



ROCKGRAND

温州市荣格贸易有限公司

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温州大观电气有限公司

WENZHOU ROCKGRAND ELECTRIC CO., LTD.
ADD: ZHEJIANG YONGJIA WUFU DONGMENG
INDUSTRY AREA
TEL: 0577-67300668 / 67300667 / 0577-67300666
FAX: 0577-67300669
HTTP: WWW.ROCKGRAND.COM



CIRCUIT PROTECTION EQUIPMENT

ROCKGRAND



Simply & safety

> INTRODUCTION

For 20 years, we've focused on providing product variety and service versatility. Our catalog has expanded to include hundreds of electrical products, wall switches and connectors. Source from our range of simple but practical designs like the power-socket outlet featured here. Our 18,176m² factory contains a QC laboratory where 20 inspectors utilize computerized testing equipment to ensure the integrity of our products.

We have 35 R&D technicians who develop a new product every month-twice the rate of our competitors. Your OEM orders are welcome, and we can also design your custom packaging. Our port-side warehouse facilitates the low-cost procurement of raw materials and the economical transportation of your order. Contact us today.






 温州大觀電氣有限公司
 WENZHOU DAGUAN ELECTRICS CO.,LTD.



ISO9001:2000
 ISO14000:2004
 ISO18000:2001





NEW
9mm

GENERAL

1.Application:For protecting cables and equipments against overload and short circuit.

2.General rules for choosing MCB.

a.Technical data of the network at the point considered:

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

b.There are 3 curve characteristics for magnetic operation:

B curve(3-5 In)protection and control of the circuits against length cables in TN and IT systems.

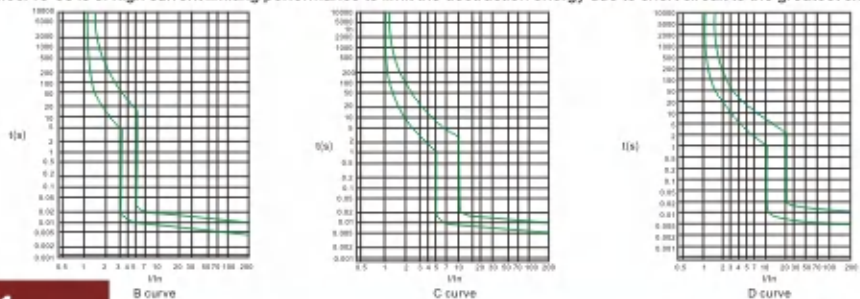
C curve(5-10 In)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.

D curve(10-14 In)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

Curves

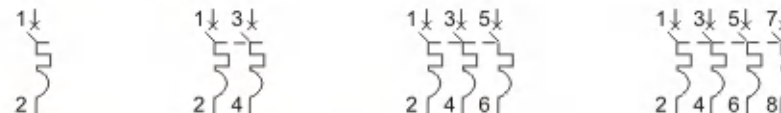
LFM09/10-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



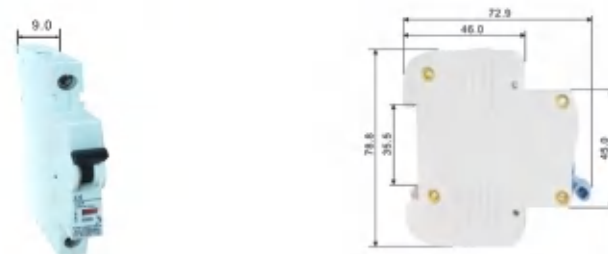
SPECIFICATIONS

Standard		IEC/EN60898-1	
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	AC 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 1 min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	
AWG			18-3
Terminal size top/bottom for busbar	mm ²		25
	AWG		18-3
Tightening torque	N*m		2
	In-lbs.		18
Mounting			On DIN rail EN 60715(35mm)by means of fast dip device
Connection			From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





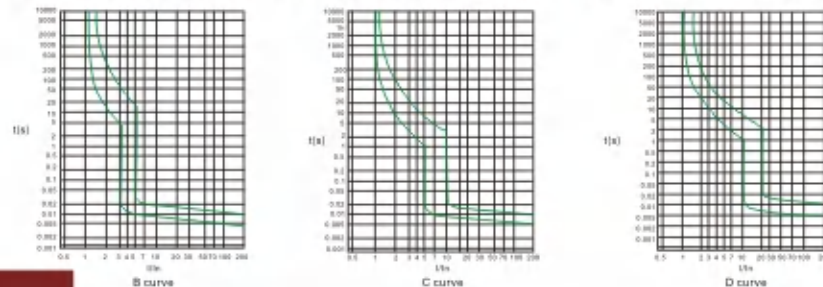
GENERAL

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The earthing systems,short-circuit current at the circuit breaker installation point,which must always be less than the breaking capacity of this device,network normal voltage.
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C curve(5-10 In)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.
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SPECIFICATIONS

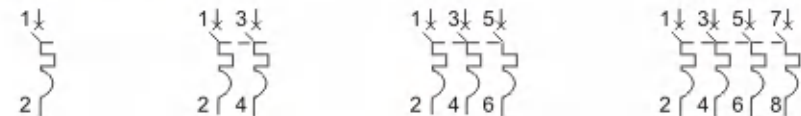
Curves
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



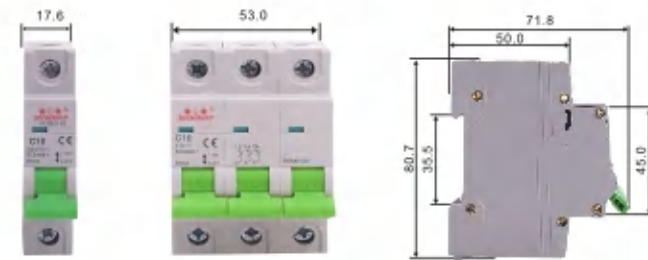
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Standard		IEC/EN60898-1	
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63
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	Rated voltage Ue	V	AC 240/415
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000, 10000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs.	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast dip device
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





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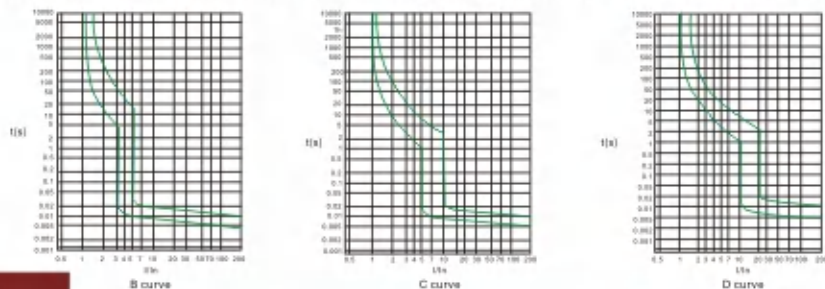
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SPECIFICATIONS

Curves

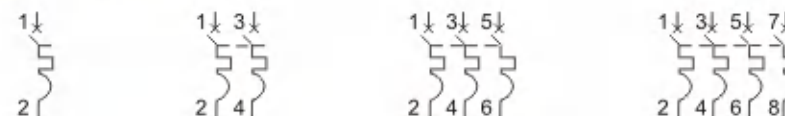
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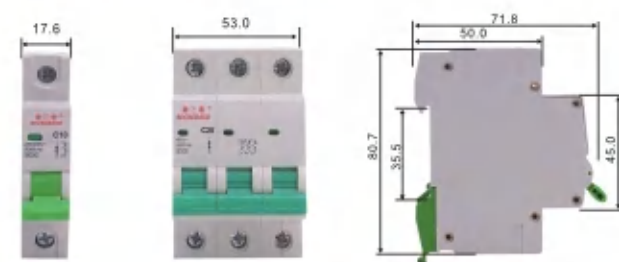
SPECIFICATIONS

Standard		IEC/EN60898-1		
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	AC 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	4000	
	Dielectric test voltage at ind.Freq for 1min	kV	2	
	Pollution degree		2	
	Thermo-magnetic release characteristic		B,C,D	
Mechanical Features	Electrical life	t	4000	
	Mechanical life	t	10000	
	Protection degree		IP20	
Reference temperature for setting of thermal element	°C		30	
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
	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		16
		AWG		18-5
Tightening torque	N*m		2	
	ln-lbs		18	
Mounting		On DIN rail EN 60715(35mm)by means of fast dip device		
Connection		From top and bottom		

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





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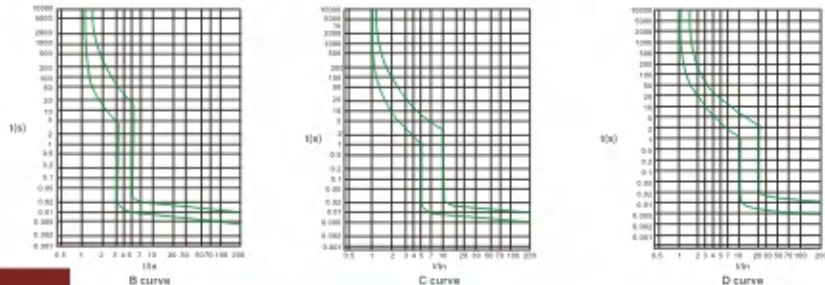
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SPECIFICATIONS

Curves

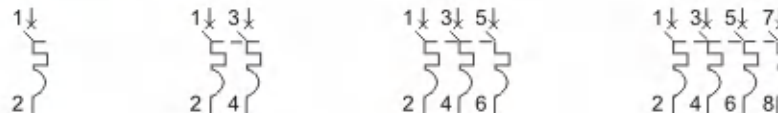
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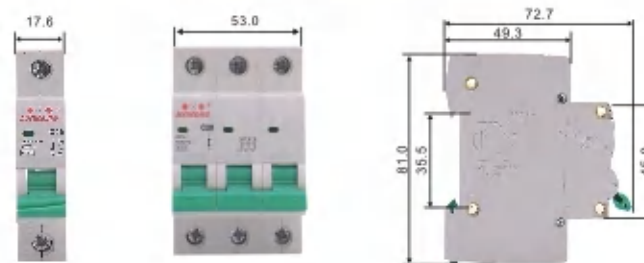
SPECIFICATIONS

Standard		IEC/EN60898-1	
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	AC 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	4000
	Dielectric test voltage at ind.Freq for 1 min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
In-lbs		18	
Mounting		On DIN rail EN 60715(35mm)by means of fast dip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





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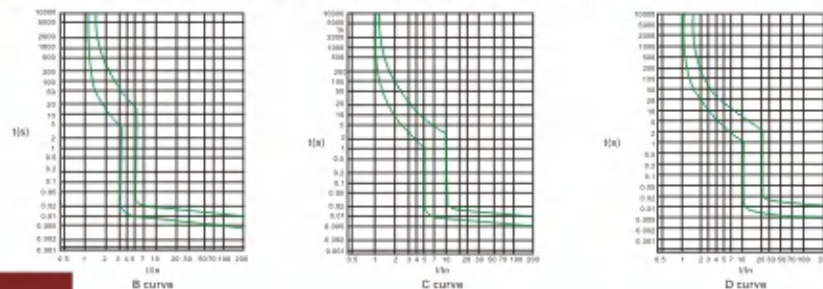
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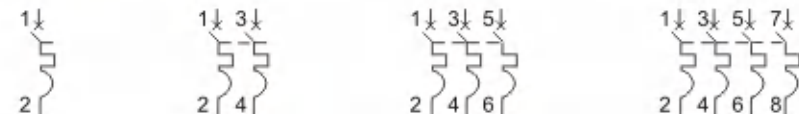
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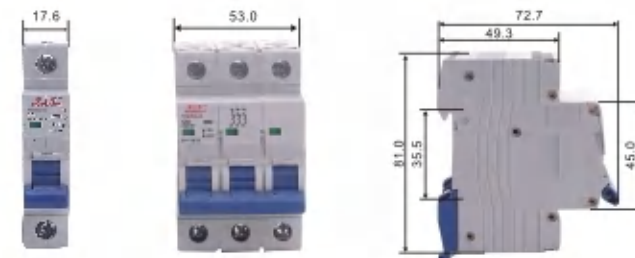
SPECIFICATIONS

	Standard	IEC/EN60898-1	
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
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	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	4000
	Dielectric test voltage at ind.Freq for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
In-lbs.		18	
Mounting		On DIN rail EN 60715(35mm)by means of fast dip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





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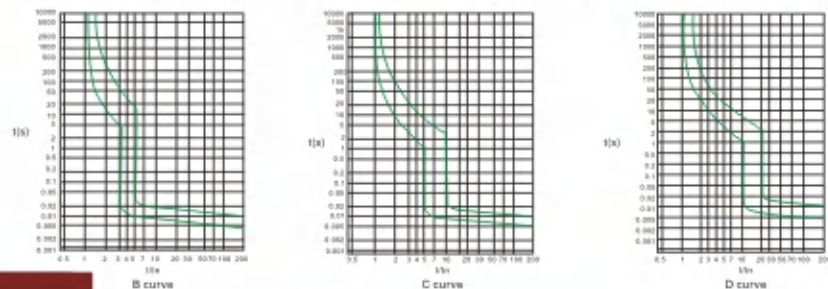
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SPECIFICATIONS

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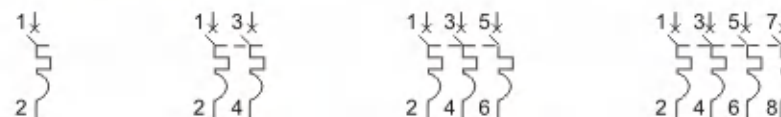
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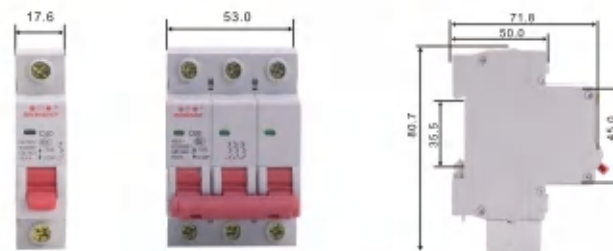
SPECIFICATIONS

