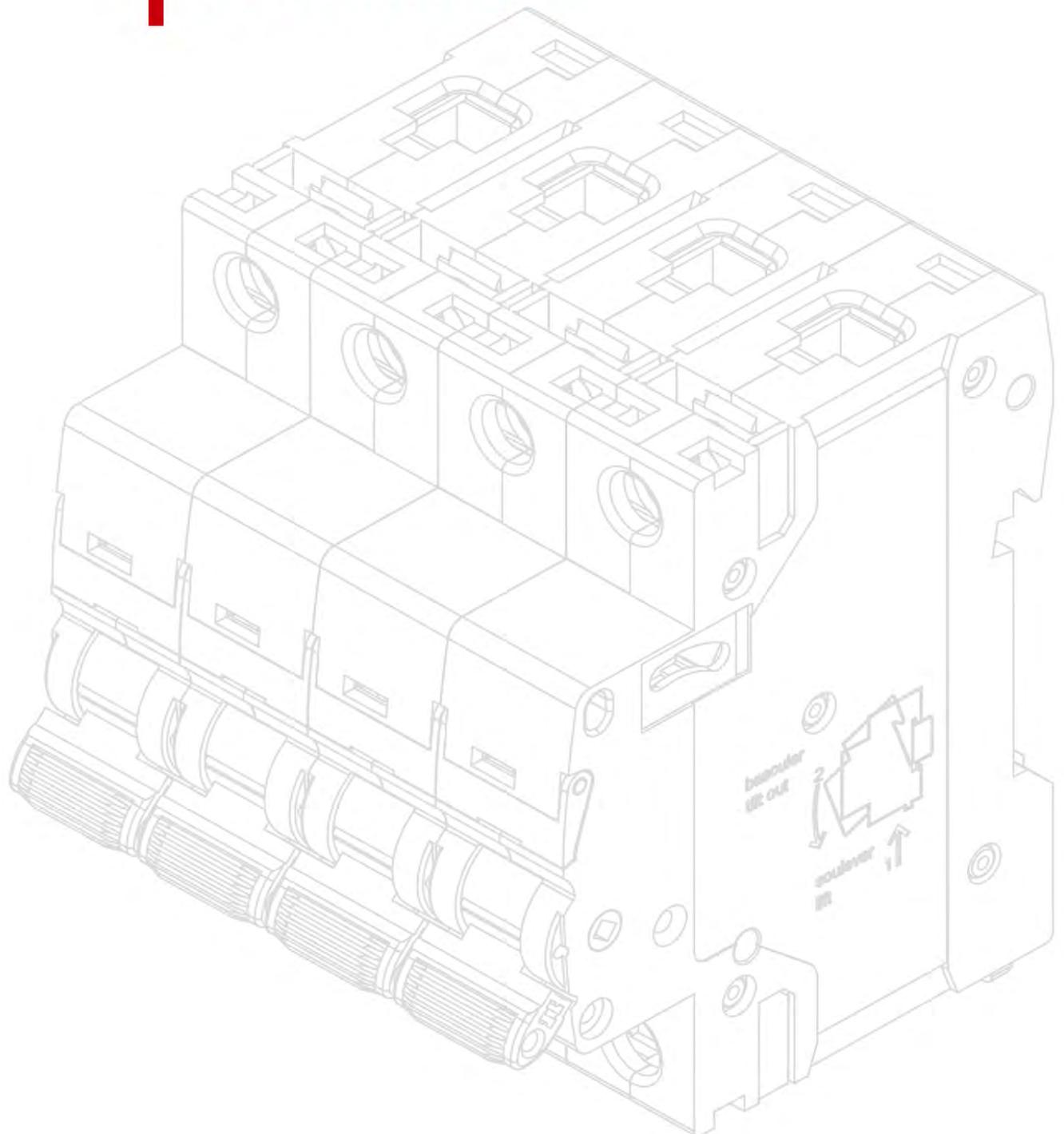


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measuring instruments

MINIATURE CIRCUIT BREAKER



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Miniature Circuit Breaker

IEC60898-1, GB10963.1

RYM8 MCB

Scope of application

RYM8 miniature circuit breaker is suitable for AC 50/60Hz, rated voltage 240V/415V, rated current up to 63A for overload and short circuit protection, and can also be used for infrequent operation conversion of the line under normal conditions. It is suitable for terminal distribution lines in commercial office buildings, residential buildings and general industrial use.

Compliant with standards: IEC60898-1, GB10963.1, and obtained CE, BV and other certifications.

Product Features: double busbars, transparent logo, self-designed appearance patent.



Technical Parameter

Electrical Characteristics

Poles	(In)	(Ue)	Rated insulation voltage (Ui)	Rated frequency	Dielectric test voltage	Trip method
1P、2P、3P、4P	1~63A	240/415V	500V	50/60Hz	2000V/1min	Thermal magnetic trip
Rated impulse withstand voltage (Uimp)	Rated breaking capacity (Icn)	Operating breaking capacity (Ics)	Thermo-magnetic release characteristic			
			B:(3~5)In	C:(5~10)In	D:(10~16)In	
4kV	4.5kA	4.5kA	■	■	■	

Mechanical properties

Mechanical life	Electric life		Protection class		Reference temperature for setting of thermal element	Ambient temperature	Storage temperature
	240/h(≤below 32A)	120/h (>32A)	Direct install	Installed in distribution box			
10000	10000 (≤20A)	4000 (>20A)	Ip20	Ip40	30°C	-25°C+40°C	-25°C+60°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection	Assemblable accessories
Wire	Cord/Hoop Terminals					
1-25mm ²	1-16mm ²	■	—	■	Top and bottom	■

RYM9 MCB

Scope of application

RYM9 miniature circuit breaker is suitable for AC 50/60Hz, rated voltage 230V/400V, rated current up to 63A for overload and short circuit protection, and can also be used for infrequent operation conversion of the line under normal conditions.

It is suitable for terminal distribution lines in commercial office buildings, residential buildings and general industrial use.

Compliant with standards: IEC60898-1, GB10963.1

Product Features: double busbars, transparent label, quick closing function and self-designed appearance patent



Technical Parameter

Electrical Characteristics

Poles	(In)	(Ue)	Rated insulation voltage (Ui)	Rated frequency	Dielectric test voltage	Trip method
1P, 2P, 3P, 4P	1~63A	240/415V	500V	50/60Hz	2000V/1min	Thermal magnetic trip
Rated impulse withstand voltage (Uimp)	Rated breaking capacity (Icn)	Operating breaking capacity (Ics)	Thermo-magnetic release characteristic			
			B:(3~5)In	C:(5~10)In	D:(10~16)In	
4kV	6kA	6kA	■	■	■	

Mechanical properties

Mechanical life	Electric life		Protection class		Reference temperature for setting of thermal element	Ambient temperature	Storage temperature
	240/h(≤below 32A)	120/h(>32A)	Direct install	Installed in distribution box			
20000	10000 (≤20A)	6000 (>20A)	Ip20	Ip40	30°C	-25°C+40°C	-25°C+0°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection	Assemblable accessories
Copper/Hard Wire	Cord/Hoop Terminals					
1-25mm ²	1-16mm ²	■	—	■	Top and bottom	■

Miniature Circuit Breaker

RYM9H MCB

Scope of application

RYM9H high breaking small circuit breaker is suitable for AC 50/60Hz, rated voltage 240V/415V, rated current up to 63A for overload and short circuit protection, and it can also be used for infrequent operation conversion of lines under normal conditions.

It's suitable for terminal distribution lines in commercial office buildings, residential and general industrial use.

Compliant with : IEC60898-1, GB10963.1, and obtained CE, CB, BV and other certifications.



Technical Parameter

Electrical Characteristics

Poles	(In)	(Ue)	Rated insulation voltage (Ui)	Rated frequency	Dielectric test voltage	Trip method
1P, 2P, 3P, 4P	1~63A	240/415V	500V	50/60Hz	2000V/1min	Thermal magnetic trip
Rated impulse withstand voltage (Uimp)	Rated breaking capacity (Icn)	Operating breaking capacity (Ics)	Thermo-magnetic release characteristic			
			B:(3~5)In	C:(5~10)In	D:(10~16)In	
4kV	10kA	7.5kA	■	■	■	

Mechanical properties

Mechanical life	Electric life		Protection class		Reference temperature for setting of thermal element	Ambient temperature	Storage temperature
	240/h(≤below 32A)	120/h(>32A)	Direct install	Installed in distribution box			
20000	20000 (≤20A)	6000 (>20A)	Ip20	Ip40	30°C	-25°C+60°C	-25°C+70°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection	Assemblable accessories
Wire	Cord/Hoop Terminals					
1-25mm ²	1-16mm ²	■	—	■	Top and bottom	■

RYM9H-Z MCB

Scope of application

RYM9H-Z DC circuit breaker is used for DC voltage up to 600V, rated current up to 63A for overload and short circuit protection, and it can also be used for infrequent operation and conversion of the line. The circuit breaker is used in DC panels, energy storage devices, etc. DC non-polar applications.