Standard		IEC/EN60898-1		
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	AC 240/415	
	Insulation voltage Ui	V	500	
	Rated frequency	Hz	50/60	
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	Rated impulse withstand voltage(1.2/50)Uimp	V	4000	
	Dielectric test voltage at ind.Freq for 1min	kV	2	
	Pollution degree		2	
	Thermo-magnetic release characteristic		B,C,D	
Mechanical Features	Electrical life	t	4000	
	Mechanical life	t	10000	
	Protection degree		IP20	
	Reference temperature for setting of thermal element	°C	30	
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
	Terminal connection type		Cable/ pin-type busbar	
	Terminal size top/bottom for cable	mm ²		16
		AWG		18-5
	Terminal size top/bottom for busbar	mm ²		16
		AWG		18-5
	Tightening torque	N*m		2
		ln-lbs.		18
	Mounting			On DIN rail EN 60715(35mm)by means of fast dip device
Connection			From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





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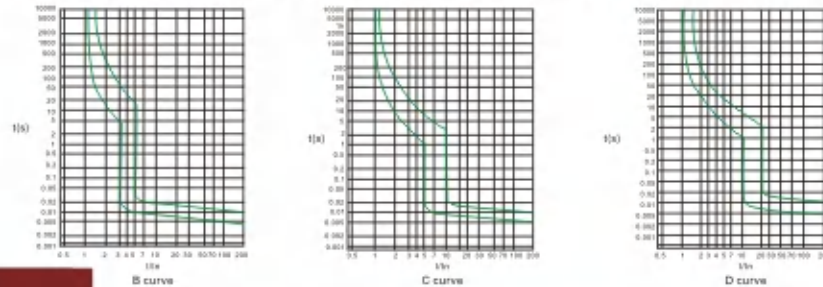
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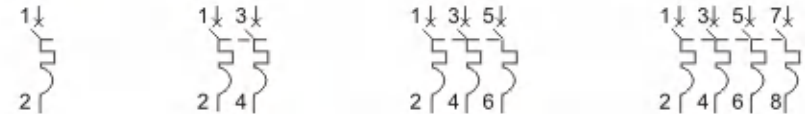
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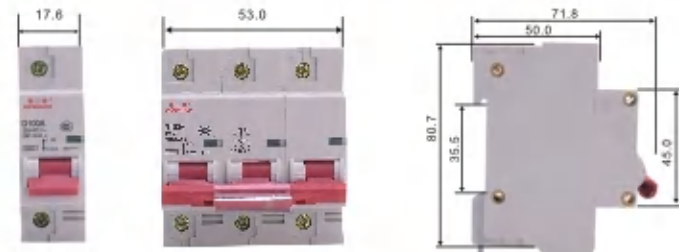
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	Dielectric test voltage at ind.Freq for 1min	KV	2	
	Pollution degree		2	
	Thermo-magnetic release characteristic		B,C,D	
Mechanical Features	Electrical life	t	4000	
	Mechanical life	t	10000	
	Protection degree		IP20	
Reference temperature for setting of thermal element	°C		30	
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
	Terminal connection type		Cable/ pin-type busbar	
	Terminal size top/bottom for cable	mm ²		16
		AWG		18-5
	Terminal size top/bottom for busbar	mm ²		16
		AWG		18-5
Tightening torque	N*m		2	
	In-lbs.		18	
Mounting			On DIN rail EN 60715(35mm)by means of fast dip device	
Connection			From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





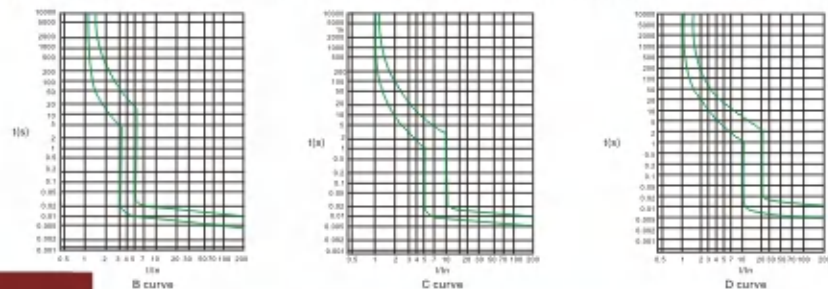
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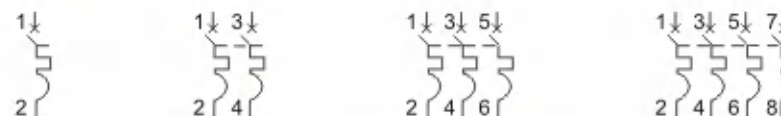
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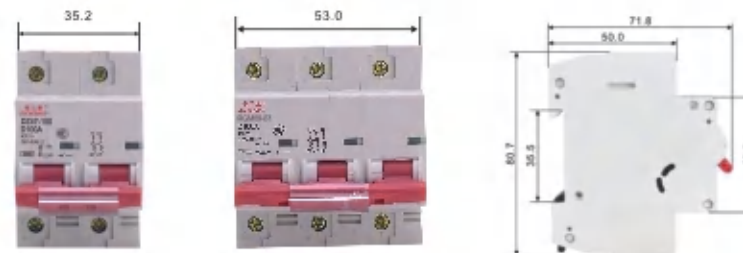
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	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000, 10000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
ln-lbs.		18	
Mounting		On DIN rail EN 60715(35mm)by means of fast dip device	
Connection		From top and bottom	

WIRING DIAGRAM



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1.Application:For protecting cables and equipments against overload and short circuit.

2.General rules for choosing MCB.

a. Technical data of the network at the point considered:

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

b. There are 3 curve characteristics for magnetic operation:

B curve(3-5 In)protection and control of the circuits against length cables in TN and IT systems.

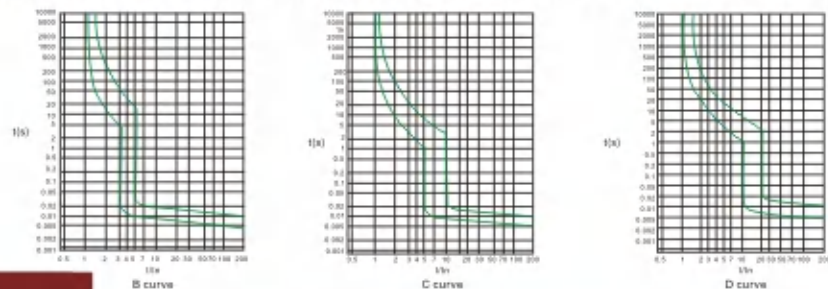
C curve(5-10 In)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.

D curve(10-14 In)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

Curves

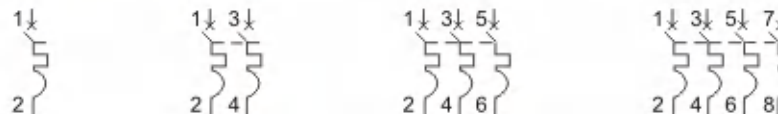
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



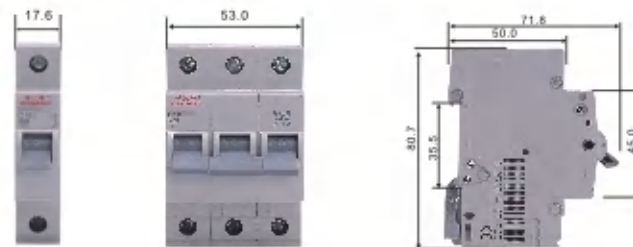
SPECIFICATIONS

	Standard	IEC/EN60898-1	
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	AC 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	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs.	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast dip device
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





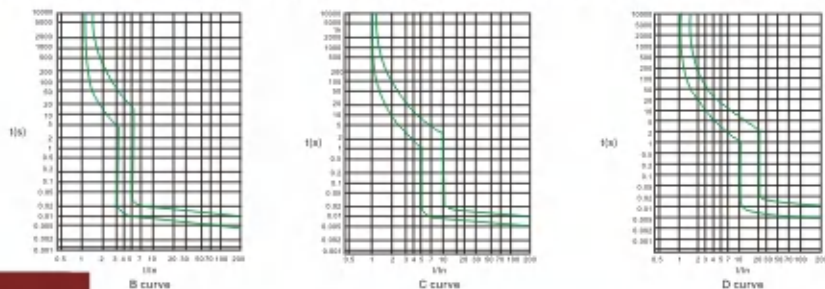
GENERAL

- 1.Application:For protecting cables and equipments against overload and short circuit.
- 2.General rules for choosing MCB.

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

SPECIFICATIONS

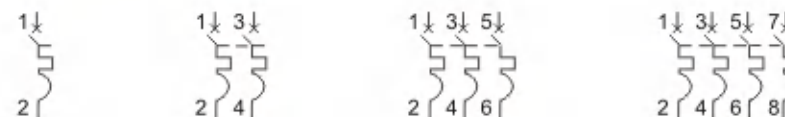
Curves
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



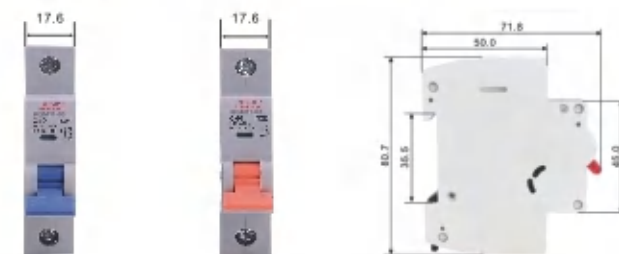
SPECIFICATIONS

	Standard	IEC/EN60898-1	
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	AC 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	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
Tightening torque	N*m	2	
	In-lbs.	18	
Mounting		On DIN rail EN 60715(35mm)by means of fast dip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





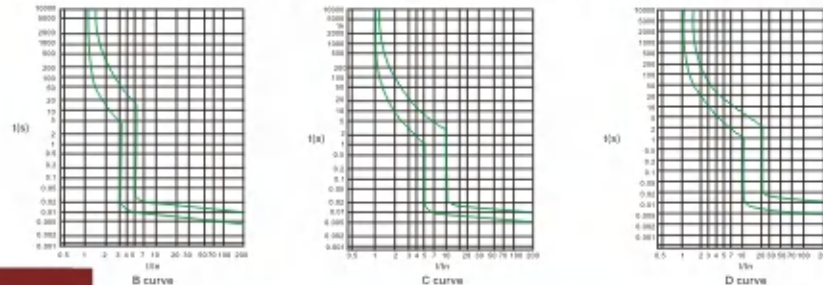
GENERAL

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- 2.General rules for choosing MCB.

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SPECIFICATIONS

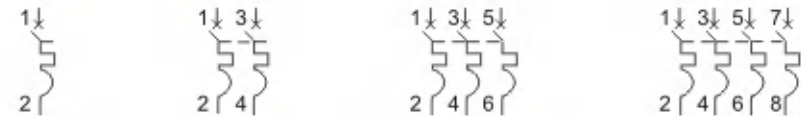
Curves
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



SPECIFICATIONS

Standard		IEC/EN60898-1	
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	AC 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	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
Reference temperature for setting of thermal element	°C		30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	m ²	
AWG			18-5
Terminal size top/bottom for busbar	m ²		16
	AWG		18-5
Tightening torque	N*m		2
	In-lbs.		18
Mounting			On DIN rail EN 60715(35mm)by means of fast dip device
Connection			From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





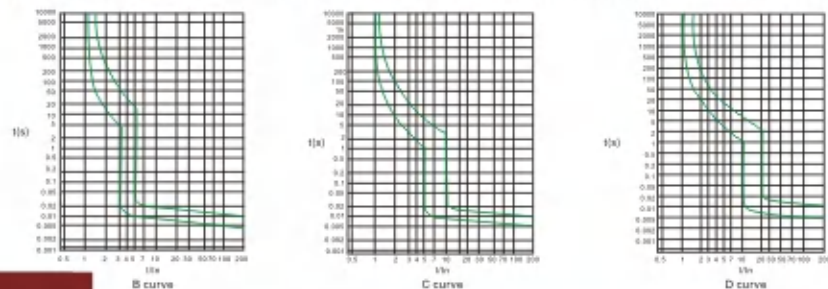
GENERAL

- 1.Application:For protecting cables and equipments against overload and short circuit.
- 2.General rules for choosing MCB.

- a.Technical data of the network at the point considered:
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D curve(10-14 In)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

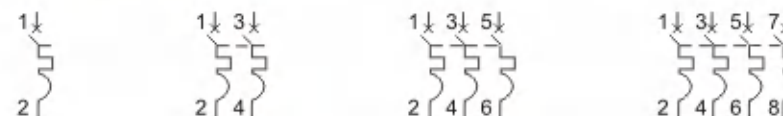
Curves
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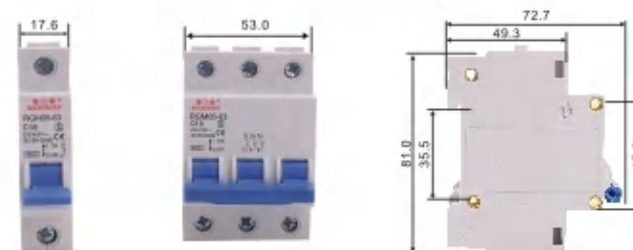
SPECIFICATIONS

	Standard	IEC/EN60898-1	
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	AC 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	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs.	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast dip device
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.Application:For protecting cables and equipments against overload and short circuit.

2.General rules for choosing MCB.

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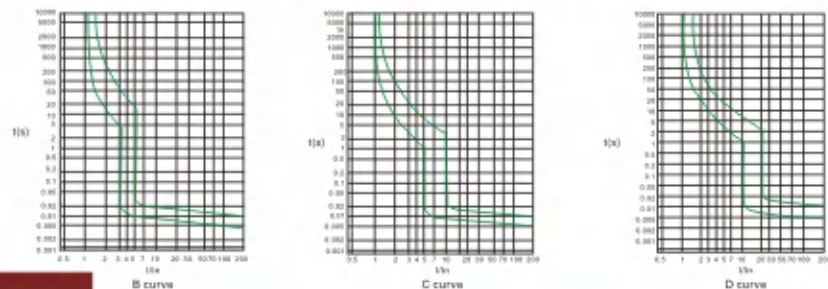
C curve(5-10 In)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.