Compliant with: GB 14048.2, IEC 60947-2, IEC 60947-2 Annex P

Product Features: double busbars, transparent logo, quick closing function and independent appearance patent.



Technical Parameter

Electrical Characteristics

Poles	Rated current (In)	Rated voltage (Ue)			
		1P	2P	3P	4P
1P、2P 3P、4P	1~63A	48、60、125、 150V DC	110、125、250、 300V DC	450V DC	600V DC
Rated impulse withstand voltage (Uimp)	Rated breaking capacity (Icn)	Operating breaking capacity (Ics)	Trip method	Thermo-magnetic release characteristic	
				B	C
6kV	6kA	6kA	Thermal magnetic trip	5.5In±20%	8.5In±20%

Mechanical properties

Mechanical life	Electric life		Protection class		Reference temperature for setting of thermal element	Ambient temperature	Storage temperature
	240/h(≤below 32A)	120/h (>32A)	Direct install	Installed in distribution box			
20000	2500 (≤20A)	1500 (>20A)	Ip20	Ip40	30°C	-25°C+60°C	-25°C+70°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification
Copper/Hard Wire	Cord/Hoop Terminals			
1-25mm ²	1-16mm ²	■	—	■

Miniature Circuit Breaker

IEC60898-1, GB10963.1

RYM9N MCB

Scope of application

RYM9N miniature circuit breaker is mainly used for overload and short circuit protection in AC voltage 50 Hz / 60 Hz, rated voltage 240 V, and rated current up to 40A. It can also be used for normal switching operations with infrequent switching. It's suitable for various places such as industrial, commercial, high-rise and residential buildings.

Compliant with: IEC60898-1, GB10963.1



Technical Parameter

Electrical Characteristics						
Poles	Rated current (In)	Rated voltage (Ue)	Rated insulation voltage (Ui)	Rated frequency	Dielectric test voltage	Trip method
1P+N	6~40A	240V	400V	50/60Hz	2000V/1min	Thermal magnetic trip
Rated impulse withstand voltage (Uimp)	Rated breaking capacity (Icn)	Operating breaking capacity (Ics)	Thermo-magnetic release characteristic			
			B:(3~5)In	C:(5~10)In	D:(10~16)In	
4kV	6kA	6kA	■	■	■	

Mechanical properties						
Mechanical life	Electric life	Protection class		Reference temperature for setting of thermal element	Ambient temperature	Storage temperature
		Direct install	Installed in distribution box			
10000	4000	Ip20	Ip40	30°C	-25°C+60°C	-25°C+70°C

Other characteristics						
Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection	Assemblable accessories
Copper/Hard Wire	Cord/Hoop Terminals					
1-16mm ²	1-10mm ²	■	—	■	Top and bottom	■

RYM9-125 MCB

Scope of application

RYM 9-125 miniature circuit breaker is suitable for AC 50/60Hz, rated voltage 240V/415V, rated current up to 125A for overload and short circuit protection, and it can also be used for infrequent operation of the line under normal conditions for conversion.

It's suitable for terminal distribution lines in commercial office buildings, residential and general industrial use.

Compliant with: IEC60898-1, GB10963.1



Technical Parameter

Electrical Characteristics

Poles	Rated current (In)	Rated voltage (Ue)	Rated insulation voltage (Ui)	Rated frequency	Dielectric test voltage	Trip method
1P, 2P 3P, 4P	40, 63, 80 100, 125A	240/415V	500V	50/60Hz	2000V/1min	Thermal magnetic trip
Rated impulse withstand voltage (Uimp)	Rated breaking capacity (Icn)	Operating breaking capacity (Ics)	Thermo-magnetic release characteristic			
4kV	6kA	6kA	C: (5~10) In		D:(10~16In)	

Mechanical properties

Mechanical life	Electric life		Protection class		Reference temperature for setting of thermal element	Ambient temperature	Storage temperature
	240/h(≤below 32A)	120/h (>32A)	Direct install	Installed in distribution box			
10000	4000	2000 (>20A)	Ip20	Ip40	30°C	-25°C+70°C	-25°C+70°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection	Assemblable accessories
Copper/Hard Wire	Cord/Hoop Terminals					
1-50mm ²	1-35mm ²	■	—	—	Top and bottom	■

Isolating Circuit Breaker

RYP8 Isolator

Scope of application

RYP8 isolator is suitable for AC 50/60Hz, rated current up to 125A, rated voltage one pole 240V, two, three and four poles 415V power distribution and control circuit. It is mainly used as the main switch in terminal combination appliances, and can also be used for the isolation of infrequently connecting and breaking circuits and lines.

It's widely used in infrastructure, electricity, construction, industry, data center, and other industries.

Compliant with : IEC60947-3, GB14048.3, and obtained CE, CB and Semko.



Technical Parameter

Electrical Characteristics

Poles	Rated current (In)	Rated voltage (Ue)	Rated insulation voltage (Ui)	Rated frequency	Dielectric test voltage	
1P, 2P 3P, 4P	32, 63, 80 100, 125A	240/415V	690V	50/60Hz	2000V/1min	
Rated impulse withstand voltage (Uimp)		Rated short-time making capacity(Icm)		Rated short-time withstand current (IcW)		Use category
6kV		20Ie/1s		12Ie/1s		AC-22A

Mechanical properties

Mechanical life	Electric life		Protection class		Reference temperature for setting of thermal element	Ambient temperature	Storage temperature
	≤below 63A	63A and above	install	Installed in distribution box			
20000	2500	1500	Ip20	Ip40	30°C	-25°C+60°C	-25°C+70°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection
Copper/Hard Wire	Cord/Hoop Terminals				
1-50mm ²	1-35mm ²	■	—	■	Top and bottom

Leakage Circuit Breaker

RYL8 RCCB

Scope of application

RYL8 residual current circuit breaker (without overcurrent protection) is suitable for AC 50Hz, rated voltage 240V for two poles, 415V for four poles, and rated current up to 63A. It can quickly cut off the fault power in very short time,

To protect the safety of people and electrical equipment, it can also be used for infrequent switching of lines.

Compliant with : IEC61008-1, GB16916.1, CE, CB marked.



Technical Parameter

Electrical Characteristics

Classification		Protection type		Poles	Rated current (In)	Rated sensitivity (I Δ n)	Sensitivity		Rated voltage (Ue)
AC	A						Instantaneous	Delayed	
■	■	■	■	1P+N,3P+N	25, 40, 63A	10, 30, 100, 300mA	■	■	1P+N:240V~ 3P+N:415V~
Rated insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated residual making and breaking capacity I Δ m	Short-circuit current Inc=I Δ c	Rated residual non-operating current	Break time(Instantaneous)			
500V	50/60Hz	4kV	500A (below 63A) 10In(63A and above)	6kA	0.5I Δ n	residual current I Δ =1I Δ n	residual current I Δ =2I Δ n	residual current I Δ =5I Δ n	
						0.1s	0.08s	0.04s	

Mechanical properties

Mechanical life /Electric life	Protection class		Ambient temperature	Storage temperature
	Direct install	in distribution box		
4000	Ip20	Ip40	-25°C+40°C	-25°C+60°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification
Copper/Hard Wire	Cord/Hoop Terminals			
1-35mm ²	1-25mm ²	—	—	—

Leakage Circuit Breaker

IEC61008-1,GB16916.1

RYL9 RCCB

Scope of application

RYL9 residual current circuit breaker (without overcurrent protection) is suitable for AC 50Hz, rated voltage 240V for two poles, 415V for four poles, and rated current up to 80A. It can quickly cut off the fault power in a very short time,

To protect the safety of people and electrical equipment, it can also be used for infrequent switching of lines.

It's suitable for terminal distribution lines in commercial office buildings, residential and general industrial use.