D curve(10-14 In)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

Curves

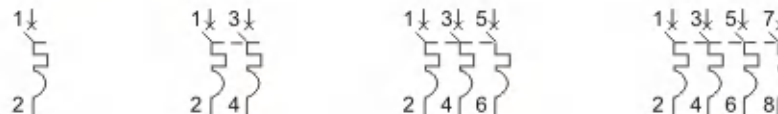
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



SPECIFICATIONS

	Standard	IEC/EN60898-1	
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	AC 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	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
Reference temperature for setting of thermal element	°C		30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	m ² AWG	16 18-5
	Terminal size top/bottom for busbar	m ² AWG	16 18-5
Tightening torque	N*m		2
	In-lbs.		18
Mounting			On DIN rail EN 60715(35mm)by means of fast dip device
Connection			From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





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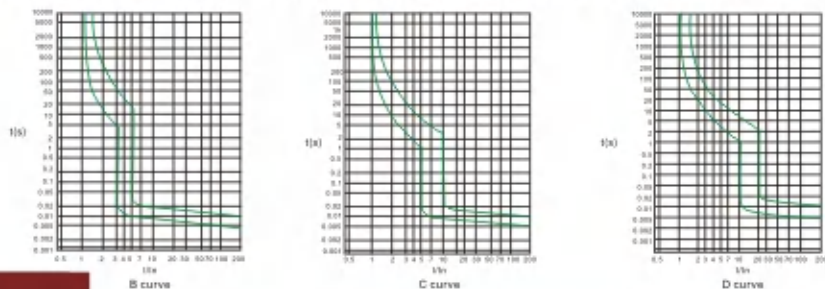
C curve(5-10 In)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.

D curve(10-14 In)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

Curves

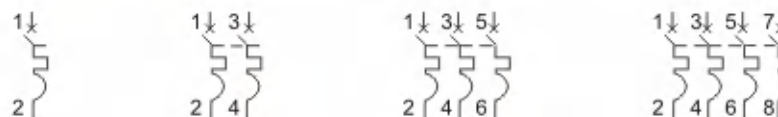
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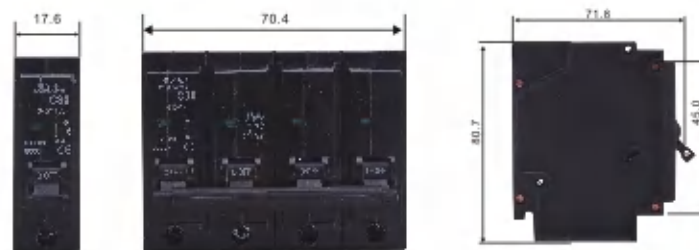
SPECIFICATIONS

Standard		IEC/EN60898-1		
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	AC 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	4000	
	Dielectric test voltage at ind.Freq for 1min	kV	2	
	Pollution degree		2	
	Thermo-magnetic release characteristic		B,C,D	
Mechanical Features	Electrical life	t	4000	
	Mechanical life	t	10000	
	Protection degree		IP20	
Reference temperature for setting of thermal element	°C		30	
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
	Terminal connection type		Cable/ pin-type busbar	
	Terminal size top/bottom for cable	mm ²		16
		AWG		18-5
	Terminal size top/bottom for busbar	mm ²		16
		AWG		18-5
Tightening torque	N*m		2	
	In-lbs		18	
Mounting			On DIN rail EN 60715(35mm)by means of fast dip device	
Connection			From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.Application:For protecting cables and equipments against overload and short circuit.

2.General rules for choosing MCB.

a. Technical data of the network at the point considered:

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

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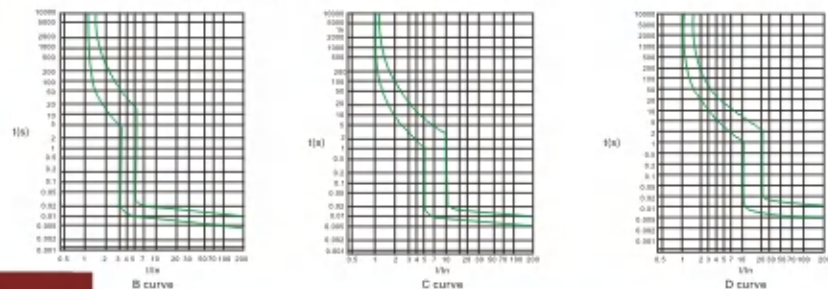
C curve(5-10 In)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.

D curve(10-14 In)protection and control of the circuits against overloads and short-circuits;prtfection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

Curves

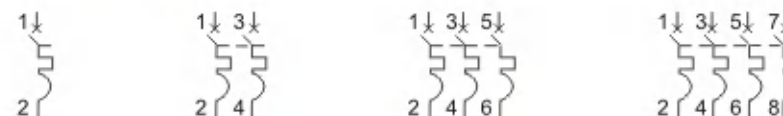
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



SPECIFICATIONS

	Standard	IEC/EN60898-1	
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	AC 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	4000
	Dielectric test voltage at ind.Freq for 1 min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast dip device
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





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2.General rules for choosing MCB.

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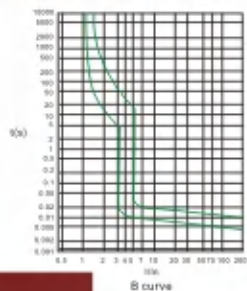
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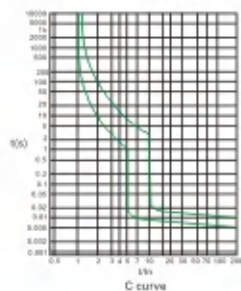
SPECIFICATIONS

Curves

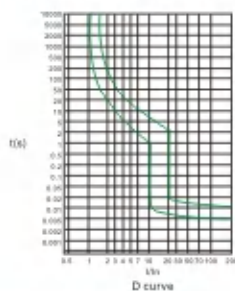
LFM07/08-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



B curve



C curve

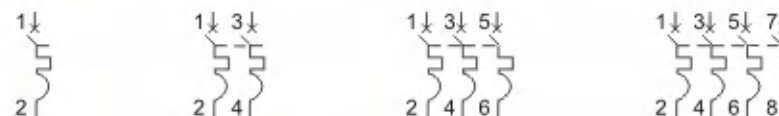


D curve

SPECIFICATIONS

Standard		IEC/EN60898-1		
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	AC 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	4000	
	Dielectric test voltage at ind.Freq for 1min	kV	2	
	Pollution degree		2	
	Thermo-magnetic release characteristic			B,C,D
Mechanical	Electrical life	t	4000	
	Mechanical life	t	10000	
	Protection degree		IP20	
Features	Reference temperature for setting of thermal element	°C	30	
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)	
Installation	Storage temperature	°C	-25~+70	
	Terminal connection type		Cable/ pin-type busbar	
	Terminal size top/bottom for cable	m ²		25
		AWG		18-3
	Terminal size top/bottom for busbar	m ²		25
		AWG		18-3
	Tightening torque	N*m		2
In-lbs.			18	
Mounting			On DIN rail EN 60715(35mm)/by means of fast dip device	
Connection			From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





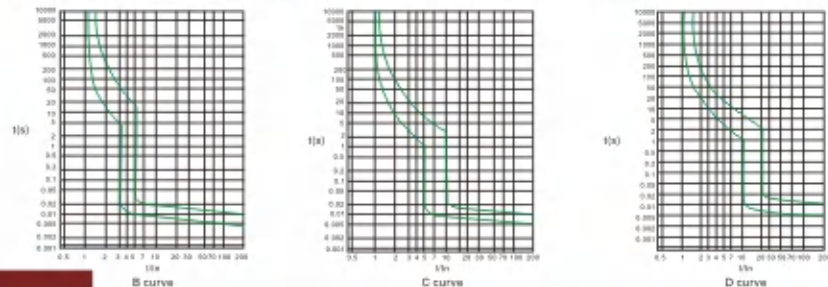
GENERAL

- 1.Application:For protecting cables and equipments against overload and short circuit.
- 2.General rules for choosing MCB.

- a.Technical data of the network at the point considered:
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SPECIFICATIONS

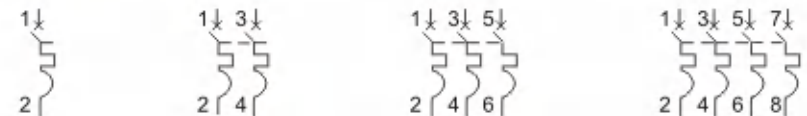
Curves
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



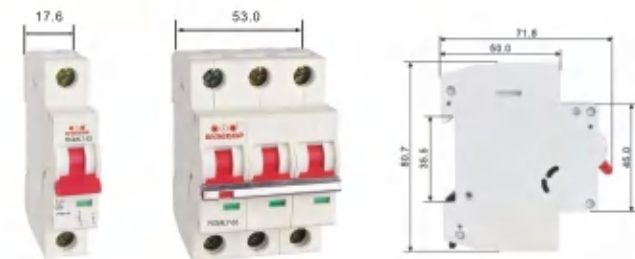
SPECIFICATIONS

Standard		IEC/EN60898-1	
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	AC 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	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
Mechanical Features	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs.	18
Mounting		On DIN rail EN 60715(35mm)by means of fast dip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.Application:For protecting cables and equipments against overload and short circuit.

2.General rules for choosing MCB.

a. Technical data of the network at the point considered:

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

b. There are 3 curve characteristics for magnetic operation:

B curve(3-5 I_n)protection and control of the circuits against length cables in TN and IT systems.

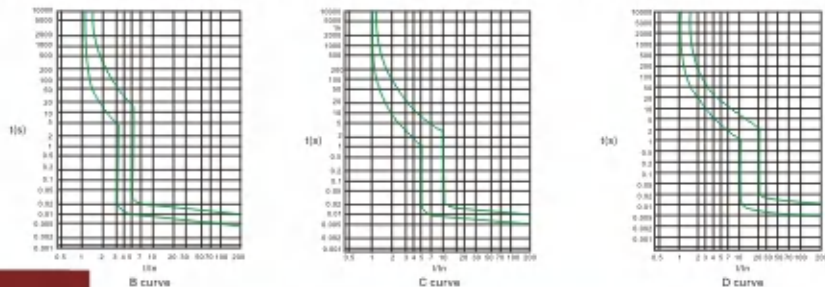
C curve(5-10 I_n)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.

D curve(10-14 I_n)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

Curves

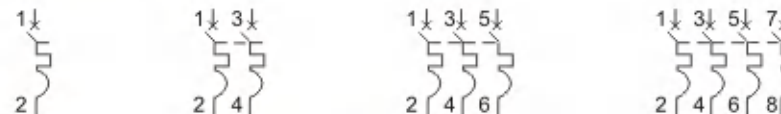
LFM11-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



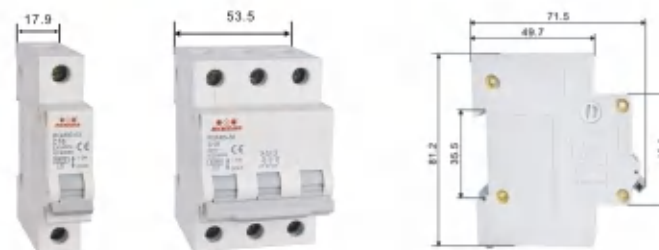
SPECIFICATIONS

Standard		IEC/EN60898-1	
Electrical features	Rated current I _n	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage U _e	V	AC 240/415
	Insulation voltage U _i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	4500, 6000
	Rated impulse withstand voltage(1.2/50)U _{imp}	V	4000
	Dielectric test voltage at ind.Freq for 1min	KV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2
In-lbs.		18	
Mounting		On DIN rail EN 60715(35mm)/by means of fast dip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





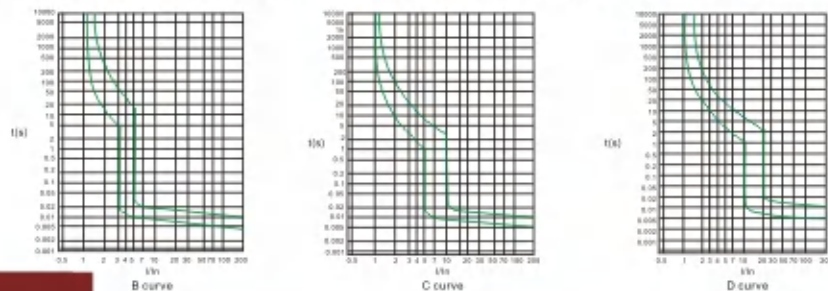
GENERAL

- 1.Application:For protecting cables and equipments against overload and short circuit.
- 2.General rules for choosing MCB.

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

SPECIFICATIONS

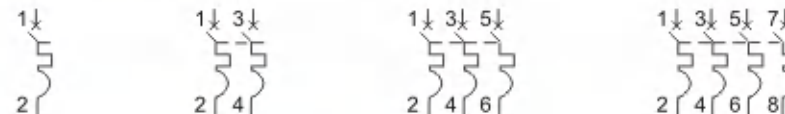
Curves
LFM13-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



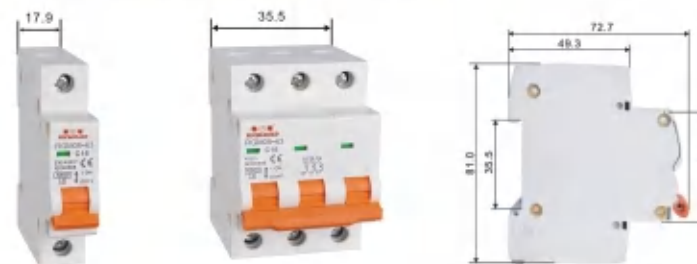
SPECIFICATIONS

Standard		IEC/EN60898-1		
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	AC 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	4000	
	Mechanical life	t	10000	
	Protection degree		IP20	
Installation	Reference temperature for setting of thermal element	°C	30	
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
	Terminal connection type		Cable/ pin-type busbar	
	Terminal size top/bottom for cable	mm ²		25
AWG			18-3	
Terminal size top/bottom for busbar		mm ²		25
		AWG		18-3
Tightening torque	N*m		2	
	In-lbs		18	
Mounting	On DIN rail EN 60715(35mm)by means of fast dip device			
Connection	From top and bottom			

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





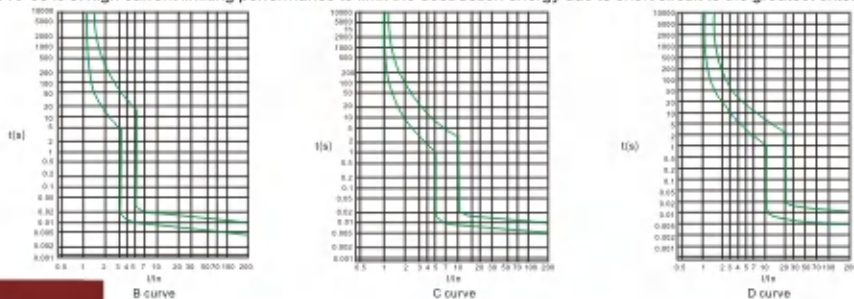
GENERAL

- 1.Application:For protecting cables and equipments against overload and short circuit.
- 2.General rules for choosing MCB.

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

SPECIFICATIONS

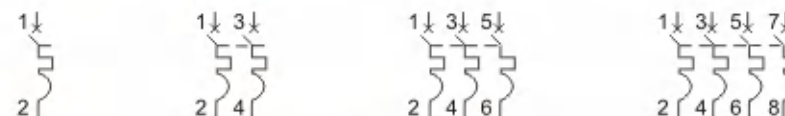
Curves
LFM09/10-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



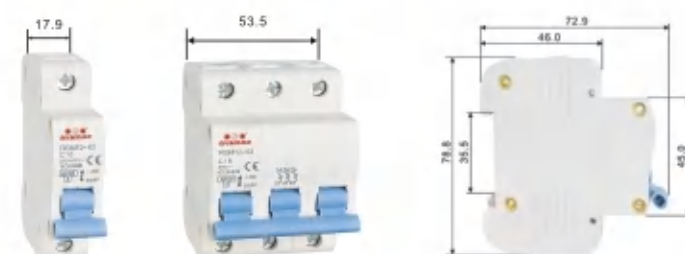
SPECIFICATIONS

	Standard	IEC/EN60898-1	
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	AC 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	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	25
		AWG	18-3
	Terminal size top/bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs.	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast dip device
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)



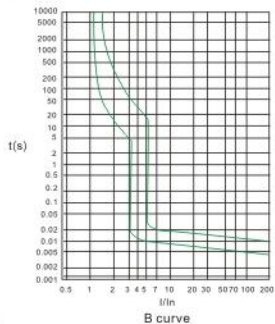


GENERAL

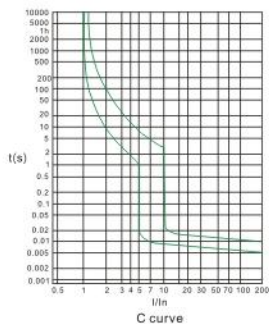
- 1.Application
For protecting equipments against overload and short circuit.
- 2.General rules for choosing MCB
 - a. Technical data of the network at the point considered:
The earthing systems,short-circuit at the circuit breaker installation point. which must always be less than the breaking capacity of this device,network normal voltage.
 - b. There is 2 curve characteristics for ZGM21-N magnetic operation:
B curve(3-10 In)protection and control of the circuits against overloads and short-circuits;
C curve(5-10 In) protection and control of the circuits against overloads and short-circuits;protection for resistive and inductive loads with low inrush current.

SPECIFICATIONS

Curve



B curve



C curve

SPECIFICATIONS

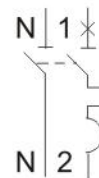
Standard		IEC/EN60898-1	
Electrical features	Rated current In	A	2,4,6,10,16,20,25,32,40
	Poles	P	1P+N
	Rated voltage Ue	V	AC 230
	Insulation voltage Ui	A	300
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000, 4500
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq for 1min	kV	2
	Pollution degree		2
	Mechanical	Electrical life	t
Mechanical life		t	10000
Contact position indicator			Yes
Protection degree			IP20
Features	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal size top/bottom for cable		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
In-lbs.		18	
Connection			From top

TEMPERATURE DERATING

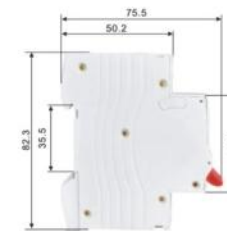
Please refer to table below for temperature compensation correction.

Rated current In(A)	Temperature compensation coefficient under various operational temperature20				
6	1.07	1.00	0.93	0.85	0.77
10	1.05	1.00	0.94	0.88	0.81
16	1.09	1.00	0.90	0.88	0.83
20	1.05	1.00	0.94	0.88	0.81
25	1.04	1.00	0.94	0.88	0.80
32	1.06	1.00	0.93	0.86	0.78

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.Application

For protecting equipments against overload and short circuit.

2.General rules for choosing MCB

a. Technical data of the network at the point considered:

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

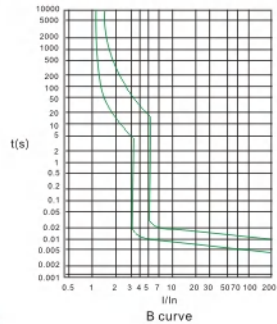
b. There is 2 curve characteristics for ZGM21-N magnetic operation:

B curve(3-10 In) protection and control of the circuits against overloads and short-circuits;

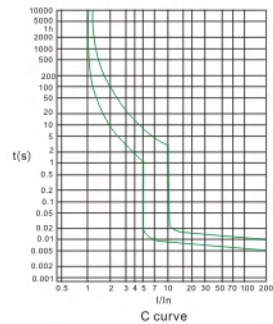
C curve(5-10 In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

SPECIFICATIONS

Curve



B curve



C curve

SPECIFICATIONS

Standard		IEC/EN60898-1	
Electrical features	Rated current In	A	2,4,6,10,16,20,25,32
	Poles	P	1P+N
	Rated voltage Ue	V	AC 230
	Insulation voltage Ui	A	300
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000, 4500
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
Mechanical Features	Dielectric test voltage at ind.Freq for 1min	kV	2
	Pollution degree		2
	Electrical life	t	4000
	Mechanical life	t	10000
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal size top/bottom for cable		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
Tightening torque	N*m	2	
	lbf-in.	18	
Connection		From top	

TEMPERATURE DERATING

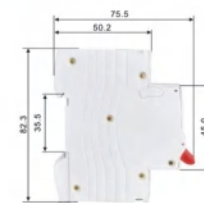
Please refer to table below for temperature compensation correction.

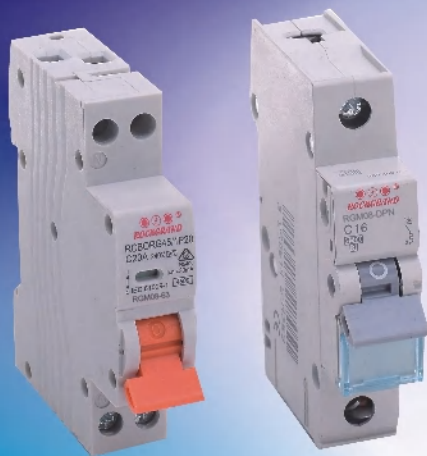
Rated current In(A)	Temperature compensation coefficient under various operational temperature20				
6	1.07	1.00	0.93	0.85	0.77
10	1.05	1.00	0.94	0.88	0.81
16	1.09	1.00	0.90	0.88	0.83
20	1.05	1.00	0.94	0.88	0.81
25	1.04	1.00	0.94	0.88	0.80
32	1.06	1.00	0.93	0.86	0.78

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.Application:For protecting cables and equipments against overload and short circuit.

2.General rules for choosing MCB.

a. Technical data of the network at the point considered:

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

b. There are 3 curve characteristics for magnetic operation:

B curve(3-5 I_n)protection and control of the circuits against length cables in TN and IT systems.

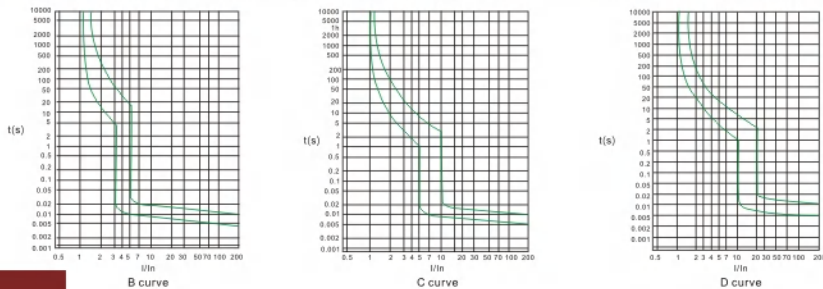
C curve(5-10 I_n)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.

D curve(10-14 I_n)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

Curves

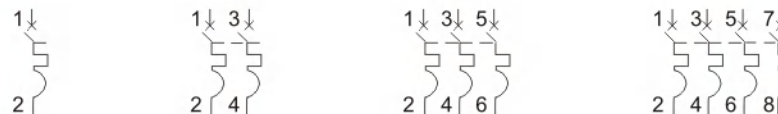
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



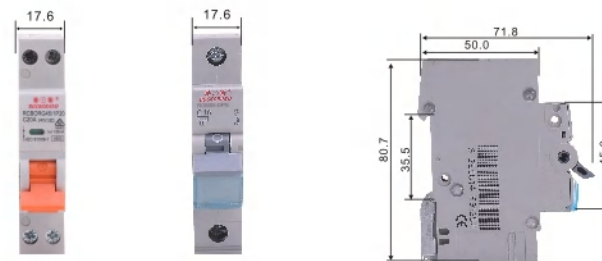
SPECIFICATIONS

	Standard	IEC/EN60898-1	
Electrical features	Rated current I _n	A	1,2,4,6,10,16,20,25,32,40
	Poles	P	1,2,3,4
	Rated voltage U _e	V	AC 240
	Insulation voltage U _i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000
	Rated impulse withstand voltage(1.2/50)U _{imp}	V	4000
	Dielectric test voltage at ind.Freq for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
Features	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs.	18
Mounting		On DIN rail EN 60715(35mm)by means of fast clip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)



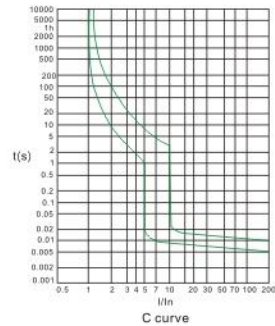
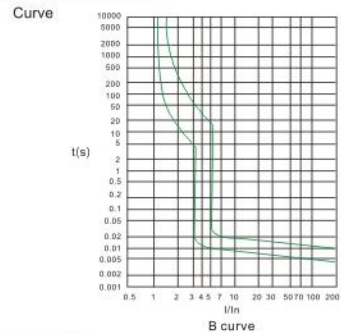


GENERAL

1.General rules for choosing RCBO:

- a. Rated residual operating current $I_{\Delta n}=30$ mA: additional protection in the case of direct contact
- b. Tripping class
AC class-Tripping is ensured for sinusoidal alternating currents, whether they be quickly applied or slowly increase.
- c. Tripping curve
B curve(3-5 I_n) protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.
C curve(5-10 I_n) protection and control of the circuits against overloads and short circuits; protection for resistive and inductive loads with low inrush current.

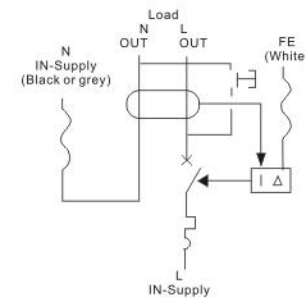
SPECIFICATIONS



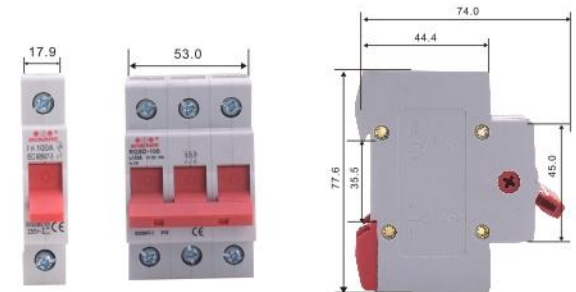
SPECIFICATIONS

Standard		IEC/EN61009-1	
Electrical features	Mode		Electronic type
	Type(wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		B,C
	Rated current I_n	A	2,4,6,10,16,20,25,32,40
	Poles	P	1P+N
	Rated voltage U_e	V	AC 240
	Rated sensitivity $I_{\Delta n}$	A	0.01,0.03,0.1
	Rated residual making and Breaking capacity $I_{\Delta m}$	A	500
	Rated short-circuit capacity I_{cn}	A	4500
	Break time under $I_{\Delta n}$	s	≤ 0.1
Mechanical Features	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
	Dielectric test voltage at ind.Freq for 1min	kV	2
	Insulation voltage U_i	V	500
	Pollution degree		2
	Electrical life		4000
	Mechanical life		8000
	Contact position Indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
Installation	Storage temperature	°C	-25~+70
	Terminal connection type		Cable/ U-type busbar/pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
Tightening torque	N*m	2	
	ln-lbs.	18	
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device	
		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)



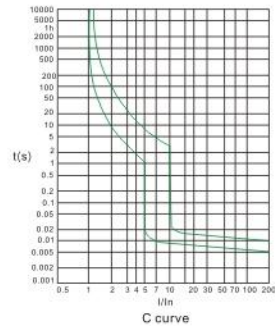
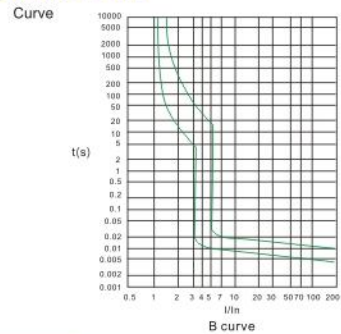


GENERAL

1. General rules for choosing RCBO:

- a. Rated residual operating current $I_{\Delta n} = 30 \text{ mA}$: additional protection in the case of direct contact
- b. Tripping class
AC class-Tripping is ensured for sinusoidal alternating currents, whether they be quickly applied or slowly increase.
- c. Tripping curve
B curve(3-5 I_n) protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.
C curve(5-10 I_n) protection and control of the circuits against overloads and short circuits; protection for resistive and inductive loads with low inrush current.