Compliant with: IEC61008-1, GB16916.1



Technical Parameter

Electrical Characteristics									
AC		Protection type		Poles	Rated current (In)	Rated sensitivity (I Δ n)	Sensitivity		Rated voltage (Ue)
	A						Instantaneous	Delayed	
■	■	■	■	1P+N,3P+N	25, 40, 63, 80A	10, 30, 100, 300mA	■	■	1P+N:240V~ 3P+N:415V~
Rated insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated residual making and breaking capacity I Δ m	Short-circuit current Inc=I Δ c	Rated residual non-operating current	Break time(Instantaneous)			
500V	50/60Hz	4kV	500A (below 63A) 10In(63A and above)	10kA (below 63A) 10kA(63A and above)	0.5I Δ n	Residual current I Δ =1I Δ n	Residual current I Δ =2I Δ n	Residual current I Δ =5I Δ n	
						0.1s	0.08s	0.04s	

Mechanical properties				
Mechanical life /Electric life	Protection class		Ambient temperature	Storage temperature
	Direct install	In distribution box		
4000	Ip20	Ip40	-25°C+60°C	-25°C+70°C

Other characteristics						
Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection	Assemblable accessories
Copper/Hard Wire	Cord/Hoop Terminals					
1-35mm ²	1-25mm ²	—	■	—	Top and bottom(ELM) Top line(ELE)	—

RYL9-B RCCB

Scope of application

RYL9-B residual current operated circuit breaker is suitable for AC 50Hz, rated voltage 240V for two poles, 415V for four poles, rated current up to 63A, used to detect AC leakage, pulsating DC leakage, smooth DC leakage, compound wave leakage and high frequency leakage current up to 1kHz. When people come to electric shock or the leakage current of the circuit exceeds the specified value, it automatically cuts off the faulty power supply in a very short time to protect the safety of people and electrical equipment. It can also be used for infrequent switching operations in normal condition.

Compliant with: IEC62423,IEC61008-1,GB22794,GB16916.1



Technical Parameter

Electrical Characteristics

Classification	Application		Poles	Rated current (In)	Rated sensitivity (I Δ n)	Rated Voltage (Ue)
B	Electric car charging station, charging pile	Equipment circuit controlled by three-phase inverter	1P+N,3P+N	25, 40, 63, 80A	30, 100, 300mA	1P+N:240V~ 3P+N:415V~
Rated Insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated short-circuit current Inc=rated residual short circuit current Δ I m	Rated residual connecting and breaking capacity Inc=I Δ c	Rated residual non-operating current	
500V	50/60Hz	4kV	500A (63A below) 10In (63A and above)	6kA	0.5I Δ n	

Mechanical properties

Mechanical life /electrical life	Protection class		Working ambient temperature	Storage temperature
	Installed directly	Installed in the distribution box		
4000	Ip20	Ip40	-25°C+60°C	-25°C+70°C

Other characteristics

Wiring size		Contact status Indication	Fault Indication	Circuit identification
1-35mm ²	1-25mm ²	—	■	—

Leakage Circuit Breaker

IEC62955, IEC61008.1

RYL9 A+EV RCCB

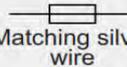
Scope of application

RYL9 type A+EV leakage current circuit breaker is suitable for protection of AC facilities with charging mode 3, DC leakage current of more than 6mA . when there is a residual fault current of more than 6mA in the system, it can automatically cuts off the fault power in very short time.

It is used to detect the DC residual current greater than 6mA in the AC system. According to the IEC61851 standard, it should be used with the RCD with type A residual current protection characteristics, which provides protection against possible ground faults.



Technical Parameter

Electrical features							
Residual current operating type	Rated current (In)	Poles	Rated voltage	Insulation voltage (Ui)	Rated frequency	Rated sensitivity (IΔn)	DC current operating sensitivity IΔnc
A+EV	25, 40, 63A	2P, 4P	240/415V	500V	50/60Hz	30mA	6mA
Rated short-circuit current Inc	Rated limited short-circuit current IΔc	segment capacity Im	Rated switch-on segment capacity IΔm	Matching silver wire	Rated impulse withstand voltage (1.2/50)	test voltage	Pollution level
6kA, 10kA		500A(25A,40A),630A(63A)	30A(63A)		4000V	2500V/1min	2

mechanical features							
Mechanical life	Electrical life	Leakage trip indication	Protection class	Ambient temperature (≤35°C)	temperature	Wiring size	Wiring location
10000	4000	■	Ip20	-5~ +60°C	-25~ +70°C	35mm ²	DIN 60715 standard rail Wiring up

Rated residual current breaking time			
Rated current	(IΔn)	Residual current segment time (S)	
		IΔn	5IΔn
25, 40, 63A	30	0.1	0.04
		Residual current segment time (S)	
	Rated sensitivity (IΔn)	6mA	200mA
		30	0.1

RYL10 RCCB

Scope of application

RYL10 residual current circuit breaker (without overcurrent protection) is suitable for AC 50Hz, rated voltage 240V for two poles, 415V for four poles, and rated current up to 63A. It can quickly cut off the fault power in a very short time,

To protect the safety of people and electrical equipment, it can also be used for infrequent switching of lines.

Compliant with : GB/T 16916.1, IEC 61008-1, CE, CB marked.



Technical Parameter

Electrical Characteristics

Classification		Protection type		Rated current (In)	Rated sensitivity (I Δ n)	Sensitivity		Rated voltage (Ue)
AC	A					Instantaneous	Delayed	
■	■	■	■	25, 40, 63A	10, 30, 100, 300mA	■	■	1P+N:240V~ 3P+N:415V~
Rated insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated residual making and breaking capacity I Δ m	Short-circuit current Inc=I Δ c	Rated residual non-operating current	Break time(Instantaneous)		
500V	50/60Hz	4kV	500A (below 63A) 10In(63A and above)	6kA	0.5I Δ n	Residual current I Δ =1I Δ n	Residual current I Δ =2I Δ n	Residual current I Δ =5I Δ n
						0.1s	0.08s	0.04s

Mechanical properties

Mechanical life /Electric life	Protection class		Ambient temperature	Storage temperature
	Direct install	In distribution box		
4000	Ip20	Ip40	-25°C+40°C	-25°C+60°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection	Assemblable accessories
Copper/Hard Wire	Cord/Hoop Terminals					
1-25mm ²	1-16mm ²	—	—	■	Top and bottom(ELM) Top line(ELE)	—

Current-Operated Circuit Breaker

RZR9N RCBO

Scope of application

RZR9N residual current operated circuit breaker is suitable for AC 50Hz, rated voltage 240V, rated current up to 40A. When people come to electric shock or the leakage current of the network exceeds the specified value, it can quickly cut off the faulty power supply in very short time to protect the safety of people and electrical equipment. At the same time, it can protect the overload or short circuit of the line, and can also be used for infrequent switching of the line. It's suitable for terminal distribution lines in commercial office buildings, residential and general industrial use.

Compliant with : GB/T 16917.1, IEC 61009-1



Technical Parameter

Electrical Characteristics

Classification		Protection type		Poles	Rated current (In)	Rated sensitivity (I Δ n)	Sensitivity			Rated voltage (Ue)	
AC	A						Instantaneous reaction				
■	■	■	■	1P+N	6, 10, 16, 20, 25, 32, 40A	30, 100, 300mA	■			240V~	
Rated insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated residual making and breaking capacity I Δ m	Rated residual connecting and breaking capacity Inc=I Δ c	Rated residual non-operating current	Break time					
500V	50/60Hz	4kV	500A	6kA	0.5I Δ n	Residual current I Δ =1I Δ n	Residual current I Δ =2I Δ n	Residual current I Δ =5I Δ n	0.1s	0.08s	0.04s

Mechanical properties

Mechanical life /Electric life	Protection class		Ambient temperature	Storage temperature
	Direct install	In distribution box		
4000	Ip20	Ip40	-25°C+40°C	-25°C+60°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection
Copper/Hard Wire	Cord/Hoop Terminals				
1-25mm ²	1-16mm ²	■	■	■	Top and bottom(ELM) Top line(ELE)

RYR8N RCBO

Scope of application

RYR8N residual current circuit breaker is suitable for AC 50Hz, rated voltage 240V, rated current up to 40A. When people come to electric shock or the leakage current of the network exceeds the specified value, it can quickly cut off the faulty power supply in very short time to protect the safety of people and electrical equipment. At the same time, it can protect the overload or short circuit, and infrequent switching of the line. It's suitable for terminal distribution lines in commercial office buildings, residential and general industrial use.

Compliant with : GB/T 16917.1, IEC 61009-1



Technical Parameter

Electrical Characteristics

Classification		Protection type		Poles	Rated current (In)	Rated sensitivity (I Δ n)	电子式	Rated voltage (Ue)
AC	A							
■	■	■	—	1P+N	6、10、16、20、25、32、40A	30、100、300mA	■	240V~
Rated insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated residual making and breaking capacity I Δ m	Rated residual connecting and breaking capacity Inc=I Δ c	Rated residual non-operating current	Break time		
400V	50/60Hz	4kV	500A	4.5kA	0.5I Δ n	Residual current I Δ =1I Δ n	Residual current I Δ =2I Δ n	Residual current I Δ =5I Δ n
						0.1s	0.08s	0.04s

Mechanical properties

Mechanical life /Electric life	Protection class		Ambient temperature	Storage temperature
	Direct install	In distribution box		
2000	Ip20	Ip40	-25°C+40°C	-25°C+60°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection
Copper/Hard Wire	Cord/Hoop Terminals				
1-16mm ²	1-10mm ²	—	—	■	Top and bottom

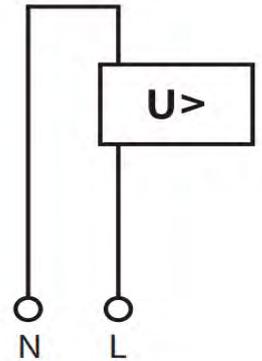
Trip Accessories



OV8/OV9 Overtorque trip unit

Function

When the power supply voltage rises to the specified voltage of $270V \pm 5\%$, the trip assembled with the circuit breaker is triggered; when the power supply voltage does not return to normal, the circuit breaker is prevented from being reconnected;



Technical Parameter

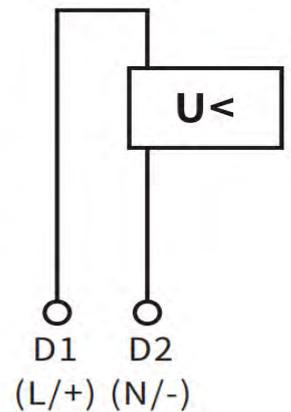
Voltage (Ue)	Red mechanical indicator	Test function	Width (multiple of 9mm)	Current	Contact numbers	Working ambient temperature	Storage temperature
230V	■	—	2	—	—	-25°C+60°C	-25°C+70°C



UV8/UV9 Undervoltage trip unit

Function

When the power voltage drops to (35%~70%Ue), the circuit breaker assembled with it is triggered to trip; when the power supply voltage drops below 35%, it prevents the circuit breaker from closing; $35\%Ue \leq \text{applied voltage} \leq 70\%Ue$; it acts and drives the circuit breaker to open; the applied voltage value should not exceed $110\%Ue$.



Technical Parameter

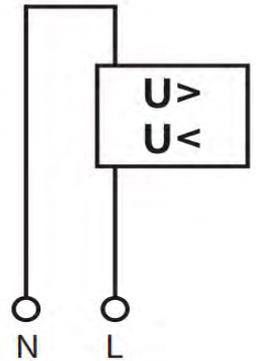
Voltage (Ue)	Red mechanical indicator	Test function	Width (multiple of 9mm)	Current	Contact numbers	Working ambient temperature	Storage temperature
230V	—	—	2	—	—	-25°C+60°C	-25°C+70°C



OVU8/OVU9 Overvoltage and undervoltage trip unit

Function

When the power voltage rises to the specified voltage value, the circuit breaker assembled with it is triggered to trip; when the power voltage drops to the specified voltage value, the circuit breaker assembled with it is triggered to trip; When the power voltage does not return to normal, it prevents the circuit breaker from being reconnected;



Technical Parameter

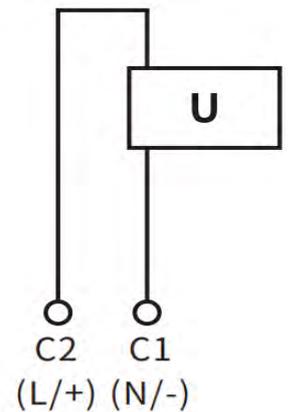
Voltage (Ue)	Red mechanical indicator	Test function	Width (multiple of 9mm)	Current	Contact numbers	Working ambient temperature	Storage temperature
230V	—	—	2	—	—	-25°C+60°C	-25°C+70°C



SH8/SH9 SHT

Function

When signal is received, the circuit breaker assembled with it is triggered to trip.



Technical Parameter

Voltage (Ue)	Red mechanical indicator	Test function	Width (multiple of 9mm)	Current	Contact numbers	Working ambient temperature	Storage temperature
110~400V	—	—	2	—	—	-25°C+60°C	-25°C+70°C

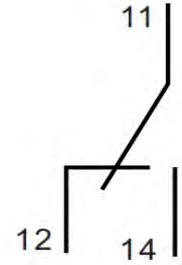
Trip Accessories



AU8/AU9 Status Indication Contacts

Function

Indicate the closing and opening status of the circuit breaker



Technical Parameter

Voltage (Ue)		Red mechanical indicator	Width (multiple of 9mm)	Current					Contact numbers	Working ambient temperature	Storage temperature
240, 415V AC	24, 48, 120V DC	■	2	24V DC 6A	48V DC 2A	120V DC 1A	240V AC 6A	415V AC 2A	1NO+1NC	-25°C+60°C	-25°C+70°C

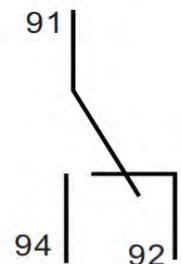


AL8/AL9 Alarm Contacts

Function

Send a signal when the circuit breaker fails to trip;

When the circuit breaker fails to trip, there is a red indicator on the front of the device;



Technical Parameter

Voltage (Ue)		Test function	Width (multiple of 9mm)	Current					Contact numbers	Working ambient temperature	Storage temperature
240, 415V AC	24, 48, 120V DC	■	2	24V DC 6A	48V DC 2A	120V DC 1A	240V AC 6A	415V AC 2A	1NO+1NC	-25°C+60°C	-25°C+70°C

Recloser

RRD9L-C/D MCB/RCCB Controlled By Switch

Scope of application

It can be widely used in electric network terminal lines, new energy circuit management, smart electronic triplex, smart home, smart factory, new energy vehicle charging pile, etc.

It can be matched with MCB/RCCB switch, remote closing and breaking MCB/RCCB switch.

MCB/RCCB switch is controlled by the switching value, and the D type has the function of automatic reclosing.

With manual/auto selector switch.



Technical Parameter

	Control method	Power terminal	Power consumption		Voltage fluctuation range		Indication light	Operate time
			DC12V	AC230V				
RRD9L-C	Switch input control	A1-A2	AC		-10%;+10%	LED	≤1s	
RRD9L-D	Switch input control + recloser		max.1W(Standby)	max.1VA(Standby)				max.20W(action)

	recloser times	recloser time	Closing times reset	Mechanical life	Electric life	Protection class	Ambient temperature
RRD9L-C	-	-	-	10000 times	4000 times	2	-20°C~+55°C
RRD9L-D	3 times	10s-60s-300s	After closing tripping or manual reset within 15 minutes				

Auxiliary Accessories

Auxiliary contact	Alarm contact	SHT	Undervoltage SHT
■	■	■	■

RRD9L-R MCB/MCCB with Auto Reclosing

Scope of application

It can be matched with the MCB / RCCB switch. When the MCB / RCCB switch trips unexpectedly, it will automatically reclose, closing automatically, labor maintenance costs are reduced, and faults can be eliminated in time to improve efficiency.

Built-in 3 reclosing times, if continuous closing fails within 15 minutes, an alarm can be issued through the auxiliary trigger signal.



Technical Parameter

	Control method	Power terminal	Power consumption		Voltage fluctuation range		Indication light	Operate time
			DC12V	AC230V	DC12V	AC220V		
RRD9L-R	Switch input control + recloser	A1-A2	max.1W(Standby) max.20W(action)	AC max.1VA(Standby) max.20VA(action)	-10%;+10%	red and green LED	≤1s	

	recloser times		Closing times reset	Mechanical life	Electric life	Protection class	Ambient temperature
RRD9L-R	3 times	10s-60s-300s	After closing successfully No more tripping or manual reset within 15 minutes	10000 times	4000 times	2	-20°C~+55°C

Auxiliary Accessories

Auxiliary contact	Alarm contact	SHT	Undervoltage SHT
■	■	■	■

Recloser

GRD9L-S MCB/MCCB With Rs485 Interface

Scope of application

It can be widely used in electric network terminal lines, new energy circuit management, smart electronic triplex, smart home, smart factory, new energy vehicle charging pile, etc.