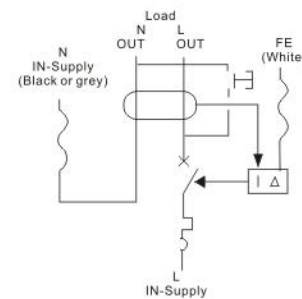
SPECIFICATIONS



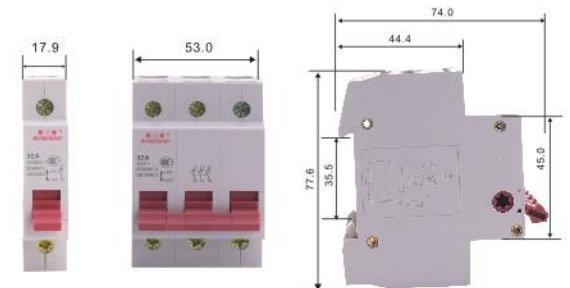
SPECIFICATIONS

Standard		IEC/EN61009-1	
Electrical features	Mode		Electronic type
	Type(wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		B,C
	Rated current I_n	A	2,4,6,10,16,20,25,32,40
	Poles	P	1P+N
	Rated voltage U_e	V	AC 240
	Rated sensitivity $I_{\Delta n}$	A	0.01,0.03,0.1
	Rated residual making and Breaking capacity $I_{\Delta m}$	A	500
	Rated short-circuit capacity I_{cn}	A	4500
	Break time under $I_{\Delta n}$	s	≤ 0.1
Mechanical Features	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
	Dielectric test voltage at ind. Freq for 1min	kV	2
	Insulation voltage U_i	V	500
	Pollution degree		2
	Electrical life		4000
	Mechanical life		8000
	Contact position Indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$^\circ\text{C}$	-5~+40(special application please refer to temperature compensation correction)
Storage temperature	$^\circ\text{C}$	-25~+70	
Installation	Terminal connection type		Cable/ U-type busbar/pin-type busbar
	Terminal size top/bottom for cable	mm^2	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm^2	16
		AWG	18-5
	Tightening torque	$\text{N}\cdot\text{m}$	2
	$\text{In}\cdot\text{lbs.}$	18	
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device	
		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

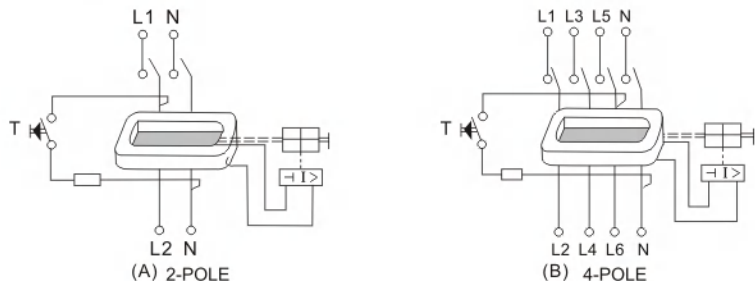




GENERAL

The item is in comply with standard of IEC61008-1, applying to the circuit of AC 50/60Hz,230V single phase,400V three phases or below it for industrial and mining enterprise,trade building,commerce and family.It is mainly used for preventing electric fire and personal casual accident caused by personal electric shock or leakage of electrified wire net,this is a current operated,fast leakage protector of pure electromagnetic type,which can break off fault circuit rapidly in order to avoid occurrence of accident.The item is precise in structure,less elements,without auxiliary power and high working reliability.The function of the switch won't be influenced by ambient temperature and lightning.The mutual inductor of the item is used to test vector differential value of passing current,and produces a relevant output power and add it to the tripper in secondary winding,if the current of vector differential value of protected circuit of personal electric shock is up to or over leakage operating current,the tripper will act and cut off so that the item will take effect of protection.

WORKING PRINCIPLE



SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type,electronic type	
	Type(wave form of the earth leakage sensed)	A,AC	
	Rated current I _n	A 16,25,32,40,63	
	Poles	P 2,4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01,0.03,0.1,0.3,0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 630	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 25 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 25
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

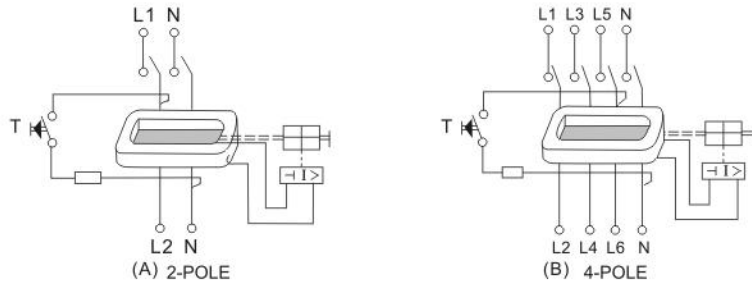




GENERAL

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WORKING PRINCIPLE



SPECIFICATIONS

Standard		IEC/EN61008	
Electrical features	Mode	Electro-magnetic type,electronic type	
	Type(wave form of the earth leakage sensed)	A,AC	
	Rated current I _n	A 16,25,32,40,63,80,100	
	Poles	2,4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity IΔn	A 0.01,0.03,0.1,0.3,0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity IΔm	A 1000	
	Short-circuit current IΔc	A 6000	
	SCPD fuse	A 6000	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 35 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 35
AWG 18-3			
N*m 2.5 In-lbs. 22			
Tightening torque			
Mounting Connection	On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom		

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

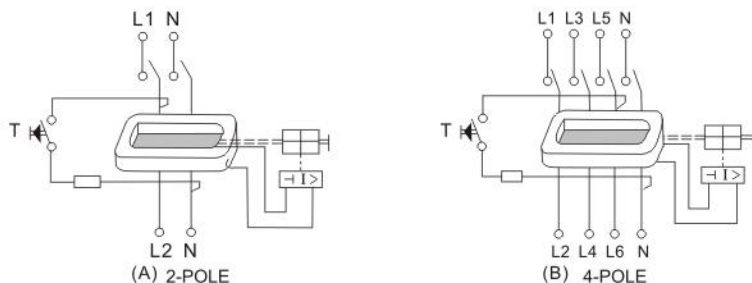




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WORKING PRINCIPLE



SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type, electronic type	
	Type(wave form of the earth leakage sensed)	A, AC	
	Rated current I _n	A 16, 25, 32, 40, 63	
	Poles	P 2, 4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01, 0.03, 0.1, 0.3, 0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 630	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤ 35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 25 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 25
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm) by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

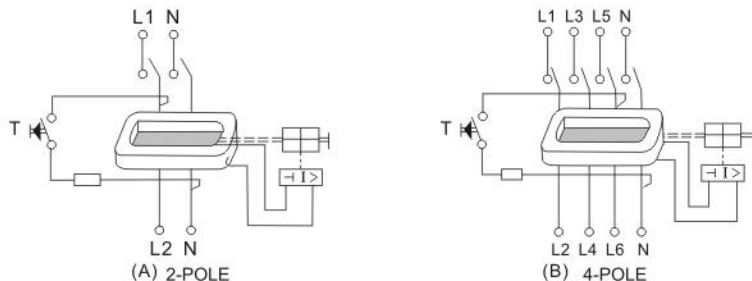




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WORKING PRINCIPLE



SPECIFICATIONS

	Standard	IEC/EN61008
Electrical features	Mode	Electro-magnetic type,electronic type
	Type(wave form of the earth leakage sensed)	A,AC
	Rated current In	A 16,25,32,40,63,80,100
	Poles	P 2,4
	Rated voltage Ue	V AC 240/415
	Rated sensitivity IΔn	A 0.01,0.03,0.1,0.3,0.5
	Insulation voltage Ui	V 500
Mechanical Features	Rated residual making and Breaking capacity IΔm	A 1000
	Short-circuit current IΔc	A 6000
	SCPD fuse	A [6000]
	Rated frequency	Hz 50/60
	Pollution degree	2
	Electrical life	t 4000
	Mechanical life	t 10000
	Protection degree	IP20
	Ambient temperature (with daily average ≤35°C)	°C -25~+40
	Storage temperature	°C -25~+70
Installation	Terminal connection type	Cable/ U-type busbar/pin-type busbar
	Terminal size top/bottom for cable	mm ² 35
		AWG 18-3
	Terminal size top/bottom for busbar	mm ² 35
		AWG 18-3
	Tightening torque	N*m 2.5 In-lbs. 22
Mounting Connection	On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

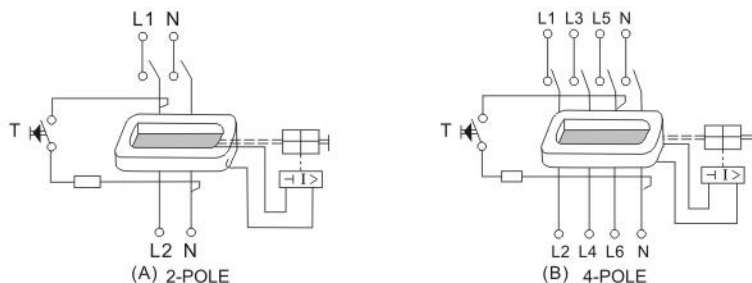




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WORKING PRINCIPLE



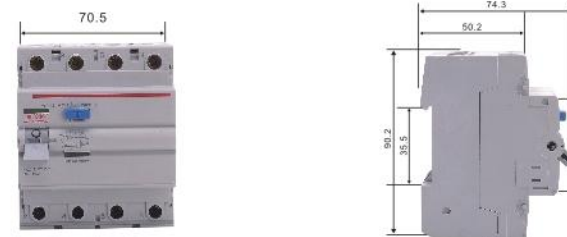
SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type, electronic type	
	Type(wave form of the earth leakage sensed)	A, AC	
	Rated current I _n	A 16, 25, 32, 40, 63, 80, 100	
	Poles	2, 4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01, 0.03, 0.1, 0.3, 0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 1000	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤ 35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 35 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 35
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm) by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

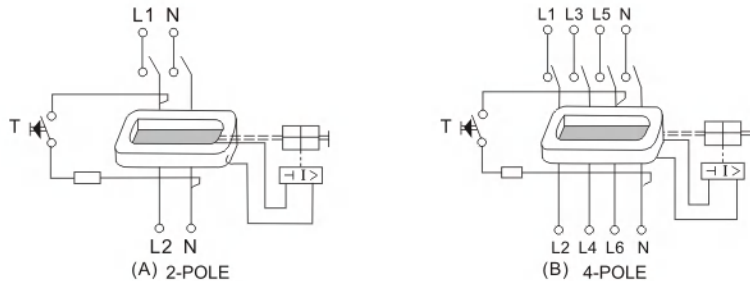




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WORKING PRINCIPLE



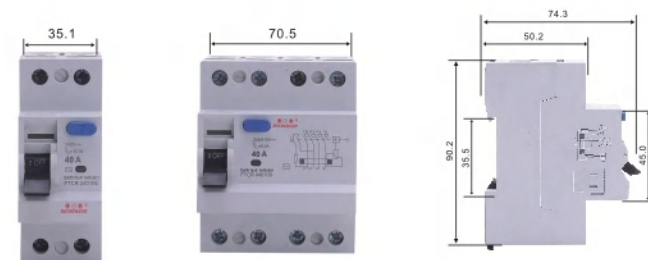
SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type,electronic type	
	Type(wave form of the earth leakage sensed)	A,AC	
	Rated current I _n	A 16,25,32,40,63,80,100	
	Poles	P 2,4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01,0.03,0.1,0.3,0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 1000	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤35°C)	°C -25--+40	
	Storage temperature	°C -25--+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 35 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 35 AWG 18-3
Tightening torque			N*m 2.5 In-lbs. 22
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

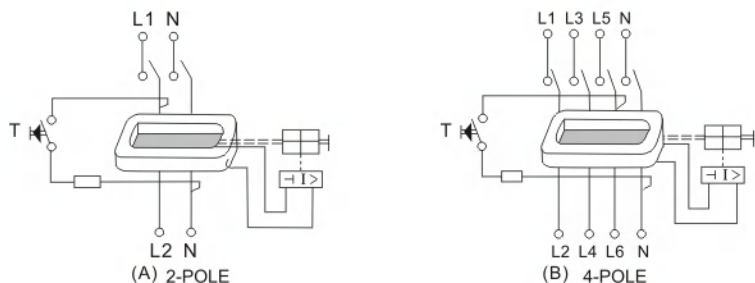




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WORKING PRINCIPLE



SPECIFICATIONS

	Standard	IEC/EN61008
Electrical features	Mode	Electro-magnetic type,electronic type
	Type(wave form of the earth leakage sensed)	A,AC
	Rated current I _n	A 16,25,32,40,63
	Poles	P 2,4
	Rated voltage U _e	V AC 240/415
	Rated sensitivity IΔ _n	A 0.01,0.03,0.1,0.3,0.5
	Insulation voltage U _i	V 500
Mechanical Features	Rated residual making and Breaking capacity IΔ _m	A 630
	Short-circuit current IΔ _c	A 6000
	SCPD fuse	A [6000]
	Rated frequency	Hz 50/60
	Pollution degree	2
	Electrical life	t 4000
	Mechanical life	t 10000
	Protection degree	IP20
	Ambient temperature (with daily average ≤35°C)	°C -25~+40
	Storage temperature	°C -25~+70
Installation	Terminal connection type	Cable/ U-type busbar/pin-type busbar
	Terminal size top/bottom for cable	mm ² 25 AWG 18-3
	Terminal size top/bottom for busbar	mm ² 25 AWG 18-3
	Tightening torque	N*m 2.5 In-lbs. 22
	Mounting	On DIN rail EN 6071 5(35mm)by means of fast clip device
	Connection	From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

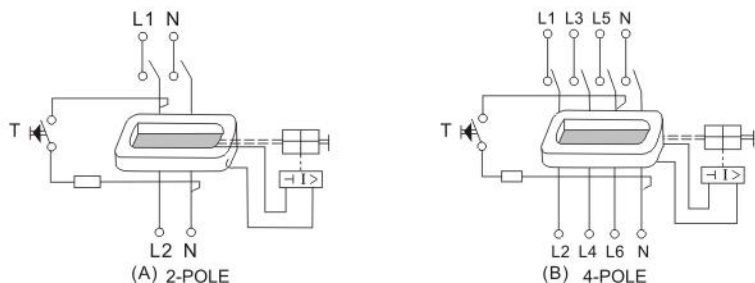




GENERAL

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WORKING PRINCIPLE



SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type,electronic type	
	Type(wave form of the earth leakage sensed)	A,AC	
	Rated current I _n	A 16,25,32,40,63,80,100,125	
	Poles	P 2,4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01,0.03,0.1,0.3,0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 630	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 8000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 25 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 25
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