It can be matched with MCB / RCCB switch to close and open MCB/RCCB switch remotely.

Remotely monitor the MCB/RCCB switch through the RS485 interface, read the opening and closing status and various parameters.



Technical Parameter

	Control method	Power terminal	Power consumption		DC12V	AC220V	Rs485 interface communication protocol	Operate time
			DC12V	AC230V				
RRD9L-S	RS485	A1-A2	DC max.1W(Standby) max.20W(action)	AC max.1VA(Standby) max.20VA(action)		-10%;+10%	MODBUS-RTU	≤1s

	recloser times		Closing times reset	Mechanical life		Protection class	Ambient temperature
RRD9L-S	3 times	10s-60s-300s	After closing successfully No more tripping or manual reset within 15 minutes	10000 times	4000 times	2	-20°C~+55°C

Auxiliary Accessories

Auxiliary contact	Alarm contact	SHT	Undervoltage SHT
■	■	■	■

Arc Fault Protective

AFDD Arc Fault Protective

Scope of application

ADDF-32 incorporating MCB and arc fault detection module, provides protection against short circuit, overload, leakage current and arc fault. Arc fault module detects arc fault, which enables the product effectively disconnect the protected circuit.



Application

ADDF-32 is suitable for AC circuits rated up to 32A and is widely used in household and similar equipment. The arc fault detection module of ADDF-32 can effectively detect and identify arc faults that occur on different circuits in series, parallel and grounding, due to insulation failure because of aging, damage or high humidity. When an arc fault is detected, the product trips and cuts off the protected circuit.

Technical Parameter

Rated voltage	Rated frequency	Rated Insulation voltage (Ui)	Rated impulse withstand voltage (Uimp)	Rated current (In)
AC230V	50Hz±2%	400V	4KV	6A、10A、16A、20A、25A、32A
Magnetic trip classification	Rated working short circuit capacity (Ics)	Rated short circuit capacity (Icn)	Insulation material classification	Grid length (mm)
B、C	6KA	6KA	IIIa	40

Classification

Classification by rated current	6A、10A、16A、20A、25A、32A	Classification by magnetic trip	BC
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Normal Operating Conditions

The ambient temperature is 5°C or +40°C, and the daily average maximum temperature is +35°C.

Relative humidity: 50% maximum at 40°C, 90% maximum at 20°C

Arc Fault Protective

AFDD2 Arc Fault Protective

Scope of application

ADDF2-40 series arc fault protector protects the line from overload and short circuit, and also acts as indirect contact protection and direct contact backup protection for people. The arc fault protection unit of the protector can detect and identify the series arc fault in the line, Parallel arc fault and ground arc fault.



Technical Parameter

Rated voltage	Rated frequency	Rated Insulation voltage (Ui)	Rated impulse withstand voltage (Uimp)	Rated current (In)
AC230V	50Hz±2%	400V	4KV	6A, 10A, 16A, 20A, 25A, 32A, 40A
Magnetic trip classification	Rated working short circuit capacity (Ics)	Rated residual operating current (IΔn)	Operating characteristics when residual current with DC component	Grid length (mm)
B, C	6KA	30mA	AC, A type	40

Classification

Classification by rated current	6A, 10A, 16A, 20A, 25A, 32A, 40A	Classification by magnetic trip	B, C
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Normal Operating Conditions

The ambient temperature is 5°C or +40°C, and the daily average maximum temperature is +35°C. Relative humidity: 50% maximum at 40°C, 90% maximum at 20°C

Home/Industrial AC Contactors

RYHC Home AC Contactors

Scope of application

RYHC series analog-digital AC contactors adopt a new technology platform and apply automated production and testing equipment to create high-end contactors with super quiet and long life.

Transparent clamshell design, high-end material selection, RoHS standard, visual window, and rich models and specifications.



Technical Parameter

RYHC Contactor-50/60Hz

Rated voltage (Ue)	Electric life	Insulation voltage (Ui)	Rated impulse withstand voltage (Uimp)	Authentication	
1P/2P: 250V AC 3P/4P: 400V AC	100000	500V AC	4kV	CCC/CE	
type	Rated current (In)		control voltage (V)	contact	width (Multiple of 9mm)
	AC-7a	AC-7b			
1P 	16A	6A	AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V	1NO 1NC	2
	20A	7A			
	25A	9A			
2P 	16A	6A		2NO 2NC 1NO1NC	2
	20A	7A			
	25A	9A		4	
	32A	12A			
	40A	15A			
3P 	16A	6A		3NO 3NC	2
	20A	7A			
	25A	9A	4		
	32A	12A			
	40A	15A			
4P 	16A	6A	4NO 4NC 2NO2NC 3NO1NC	2	
	20A	7A			
	25A	9A	4		
	32A	12A			
	40A	15A			
63A	20A				

Home/Industrial AC Contactors

RLC1 Industrial AC Contactors

Scope of application

The RLC1 series AC contactor adopts a new technology platform and applies automated production and testing equipment to create stable and reliable high-quality contactors. 09~95A, a total of 10 current specifications. Adhering to the standard: GB/T 14048.1 General and GB/T 14048.4.

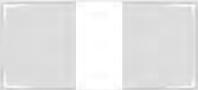


Technical Parameter

Contactor model		RLC1-09	RLC1-12	RLC1-18	RLC1-25	RLC132	RLC1-40	RLC1-50	RLC1-65	RLC1-80	RLC1-95
Rated insulation voltage		690									
Conventional thermal current (Lth)		20	20	32	40	50	60	80	80	100	100
Rated working current (Ie)	380V,AC-3	9	12	18	25	32	40	50	65	80	95
	380V,AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	660V,AC-3	6.6	8.9	10.6	18	21	34	39	42	49	49
	660V,AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
Rated working power (Pe)	380V,AC-3	4	5.5	7.5	11	15	18.5	22	30	37	45
	380V,AC-4	1.5	2.2	3	4	5	7.5	11	15	18.5	22
	660V,AC-3	5.5	7.5	9	15	18.5	30	33	37	45	45
	660V,AC-4	1.1	1.5	1.4	4	5.5	7.5	11	11	15	18.5
Mechanical life		1200			1000		900			650	
Electric life	AC-3	110				90				65	
	AC-4	22					17				11

ACCESSORIES

FG 1 Dust cover

	Installation location	Order code	Applicable products
	Top	FG1-18	RLC1-09~18
		FG1-32	RLC1-25~32
		FG1-65	RLC1-40~65
		FG1-95	RLC1-80~95

F1 /Fc1 Auxiliary Contact

	Installation location	Pole number	Contact form		Order code	Applicable products
			NO			
	top	2	1	1	F1-11	RLC1-09~95
				0	F1-20	
			0	2	F1-02	
		4	2	2	F1-22	
				0	F1-40	
			0	4	F1-04	
	side	4	3	1	F1-31	
			1	3	F1-13	
			0	2	FC1-02	
		1	1	FC1-11		
		2	0	FC1-20		

FJ 1 Mechanical Interlock

	Installation location	Interlock method	Order code	Applicable products
	Horizontal installation	Mechanical interlock	FJ1-32E	RLC1-09~32
			FJ1-95E	RLC1-40~95

Molded Case Circuit Breaker

RYCM3E Electronic Molded Case Circuit Breaker

Scope of application

RYCM3E series electronic molded case circuit breakers are suitable for distribution network circuits with AC 50 or 60Hz, rated working current up to 800A, for distributing electric energy and protecting lines and power equipment from overload, short circuit, voltage, etc. faulty damage. It can also be used as infrequent starting, overload, short circuit, and voltage protection of the motor.



Technical Parameter

Installation				
Ambient temperature	Altitude	Tolerance characteristics	Installation conditions	Using environment
-5°C~40°C	Below 2000m	Moisture-proof, mold-resistant, radiation-resistant	Inclination lower than 22.5°C	It must be used in an environment free of corrosive metals and gas that destroys insulation, no conductive dust, and no explosive dangerous substances.

Circuit breaker rating				
Frame rating rated current Inm(A)	Short circuit breaking capacity		Number of poles	
	AC400V Icu/Ics(kA)			
			Circuit breaker rated current In(A)	
RYCM3E-315	70/50		Three poles	80, 100, 125, 140, 160, 180, 200, 225, 250, 315 (adjustable)
RYCM3E-630	100/70			200, 225, 250, 315, 350, 400, 500, 630 (adjustable)
RYCM3E-800	100/70		Four poles	630, 700, 800 (adjustable)

RYCM3L Residual Current Protection Circuit Breaker

Scope of application

RYCM3L series residual current protection circuit breaker is suitable for AC 50 or 60Hz, rated current up to 800A in the distribution network circuit. It is used for distributing electrical energy and protecting lines and power equipment from overload, short circuit, voltage and other faults. It can also be used in infrequent starting and overload, short circuit and voltage protection of the motor.



Technical Parameter

Installation

Ambient temperature	Altitude	Tolerance characteristics	Installation conditions	Using environment
Below 40°C	Below 2000m	Moisture-proof, mold-resistant, radiation-resistant	Inclination lower than 22.5°C	It must be used in an environment free of corrosive metals and gas that destroys insulation, no conductive dust, and no explosive dangerous substances.

Circuit breaker rating

Frame rating rated current $I_{nm}(A)$	Short circuit breaking capacity level	Short circuit breaking capacity	Number of poles	Circuit breaker rated current $I_n(A)$
		AC400V $I_{cu}/I_{cs}(kA)$		
RYCM3L-125	M	35/25	Three poles	225, 250, 315
	H	50/35		
RYCM3L-160	M	50/35	Four poles	
	H	65/42		
RYCM3L-315	M	65/50		400, 500, 630
RYCM3L-630	H H	65/50		630, 700, 800

Molded Case Circuit Breaker

GB14048.2-2008
 GB/Z6829-2008
 Q/GDW11196-2014
 Q/GDW11020-2013

RYCM3C Residual Current Protection Circuit Breaker

Scope of application

RYCM3C series has the functions of overvoltage protection, overvoltage protection, open phase protection, phase fault protection, neutral wire cuts protection, surge protection, automatic reclosing, communication and so on. It can show parameters such as rated current, load current, three-phase power supply voltage, residual current setting value, power grid residual operating current, etc.; It also can identify trip types (residual current, blocking, overload, voltage, overvoltage, open phase), and recognize, store, search and delete.



Product features

Using and installation

Ambient temperature	Altitude	Pollution classification	Using environment	Using environment
-5°C~40°C	Lower than 2000m	III	The atmosphere humidity is less than 50% at the highest temperature of 40°C, and the lower temperature allows a higher relative humidity	It must be in an environment free of corrosive metals and gas that destroys insulation, no conductive dust, and no explosive dangerous substances.

GYCM3C series residual current protection circuit breaker is suitable for three-phase and four-wire power supply of 50HZ or 60HZ, rated voltage 400V and rated current up to 800A, grounding grid, simple computer room, mobile computer room and other outdoor unattended equipment. In addition to the protection function of over current and short circuit, this product also has protection functions such as residual current, over-voltage, under-voltage, open phase and neutral wire cuts. GYCM3C can solve the problem that the switch tripping equipment cannot be automatically recovered after the power failure, caused by transient faults such as thunder weather and unstable electric shock. It provides stable and reliable power supply for equipment, prolong the life of electrical equipment, improve the quality of power network, reduce network construction investment and maintenance costs. GYCM3C has been 3C marked, and passed the authoritative testing of conventional functions, residual current operating characteristics, working characteristics in special environments, built-in pluggable lightning protection modules, communication functions, special wave functions, and infrared remote control.

Classification

Frame class	315、400、630、800		
Frame class	250	100、125、140、160、180、200、225、250	
	630	200、225、250、315、350、400、500	
	800	630、700、800	

Dual Power Automatic Transfer Switch

RW2R Dual Power Automatic Transfer Switch

Scope of application

The RW2R dual power automatic transfer switch is mainly used to test whether the main power or backup power function properly. When the power doesn't work properly, the backup power will start to work immediately to ensure the continuity, reliability and safety of the power supply.

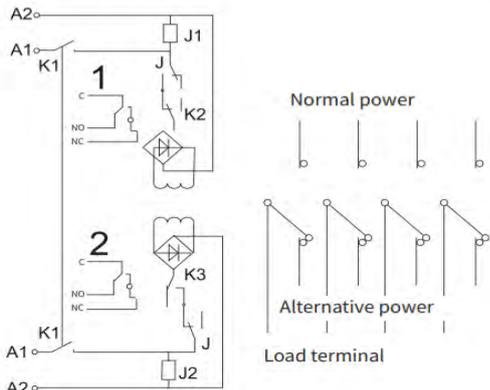
The dual power supply is suitable for emergency power supply system of 50/60HZ, rated 400V AC point.



Technical Parameter

electrical characteristics

Rated current Ie A	Insulation voltage (Ui)	Rated voltage (Ue)	Level	Using category	Rod	Electric life
16/20/25 32/40/50/63	AC 690V, 50HZ	AC 400V, 50HZ	Pc	AC-33iB AC-31B	2P/3P/4P	2000
Rated short-circuit current Iq	Rated protection device (fuse)	Rated impulse withstand voltage	Weight			
			2P	3P	4P	
50kV	RT16-00-63A	8kA	1.7kg	2.1kg	2.6kg	
Control circuit	Auxiliary circuit	Contacting switching time	Operation transition time	Return conversion time	Power off time	
Rated control voltage Us AC220V,50HZ	2 relays	<50ms	<50ms	<50ms	<50ms	



K1: manual/automatic selector switch
 K2, K3: internal valve position switch
 J1: normally used 220VA power relay
 J2: backup 220VB power relay
 1:A power passive signal output
 2:B power passive signal output

Intelligent Circuit Breaker

RYW1 Intelligent circuit breaker

Scope of application

Intelligent circuit breakers are used to control and protect low-voltage distribution networks, and are generally installed in low-voltage distribution box as the main switch for overall protection.

AC rated current 200A-6300A; short-circuit breaking capacity 80KA-120KA (effective value); rated working voltage AC690V and below;



Technical Parameter

Model	2000						
Frame rating current rating $I_{nm}(A)$	2000						
Rated current $I_n (A)$	200/400/630	800	1000	1250	1600	2000	
Rated working voltage U_e	AC400,690 50HZ						
Rated insulation voltage U_i	AC1000,50HZ						
Rated impulse withstand voltage U_{imp}	8000						
Power frequency tolerance voltage U	AC3500V/1min,50Hz						
Poles	3/4						
Pole N rated current $I_N (A)$	50% I_n 100% I_n						
Rated ultimate short-circuit segment capacity $I_{cu}(kA)$ (RMS)	AC400V	80					
	AC690V	50					
Rated operating short-circuit segment capacity $I_{cs}(kA)$ (RMS)	AC400V	50					
	AC690V	40					
Rated short-circuit connecting capacity $I_{cm}(kA)$ (peak)	AC400V	176					
	AC690V	105					
Rated short-time tolerance current (1s) $I_{cw} (kA)$ (RMS)	AC400V	50					
	AC690V	40					
Full breaking time (without additional delay)	25~30						
Closing time	Max 70						
Operational performance	Electric life	500					
		AC690V	500				
	Mechanical life	No maintenance	2500				
		Have maintenance	10000				

model		4000				6300				
Frame rating current rating $I_{nm}(A)$		4000				6300				
Rated current $I_n (A)$		2500	2900	3200	3600	4000	4000	5000	6300	
Rated working voltage U_e		AC400,690 50HZ								
Rated insulation voltage U_i		AC1000,50HZ								
Rated impulse withstand voltage U_{imp}		8000								
Power frequency tolerance voltage U		AC3500V/1min,50Hz								
Poles		3/4								
Pole N rated current $I_N (A)$		50% I_n 100% I_n								
Rated ultimate short-circuit segment capacity $I_{cu}(kA) (RMS)$	AC400V	100				120				
	AC690V	65				75				
Rated operating short-circuit segment capacity $I_{cs}(kA) (RMS)$	AC400V	65				100				
	AC690V	50				65				
Rated short-circuit connecting capacity $I_{cm}(kA) (peak)$	AC400V	220				264				
	AC690V	143				165				
Rated short-time tolerance current (1s) $I_{cw} (kA) (RMS)$	AC400V	65				85				
	AC690V	50				65				
Full breaking time (without additional delay)		25~30								
Closing time		MAX 70								
Operational performance	Electric life					500				
		AC690V					500			
	Mechanical life	No maintenance	2500				2000			
		Have maintenance	10000				8000			

Normal operating Conditions

The ambient temperature is $-5^{\circ}C$ or $+40^{\circ}C$, and the daily average maximum temperature is $+35^{\circ}C$. The altitude of the installation site should be lower than 2000m. Relative humidity: The maximum value is 50% at $40^{\circ}C$, and the maximum value is 90% at $25^{\circ}C$. Considering the condensation on the surface due to temperature changes, special measures should be taken. The pollution level is 3. The installation category of the main circuit of the circuit breaker, the voltage trip coil, and the primary coil of the power transformer is IV, and the installation category of the remaining auxiliary circuits and control circuits is III. The vertical inclination of the circuit breaker should be smaller than ± 5 .