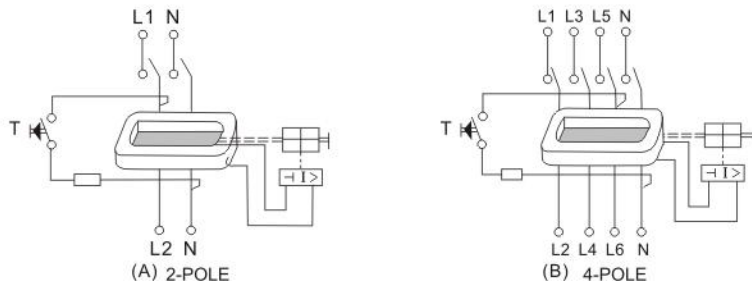




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WORKING PRINCIPLE



SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type, electronic type	
	Type (wave form of the earth leakage sensed)	A, AC	
	Rated current I _n	A 16, 25, 32, 40, 63	
	Poles	2, 4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01, 0.03, 0.1, 0.3, 0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 630	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 8000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤ 35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	m ² 25 AWG 18-3
		Terminal size top/bottom for busbar	m ² 25
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm) by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

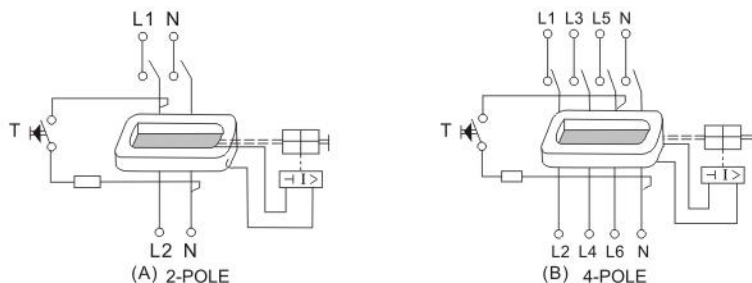




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WORKING PRINCIPLE



SPECIFICATIONS

	Standard	IEC/EN61008
Electrical features	Mode	Electro-magnetic type,electronic type
	Type(wave form of the earth leakage sensed)	A,AC
	Rated current I _n	A 16,25,32,40,63
	Poles	P 2,4
	Rated voltage U _e	V AC 240/415
	Rated sensitivity IΔn	A 0.01,0.03,0.1,0.3,0.5
	Insulation voltage U _i	V 500
Mechanical Features	Rated residual making and Breaking capacity IΔm	A 630
	Short-circuit current IΔc	A 6000
	SCPD fuse	A [6000]
	Rated frequency	Hz 50/60
	Pollution degree	2
	Electrical life	t 4000
	Mechanical life	t 8000
	Protection degree	IP20
	Ambient temperature (with daily average ≤35°C)	°C -25--+40
	Storage temperature	°C -25--+70
Installation	Terminal connection type	Cable/ U-type busbar/pin-type busbar
	Terminal size top/bottom for cable	mm ² 25 AWG 18-3
	Terminal size top/bottom for busbar	mm ² 25 AWG 18-3
	Tightening torque	N*m 2.5 In-lbs. 22
	Mounting Connection	On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

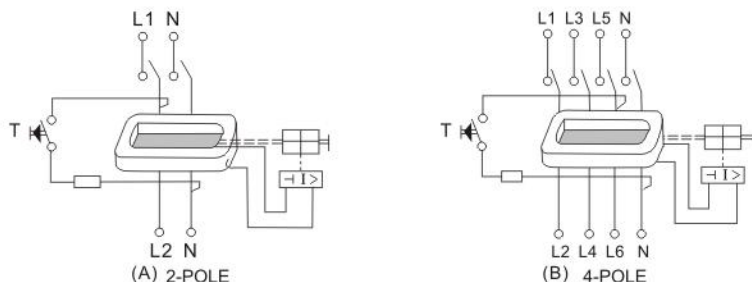




GENERAL

The item is in comply with standard of IEC61008-1, applying to the circuit of AC 50/60Hz, 230V single phase, 400V three phases or below it for industrial and mining enterprise, trade building, commerce and family. It is mainly used for preventing electric fire and personal casual accident caused by personal electric shock or leakage of electrified wire net, this is a current operated, fast leakage protector of pure electromagnetic type, which can break off fault circuit rapidly in order to avoid occurrence of accident. The item is precise in structure, less elements, without auxiliary power and high working reliability. The function of the switch won't be influenced by ambient temperature and lightning. The mutual inductor of the item is used to test vector differential value of passing current, and produces a relevant output power and add it to the tripper in secondary winding, if the current of vector differential value of protected circuit of personal electric shock is up to or over leakage operating current, the tripper will act and cut off so that the item will take effect of protection.

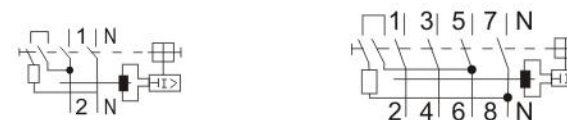
WORKING PRINCIPLE



SPECIFICATIONS

	Standard	IEC/EN61008
	Mode	Electro-magnetic type, electronic type
Electrical features	Type (wave form of the earth leakage sensed)	A, AC
	Rated current I _n	A 16, 25, 32, 40, 63, 80, 125
	Poles	2, 4
	Rated voltage U _e	V AC 240/415
	Rated sensitivity I _{Δn}	A 0.01, 0.03, 0.1, 0.3, 0.5
	Insulation voltage U _i	V 500
Mechanical Features	Rated residual making and Breaking capacity I _{Δm}	A 1250
	Short-circuit current I _{Δc}	A 6000
	SCPD fuse	A [6000]
	Rated frequency	Hz 50/60
	Pollution degree	2
	Electrical life	t 4000
	Mechanical life	t 10000
	Protection degree	IP20
	Ambient temperature (with daily average ≤ 35°C)	°C -25~+40
	Storage temperature	°C -25~+70
Installation	Terminal connection type	Cable/ U-type busbar/pin-type busbar
	Terminal size top/bottom for cable	mm ² 35
		AWG 18-3
	Terminal size top/bottom for busbar	mm ² 35
		AWG 18-3
	Tightening torque	N*m 2.5 In-lbs. 22
Mounting Connection	On DIN rail EN 6071 5 (35mm) by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS (MM)





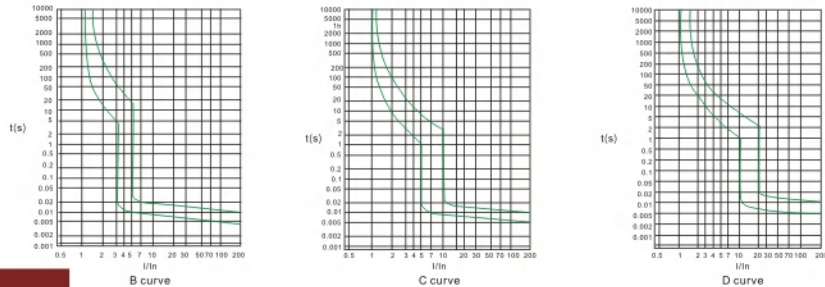
GENERAL

- 1.Application:For protecting cables and equipments against overload and short circuit.
- 2.General rules for choosing MCB.

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

SPECIFICATIONS

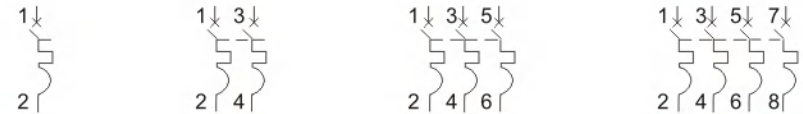
Curves
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



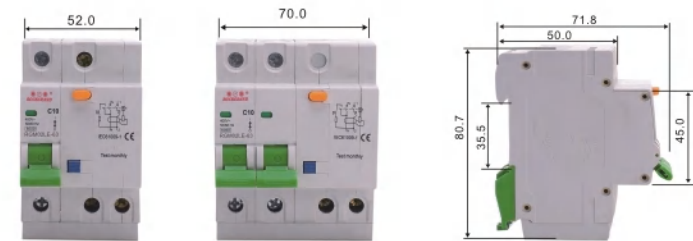
SPECIFICATIONS

Standard		IEC/EN60898-1	
Electrical features	Rated current I _n	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage U _e	V	AC 240/415
	Insulation voltage U _i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000, 10000
	Rated impulse withstand voltage(1.2/50)U _{imp}	V	4000
	Dielectric test voltage at ind.Freq for 1min	kV	2
Mechanical Features	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
	l _n -lbs.	18	
Mounting		On DIN rail EN 60715(35mm)by means of fast clip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.Application:For protecting cables and equipments against overload and short circuit.

2.General rules for choosing MCB.

a. Technical data of the network at the point considered:

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

b. There are 3 curve characteristics for magnetic operation:

B curve(3-5 I_n)protection and control of the circuits against length cables in TN and IT systems.

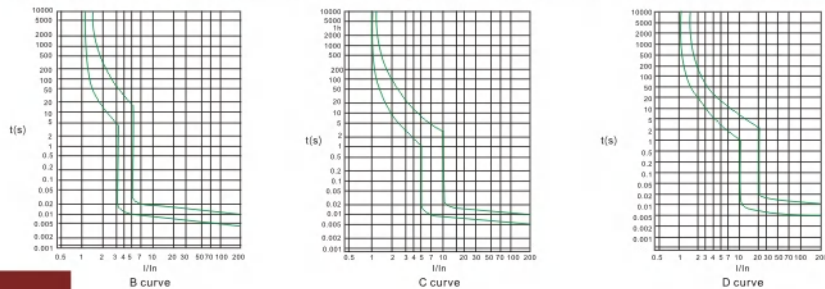
C curve(5-10 I_n)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.

D curve(10-14 I_n)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

Curves

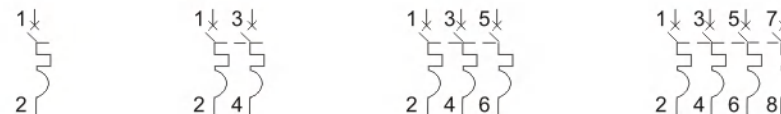
LF05/06-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



SPECIFICATIONS

Standard		IEC/EN60898-1	
Electrical features	Rated current I _n	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage U _e	V	AC 240/415
	Insulation voltage U _i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000, 10000
	Rated impulse withstand voltage(1.2/50)U _{imp}	V	4000
	Dielectric test voltage at ind.Freq for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical Features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
Features	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/ pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs.	18
Mounting		On DIN rail EN 60715(35mm)by means of fast clip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





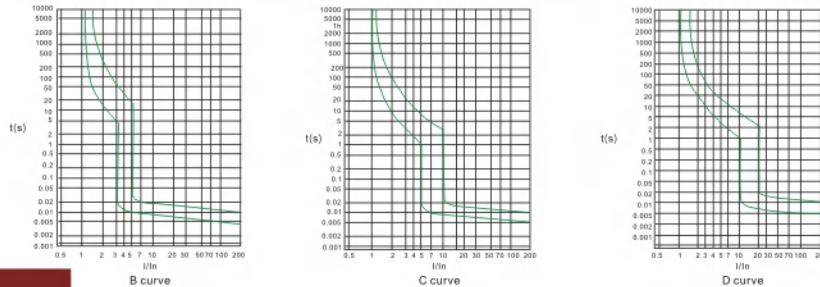
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B curve(3-5 In)protection and control of the circuits against length cables in TN and IT systems.
C curve(5-10 In)protection and control of the circuits against overloads and short-circuits;proection for resistive and inductive loads with low inrush current.
D curve(10-14 In)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

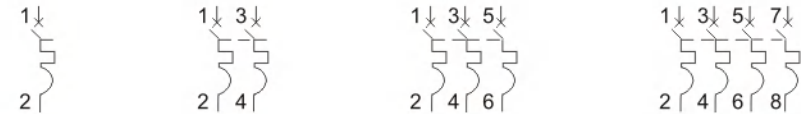
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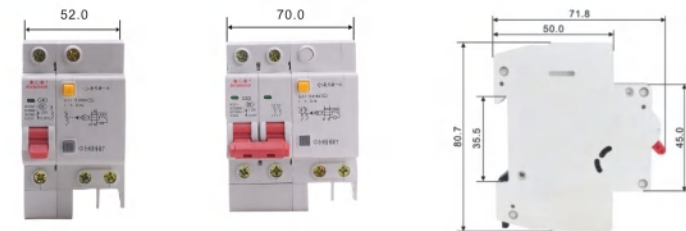
SPECIFICATIONS

Standard		IEC/EN60898-1		
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	AC 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	4000	
	Dielectric test voltage at ind.Freq for 1min	kV	2	
	Pollution degree		2	
	Thermo-magnetic release characteristic		B,C,D	
Mechanical	Electrical life	t	4000	
	Mechanical life	t	10000	
	Protection degree		IP20	
Features	Reference temperature for setting of thermal element	°C	30	
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)	
Installation	Storage temperature	°C	-25~+70	
	Terminal connection type		Cable/ pin-type busbar	
	Terminal size top/bottom for cable	mm ²		16
		AWG		18-5
	Terminal size top/bottom for busbar	mm ²		16
		AWG		18-5
	Tightening torque	N*m		2
	In-lbs.		18	
Mounting			On DIN rail EN 60715(35mm)by means of fast clip device	
Connection			From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





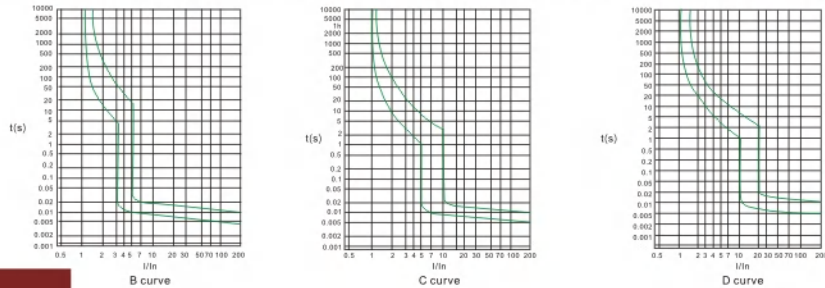
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D curve(10-14 In)protection and control of the circuits against overloads and short-circuits;prtection for circuits which supply loads with high inrush current at the circuit closing(LV/LV transformers,breakdown lamps).

SPECIFICATIONS

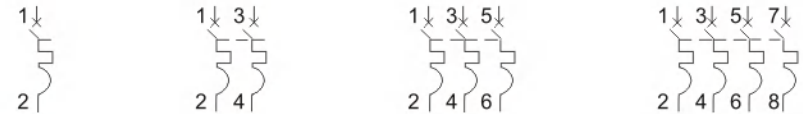
Curves
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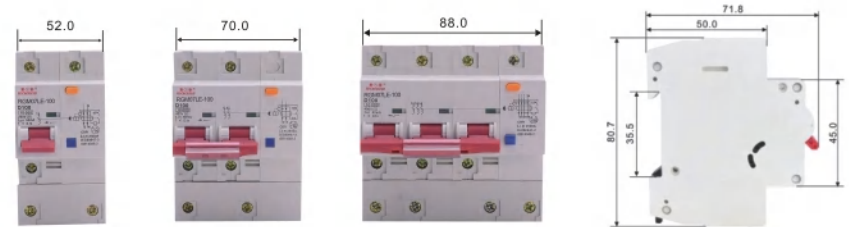
SPECIFICATIONS

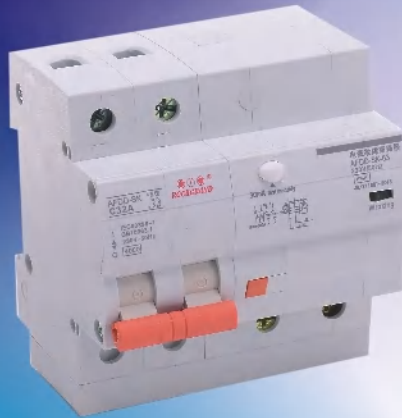
Standard		IEC/EN60898-1	
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage Ue	V	AC 240/415
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000, 10000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
Features	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤ 35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)
Installation	Storage temperature	°C	-25~+70
	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	16
		AWG	18-5
	Tightening torque	N*m	2
In-lbs.		18	
Mounting		On DIN rail EN 60715(35mm)by means of fast clip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





1. Be equipped with power leakage protecting function which greatly enhances the reliability of the safe use of electricity.
2. The technology of electromagnetic mechanism has been improved and handled in terms of material, technique and electronic circuit to avoid the electromagnet getting heat or excess temperatures after long time work and to considerably lower the working temperature of the electromagnet, thus its service life is increased.
3. Be applicable to all kinds of loads and has high stability.
4. The maximum working current of the circuit can reach 63A.
5. High-performance MCU is used in system design to realize digital control.
6. Electromagnetic tripping mechanism is specially used, which enormously enhances the accuracy of over-current protection.
7. When arc fault happens, the inner MCU will carry out multiple judgments. Only when all the features are tallied will the tripping motion be performed.
8. This product has a wide range of application, including households, enterprises, hospitals, schools and science and research units.
9. Integration: the short circuit protection, earth leakage protection and arc protection are integrated in one.
10. Stability: its detection capability will not be affected by the shield of inhibitive load or EMI load.
11. Multiple domain detection: time domain and frequency domain.
12. Flexible installation: plug-in type and screw type.

General Description

AFDD, short for the arc fault detection device, is a new kind of electric line protection device. Its main functions are detecting and distinguishing dangerous grounding arc fault, arc fault in parallel and in series, and driving timely to motivate the current breaker to avoid electrical fire. It adopts the embedded system digital circuit control and the original arc feature recognition algorithm. It is small in size but strong in functions, and being integrated with leak current protection function, it can realize the automatic monitoring and protection of arc fault and leak current, thus it can effectively guarantee the safety of the low voltage distributed power line, electric equipment and personnel.

Characteristic Parameters

1. The break-time limit value of the AFDD with nominal voltage of 220V:

Arc current	2.5A	5A	10A	16A	32A	63A
Maximum break time	1s	0.5s	0.25s	0.15s	0.14s	0.13s

Rated impulse withstand voltage: 4kV Operating Frequency: 50Hz
Residual current breaking time of the leakage circuit breaker:

Category	I (mA)	In (A)	Maximum (residual current) breaking time (s)			
			I	2I	5I	250mA
Indirect contact	>30	Any value	0.2	0.1	0.04	
Direct Contact	≤30	Any value	0.1	0.1		0.04

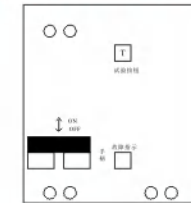
A. Operating Instructions

- Button instructions
- Test button: for use of testing AFDD leakage function.
- Fault indicator button: this button bumps indicating AFDD disconnected because of faults, otherwise it is regarded as normal.
- Handle shank: for use of connecting and disconnecting to circuit. Put the handle shank to ON to connect and OFF to disconnect.
- Operating Instructions
- Put the AFDD handle shank to OFF to place in circuit correctly.
- First make sure the failure indicator button does not heave, and if heave, press it down.
- Put the AFDD handle shank to ON to place in circuit.
- Leakage test: press the test button, and if the AFDD trips, it is normal, if not, please replace it.
- Put the AFDD handle shank to ON to place in circuit.

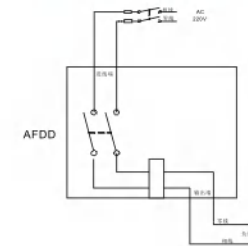
B. Normal Working Conditions and Installing Conditions

Ambient air temperature	The upper limit is 40 °C, the reference temperature is 20 °C, the lower limit is -5 °C; allows extreme range of -20 °C and +60 °C during storage and transport.			
Altitude	The altitude of installation site does not exceed 2000 m.			
Humidity	The relative humidity of the installation location does not exceed 50% at the highest temperature of +40 °C; allows a higher relative humidity at a lower temperature, in the wettest month the monthly average minimum temperature cannot exceed +25 °C, the monthly average maximum relative humidity does not exceed 90%, and measures concerning the condensation on the product due to temperature changes must be taken.			
External magnetic field	Magnetic field in any place cannot exceed 5 times of the geomagnetic field, if installed in the vicinity of strong magnetic fields, technical requirements should be added.			
Location	According to the provisions of the manufacturing factory, there is a tolerance of 2° in every place.			
Frequency	Reference value ±5%			
Sine wave distortion	Not exceed ±5%			
Class of pollution	Expected to apply to standard of pollution class 2, namely generally only has non-conductive pollution.			
Binding Post	Cross-section of connection-allowed wires mm ²	Flexible line with prefabricated ends	Max	1 × 4
			Min	1 × 1
		lineRigid	Max	1 × 4
			Min	1 × 1
Tightening torque N.m			1.2	

Panel schematic



Basic Wiring Diagram Phase Line

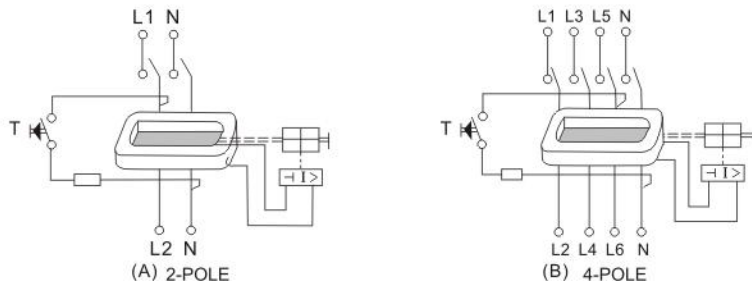




GENERAL

The item is in comply with standard of IEC61008-1, applying to the circuit of AC 50/60Hz,230V single phase,400V three phases or below it for industrial and mining enterprise,trade building,commerce and family.It is mainly used for preventing electric fire and personal casual accident caused by personal electric shock or leakage of electrified wire net,this is a current operated,fast leakage protector of pure electromagnetic type,which can break off fault circuit rapidly in order to avoid occurrence of accident.The item is precise in structure,less elements,without auxiliary power and high working reliability.The function of the switch won't be influenced by ambient temperature and lightning.The mutual inductor of the item is used to test vector differential value of passing current,and produces a relevant output power and add it to the tripper in secondary winding,if the current of vector differential value of protected circuit of personal electric shock is up to or over leakage operating current, the tripper will act and cut off so that the item will take effect of protection.

WORKING PRINCIPLE



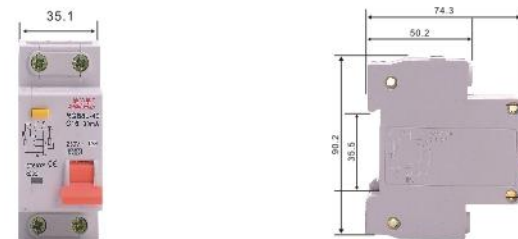
SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type,electronic type	
	Type(wave form of the earth leakage sensed)	A,AC	
	Rated current I _n	A 16,25,32,40,63,80,100	
	Poles	2,4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01,0.03,0.1,0.3,0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 1000	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 35 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 35
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

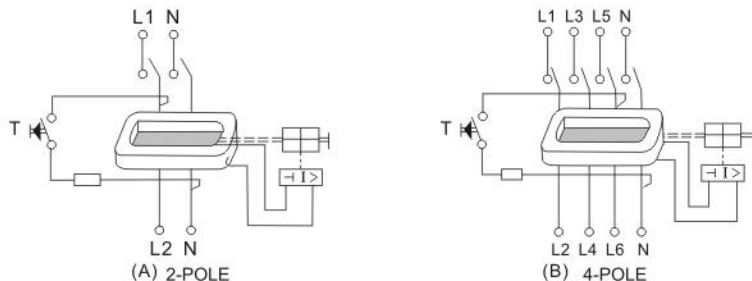




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The item is in comply with standard of IEC61008-1, applying to the circuit of AC 50/60Hz, 230V single phase, 400V three phases or below it for industrial and mining enterprise, trade building, commerce and family. It is mainly used for preventing electric fire and personal casual accident caused by personal electric shock or leakage of electrified wire net, this is a current operated, fast leakage protector of pure electromagnetic type, which can break off fault circuit rapidly in order to avoid occurrence of accident. The item is precise in structure, less elements, without auxiliary power and high working reliability. The function of the switch won't be influenced by ambient temperature and lightning. The mutual inductor of the item is used to test vector differential value of passing current, and produces a relevant output power and add it to the tripper in secondary winding, if the current of vector differential value of protected circuit of personal electric shock is up to or over leakage operating current, the tripper will act and cut off so that the item will take effect of protection.

WORKING PRINCIPLE



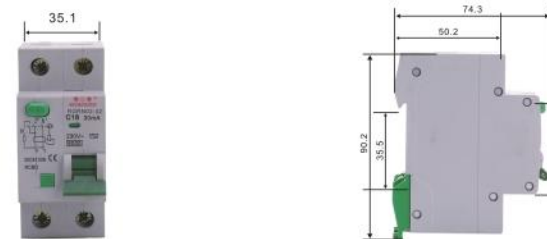
SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type, electronic type	
	Type(wave form of the earth leakage sensed)	A, AC	
	Rated current In	A 16, 25, 32, 40, 63	
	Poles	2, 4	
	Rated voltage Ue	V AC 240/415	
	Rated sensitivity ΔIn	A 0.01, 0.03, 0.1, 0.3, 0.5	
	Insulation voltage Ui	V 500	
	Rated residual making and Breaking capacity IΔm	A 1000	
	Short-circuit current IΔc	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤ 35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm² 35 AWG 18-3
		Terminal size top/bottom for busbar	mm² 35
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm) by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

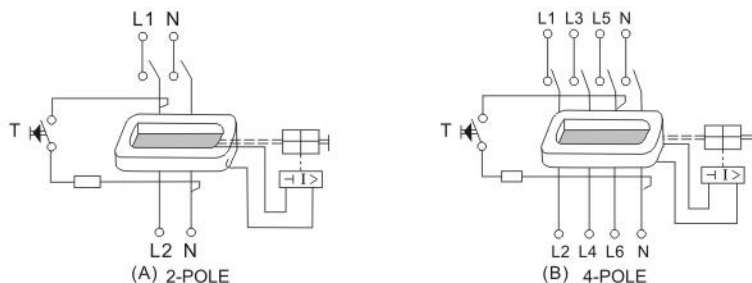




GENERAL

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WORKING PRINCIPLE



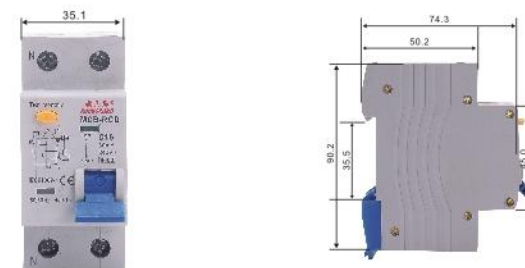
SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type,electronic type	
	Type(wave form of the earth leakage sensed)	A,AC	
	Rated current I _n	A 16,25,32,40,63,80,100	
	Poles	2,4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01,0.03,0.1,0.3,0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 1000	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 35 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 35
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

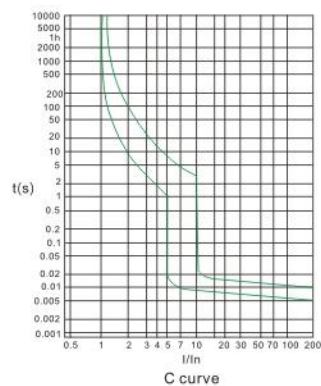
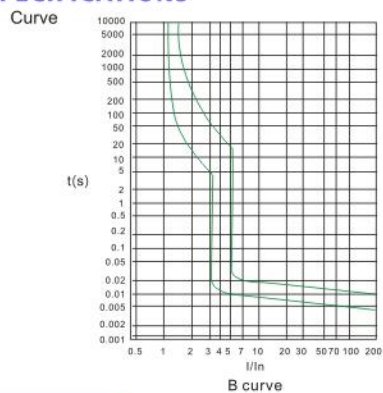
1.Application