MINI Display Digitali

Voltmetro, amperometro e frequenzimetro , anche con colori diversi.

Possibilità di corrente alternata (CA) da 20 a 500 V o corrente continua (CC) da 5 a 60 V

I Display utilizzano un tubo di visualizzazione digitale a LED, a lunga durata.

Luci luminose digitali con diametro del foro 22mm.

Disponibile in diversi colori (verde, rosso e blu)

Voltmeter, ammeter and frequency meter, also with different colors.

Possibility of alternating current (AC) from 20 to 500 V or direct current (DC) from 5 to 60 V

Displays use a long-lasting digital LED display tube.

Digital lights with 22mm hole diameter.

Available in different colors (green, red and blue)



RPVBL VOLTMETRO AZZURRO
20-500V (Corrente Alternata)
Blu Voltmeter AC 20-500V



RPVCBL VOLTMETRO AZZURRO
5-60V (Corrente Continua)
Blu Voltmeter DC 5-60V



RPVGR VOLTMETRO VERDE
20-500V (Corrente Alternata)
Green Voltmeter AC 20-500V



RPVCGR VOLTIMETRO VERDE
5-60V (Corrente Continua)
Green Voltmeter DC 5-60V



RPVRE VOLTMETRO ROSSO
20-500V (Corrente Alternata)
Red Voltmeter AC 20-500V



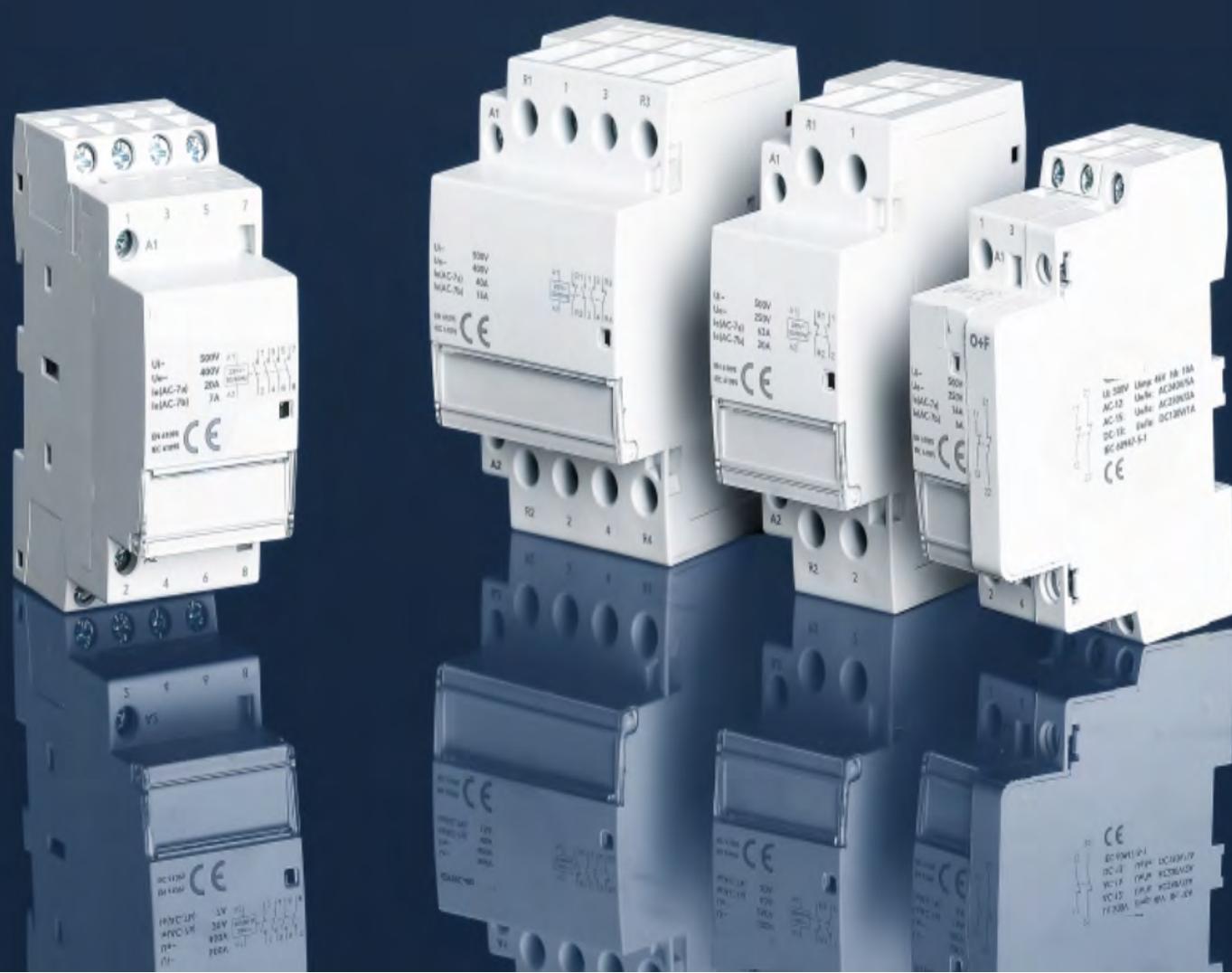
RPHZGR FRECUENCIMETRO VERDE
0-99HZ
Green Frequencymeter 0-99Hz



RPAGR AMPEROMETRO VERDE
0-100A

MODULAR CONTACTOR

1RMC



Product Overview



1RMC series modular contactor uses a new technology platform and apply automated production and testing equipment to create advanced ultra-quiet and long-life contactors.

- **1RMC** contactor can be used for remote control:
 - Lighting, heating, ventilation, rolling curtains, public hot water
 - Mechanical ventilation system, etc
 - Low inductive micro-inductive load environment



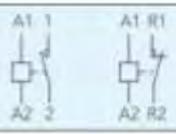
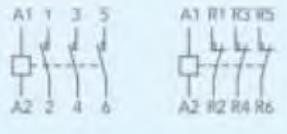
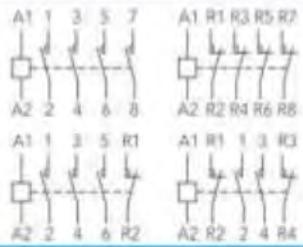
Product Naming Rules



- 1 Modularization AC Contactor
- 2 Poles numbers
- 3 Rated Current
16A/20A/25A/32A/40A/63A
- 4 Contactor Type
1P 10:1NO/01:1NC
2P 20:2NO/11:1NO+1NC/02:2NC
3P 30:3NO/03:3NC
4P 40:4NO/31:3NO+1NC/22:2NO+2NC/04:4NC
- 5 Control Voltage
AC24V/AC48V/AC110V/AC230V/DC12V/DC24V
- 6 DC Control Circuit

Technical Parameters

1RMC 50/60Hz

Type	Rated current (In)	Control voltage (V)	Contact	Multiple Of The Width Of The Module	
					AC-7a
1P 	16A	6A	AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V	1NO 1NC	2
	20A	7A			
	25A	9A			
2P 	16A	6A	AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V	2NO 2NC 1NO1NC	2
	20A	7A			
	25A	9A			4
	32A	12A			
	40A	15A			
3P 	16A	6A	AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V	3NO 3NC	4
	20A	7A			
	25A	9A			6
	32A	12A			
	40A	15A			
4P 	16A	6A	AC(50/60Hz): 24V/48V/110V/230V DC:12V/24V	4NO 4NC 2NO2NC 3NO1NC	4
	20A	7A			
	25A	9A			6
	32A	12A			
	40A	15A			
	63A	20A			

Wiring

Type	Rated current (In)	Wire stripping Length	Circuit	Torque	Copper wire			
					Hard wire	Soft wire or loop wire terminal		
	1RMC	PZ1:4mm	16-63A	9mm	Control circuit	1.2N·m	1.5-2.5mm; 2×1.5mm ²	1.5-2.5mm; 2×1.5mm ²
							16-25A	1.5-6mm ²
	AS	PZ2:6mm	40-63A	14mm	Power circuit	3.5N·m	6-25mm ²	6-16mm ²
		PZ1:4mm	—	9mm	—	1.2N·m	1.5-2.5mm; 2×1.5mm ²	1.5-2.5mm; 2×1.5mm ²

Technical Parameters

Main Circuit Characteristics						
	(Ue)	1P/2P	250V AC			
	Rated operational voltage(Ue)	3P/4P	400V AC			
	Frequency	50Hz				
0 - C Durability						
	Electrical durability	100000				
	Maximum number of switching operation a day	100				
Additional Characteristic						
	(Ui) Rated insulation voltage (Ui)	500V AC				
	Pollution class	2				
	(Uimp) Rated impulse withstand voltage (Uimp)	4kV				
	(IEC/EN 60529) Protection Grade(IEC/EN 60529)	Contactor only	IP20			
		Contactor in modular enclosure	IP40			
	Operating temperature	-5°C~+60°C ⁽¹⁾				
	Storage Temperature	-40°C~+70°C				
	(IEC/EN 60068-1) Tropicalization(IEC/EN 60068-1)	Treatment 2 (relative humidity 95% at 55°C)				
	Certification	CE				
	ELSV	12/24/48V AC				
	ELSV compliance (extra low safety voltage) for 12/24/48V AC versions					
	The product control conforms to the SELV(safety extra low voltage)requirements					
	(1)In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50°C and 60°C. It is necessary to use a spacer between each contactor.					
Power Consumption						
	(In) Rated current		(V AC)(50/60Hz) Control voltage (V AC)(50/60Hz)	Power consumption:		Max. Power
	AC-7a	AC-7b		Holding	Actuation	
1P	25A	9A	230...240	2.7VA	9.2VA	1.2W
	16A	6A	230...240	2.7VA	9.2VA	1.2W
	20A	7A	230...240	2.7VA	9.2VA	1.2W
2P	25A	9A	24	3.8VA	15VA	1.3W
			230...240	2.7VA	9.2VA	1.2W
			230...240	2.7VA	9.2VA	1.2W

Technical Parameters

Power Consumption

	(In)		(V AC)(50/60Hz) Control voltage (V AC)(50/60Hz)	Power Consumption		Max. Power
	Rated Current AC-7a	AC-7b		Holding	Actuation	
2P	32A	12A	220...240	4.6VA	34VA	1.6W
	40A	15A	220...240	4.6VA	34VA	1.6W
	63A	20A	220...240	4.6VA	34VA	1.6W
3P	16A	6A	220...240	4.6VA	34VA	1.6W
	20A	7A	220...240	4.6VA	34VA	1.6W
	25A	9A	220...240	4.6VA	34VA	1.6W
	32A	12A	220...240	6.5VA	53VA	2.1W
	40A	15A	220...240	6.5VA	53VA	2.1W
	63A	20A	220...240	6.5VA	53VA	2.1W
4P	16A	6A	220...240	4.6VA	34VA	1.6W
	20A	7A	220...240	4.6VA	34VA	1.6W
	25A	9A	24	4.6VA	34VA	1.6W
			220...240	4.6VA	34VA	1.6W
			24	4.6VA	34VA	1.6W
			220...240	4.6VA	34VA	1.6W
	32A	12A	220...240	6.5VA	53VA	2.1W
	40A	15A	220...240	6.5VA	53VA	2.1W
63A	20A	220...240	6.5VA	53VA	2.1W	

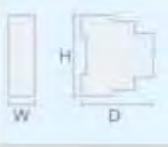
Dimensions	16A/20A/25A		32A/40A/63A	
	2P	4P	2P	4P
	W(mm)	18	36	36
	D(mm)	68	68	68
	H(mm)	81	81	85

Accessories

O+F

This attachment is used to indicate the "on" or "off" state of the contactor's main contact

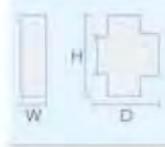
Dimensions

	W(mm)	9
	D(mm)	68
	H(mm)	81

1RMC...-G

It is used to install on both sides of the contactor, which is good for the heat dissipation of the contactor

Dimensions

	W(mm)	9
	D(mm)	68
	H(mm)	85

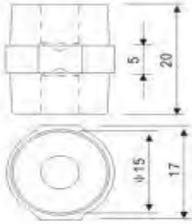
Contactor Selection Table

Product Name	Current Specification	Main cont.	Coil Frequency	Reference
1RMC	16	10	AC230	1RMC81610AC230
	16:16A	10:1NO	AC230V	
	20:20A	01:1NC	AC110V	
	25:25A	20:2NO	AC48V	
	32:32A	02:2NC	AC24V	
	40:40A	11:1NO1NC	DC24V	
	63:63A	30:3NO	DC12V	
		03:3NC		
		31:3NO1NC		
		22:2NO2NC		
		40:4NO		
		04:4NC		

BUS BAR INSULATOR(Drum)

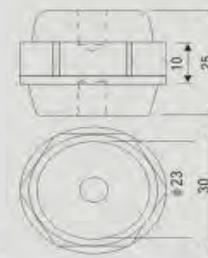


RINS-20



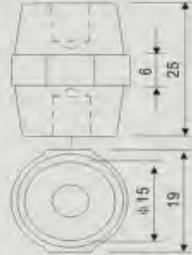
Tensile strength (LBS)	300
Voltage Withstand (KV)	5
Torgue Strenght (FT LBS)	4
Screw (mm)	6
Screw depth (mm)	7
Flexural strength (daN)	80

RINS-25/30



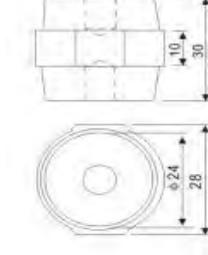
Tensile strength (LBS)	300
Voltage Withstand (KV)	6
Torgue Strenght (FT LBS)	6
Screw (mm)	6 (8)
Screw depth (mm)	9
Flexural strength (daN)	300

RINS-25/19



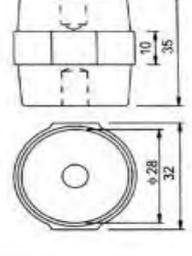
Tensile strength (LBS)	400
Voltage Withstand (KV)	6
Torgue Strenght (FT LBS)	5
Screw (mm)	6
Screw depth (mm)	8
Flexural strength (daN)	200

RINS-30/28



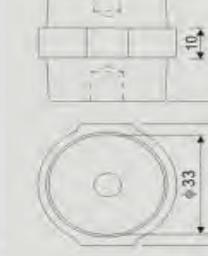
Tensile strength (LBS)	550
Voltage Withstand (KV)	8
Torgue Strenght (FT LBS)	8
Screw (mm)	6
Screw depth (mm)	11
Flexural strength (daN)	450

RINS-35



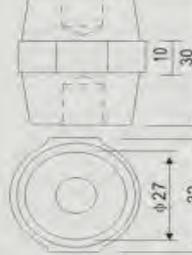
Tensile strength (LBS)	600
Voltage Withstand (KV)	10
Torgue Strenght (FT LBS)	10
Screw (mm)	8
Screw depth (mm)	11
Flexural strength (daN)	700

RINS-40



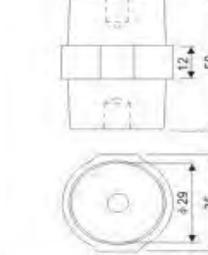
Tensile strength (LBS)	650
Voltage Withstand (KV)	12
Torgue Strenght (FT LBS)	12
Screw (mm)	6(8)(10)
Screw depth (mm)	11
Flexural strength (daN)	750

RINS-30/32



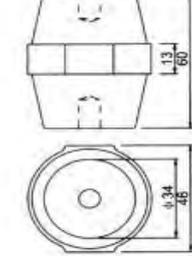
Tensile strength (LBS)	550
Voltage Withstand (KV)	8
Torgue Strenght (FT LBS)	8
Screw (mm)	6 (8)
Screw depth (mm)	11
Flexural strength (daN)	450

RINS-50



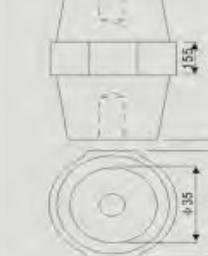
Tensile strength (LBS)	1000
Voltage Withstand (KV)	15
Torgue Strenght (FT LBS)	20
Screw (mm)	6(8)(10)
Screw depth (mm)	11
Flexural strength (daN)	750

RINS-60



Tensile strength (LBS)	1200
Voltage Withstand (KV)	20
Torgue Strenght (FT LBS)	35
Screw (mm)	8 (10)
Screw depth (mm)	15
Flexural strength (daN)	800

RINS-80



Tensile strength (LBS)	1500
Voltage Withstand (KV)	25
Torgue Strenght (FT LBS)	40
Screw (mm)	10
Screw depth (mm)	15
Flexural strength (daN)	1200

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