Personnal and fire protection
Cable and line protection against overload and short-circuits

2.General rules for choosing ELCB:

B curve(3-5 In)protection and control of the circuits against overloads and short-circuits;
C curve(5-10 In)protection and control of the circuits against overloads and short-circuits;
protection for resistive and inductive loads with low inrush current

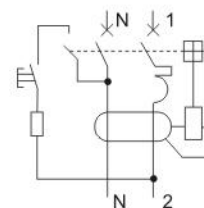
SPECIFICATIONS



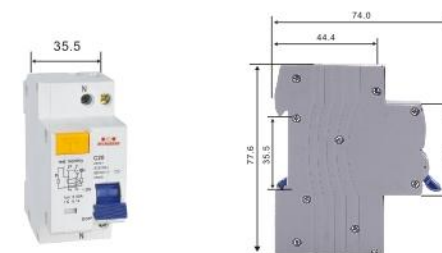
SPECIFICATIONS

Standard		IEC/EN61009-1	
Electrical features	Mode	Electronic type	
	Type(wave form of the earth leakage sensed)	AC	
	Thermo-magnetic release characteristic	B,C	
	Rated current I _n	A	
	Poles	P	
	Rated voltage U _e	V	
	Rated sensitivity I _{Δn}	A	
	Rated residual making and Breaking capacity I _{Δm}	A	
	Rated short-circuit capacity I _{cn}	A	
	Break time under I _{Δn}	s	
	Rated frequency	Hz	
	Rated impulsewithstand voltage(1.2/50)U _{imp}	V	
	Dielectric test voltage at ind.Freq for 1min	kV	
	Insulation voltage U _i	V	
Mechanical Features	Pollution degree	2	
	Electrical life	4000	
	Mechanical life	10000	
	Fault current Indicator	Yes	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤35 °C)	°C	
	Storage temperature	°C	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	m ²
			AWG
Terminal size top/bottom for busbar		m ²	
		AWG	
Mounting	On DIN rail EN 6071 5(35mm)by means of fast clip device		
Connection	From top and bottom		

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

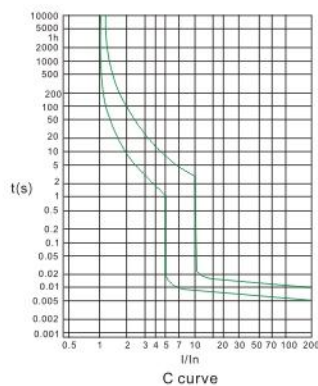
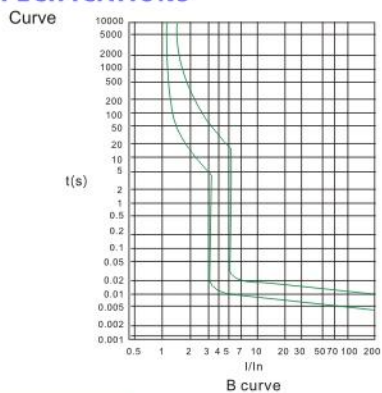
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protection for resistive and inductive loads with low inrush current

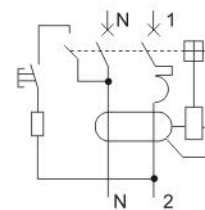
SPECIFICATIONS



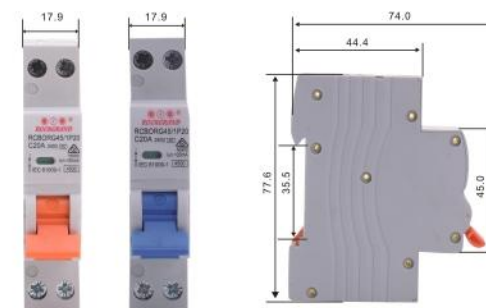
SPECIFICATIONS

Standard		IEC/EN61009-1
Mode		Electronic type
Type(wave form of the earth leakage sensed)		AC
Thermo-magnetic release characteristic		B,C
Rated current In	A	2,4,6,10,16,20,25,32,40
Poles	P	1P+N
Rated voltage Ue	V	AC 230
Rated sensitivity IΔn	A	0.01,0.03,0.1
Rated residual making and Breaking capacity IΔm	A	500
Rated short-circuit capacity Icn	A	4500
Break time under IΔn	s	≤ 0.1
Rated frequency	Hz	50/60
Rated impulsewithstand voltage(1.2/50)Uimp	V	4000
Dielectric test voltage at ind.Freq for 1min	kV	2
Insulation voltage Ui	V	250
Pollution degree		2
Electrical life		4000
Mechanical life		10000
Mechanical Features		Yes
Fault current Indicator		IP20
Protection degree		
Ambient temperature (with daily average ≤35℃)	℃	-5~+40(special application please refer to temperature compensation correction)
Storage temperature	℃	-25~+70
Terminal connection type		Cable/ U-type busbar/pin-type busbar
Terminal size top/bottom for cable	m ²	25
	AWG	18-3
Terminal size top/bottom for busbar	m ²	25
	AWG	18-3
Mounting		On DIN rail EN 6071 5(35mm)by means of fast clip device
Connection		From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

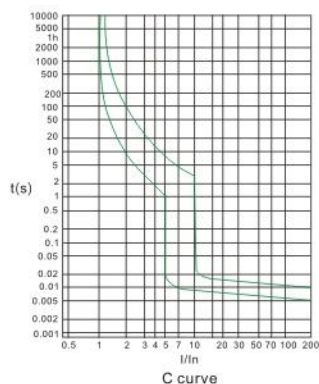
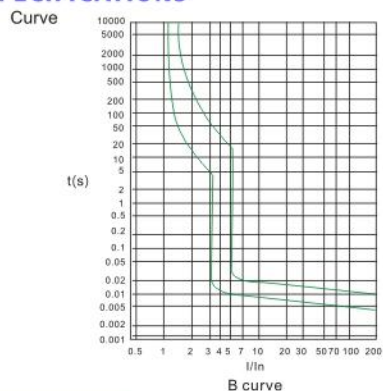
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2.General rules for choosing ELCB:

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protection for resistive and inductive loads with low inrush current

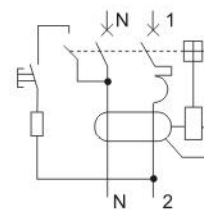
SPECIFICATIONS



SPECIFICATIONS

Standard		IEC/EN61009-1		
Electrical features	Mode	Electronic type		
	Type(wave form of the earth leakage sensed)	AC		
	Thermo-magnetic release characteristic	B,C		
	Rated current I _n	A	2,4,6,10,16,20,25,32,40	
	Poles	P	1P+N	
	Rated voltage U _e	V	AC 230	
	Rated sensitivity I _{Δn}	A	0.01,0.03,0.1	
	Rated residual making and Breaking capacity I _{Δm}	A	500	
	Rated short-circuit capacity I _{cn}	A	4500	
	Break time under I _{Δn}	s	≤0.1	
	Rated frequency	Hz	50/60	
	Rated impulsewithstand voltage(1.2/50)U _{imp}	V	4000	
Mechanical Features	Dielectric test voltage at ind.Freq for 1min	kV	2	
	Insulation voltage U _i	V	250	
	Pollution degree		2	
	Electrical life		4000	
	Mechanical life		10000	
	Fault current Indicator		Yes	
	Protection degree		IP20	
	Ambient temperature (with daily average ≤35 °C)	°C	-5~+40(special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
	Terminal connection type		Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	m ²	25
			AWG	18-3
Terminal size top/bottom for busbar		m ²	25	
		AWG	18-3	
Mounting		On DIN rail EN 6071 5(35mm)by means of fast clip device		
Connection		From top and bottom		

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.General rules for choosing RCBO:

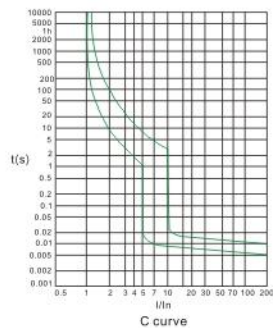
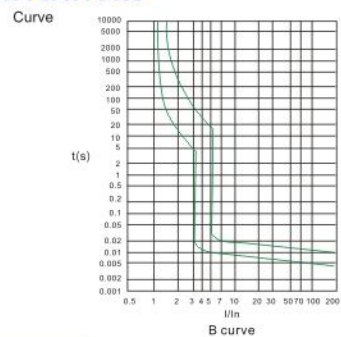
- a. Rated residual operating current $I_{\Delta n}=30\text{ mA}$: additional protection in the case of direct contact

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

c. Tripping curve B curve(3-5 I_n) protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.

C curve(5-10 I_n) protection and control of the circuits against overloads and short circuits; protection for resistive and inductive loads with low inrush current.

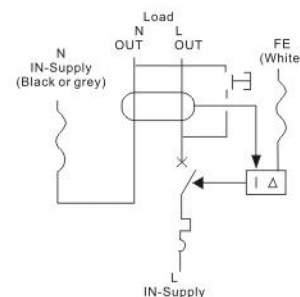
SPECIFICATIONS



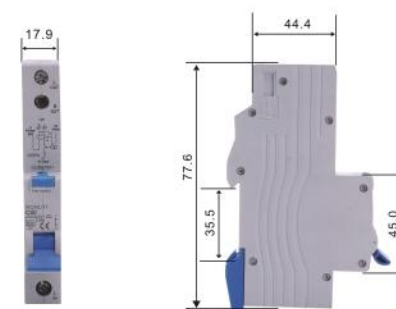
SPECIFICATIONS

	Standard	IEC/EN61009-1	
Electrical features	Mode	Electronic type	
	Type(wave form of the earth leakage sensed)	AC	
	Thermo-magnetic release characteristic	B,C	
	Rated current I_n	A	2,4,6,10,16,20,25,32,40
	Poles	P	1P+N
	Rated voltage U_e	V	AC 240
	Rated sensitivity $I_{\Delta n}$	A	0.01,0.03,0.1
	Rated residual making and Breaking capacity $I_{\Delta m}$	A	500
	Rated short-circuit capacity I_{cn}	A	4500
	Break time under $I_{\Delta n}$	s	≤ 0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
	Mechanical Features	Dielectric test voltage at ind.Freq for 1min	kV
Insulation voltage U_i		V	500
Pollution degree			2
Electrical life			4000
Mechanical life			8000
Contact position Indicator			Yes
Protection degree			IP20
Ambient temperature (with daily average $\leq 35^\circ\text{C}$)		$^\circ\text{C}$	-5~+40(special application please refer to temperature compensation correction)
Storage temperature		$^\circ\text{C}$	-25~+70
Terminal connection type			Cable/ U-type busbar/pin-type busbar
Installation	Terminal size top/bottom for cable	mm^2	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm^2	16
		AWG	18-5
	Tightening torque	N^*m In-lbs.	2 18
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.General rules for choosing RCBO:

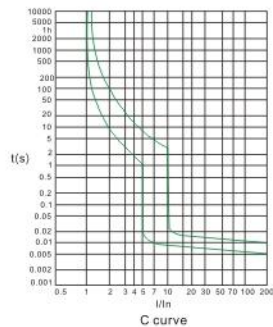
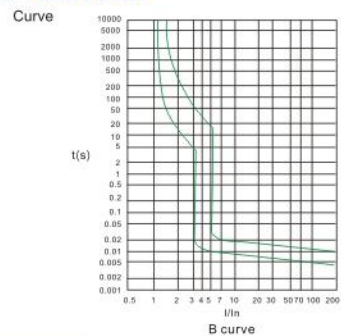
- a. Rated residual operating current $I_{\Delta n}=30\text{ mA}$: additional protection in the case of direct contact

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

- c. Tripping curve
B curve(3-5 I_n) protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.

- C curve(5-10 I_n) protection and control of the circuits against overloads and short circuits; protection for resistive and inductive loads with low inrush current.

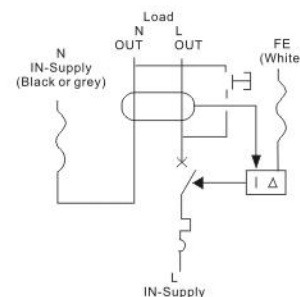
SPECIFICATIONS



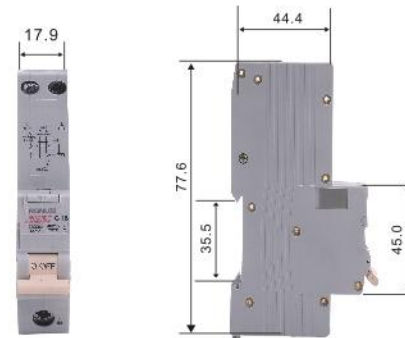
SPECIFICATIONS

	Standard	IEC/EN61009-1	
Electrical features	Mode	Electronic type	
	Type(wave form of the earth leakage sensed)	AC	
	Thermo-magnetic release characteristic	B,C	
	Rated current I_n	A	2,4,6,10,16,20,25,32,40
	Poles	P	1P+N
	Rated voltage U_e	V	AC 240
	Rated sensitivity $I_{\Delta n}$	A	0.01,0.03,0.1
	Rated residual making and Breaking capacity $I_{\Delta m}$	A	500
	Rated short-circuit capacity I_{cn}	A	4500
	Break time under $I_{\Delta n}$	s	≤ 0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
	Mechanical Features	Dielectric test voltage at ind.Freq for 1min	kV
Insulation voltage U_i		V	500
Pollution degree			2
Electrical life			4000
Mechanical life			8000
Contact position Indicator			Yes
Protection degree			IP20
Ambient temperature (with daily average $\leq 35^\circ\text{C}$)		$^\circ\text{C}$	-5~+40(special application please refer to temperature compensation correction)
Storage temperature		$^\circ\text{C}$	-25~+70
Terminal connection type			Cable/ U-type busbar/pin-type busbar
Installation	Terminal size top/bottom for cable	mm^2	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm^2	16
		AWG	18-5
	Tightening torque	N^*m In-lbs.	2 18
Mounting Connection		On DIN rail EN 6071 5(35mm) by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

1.General rules for choosing RCBO:

a.Rated residual operating current

$I_{\Delta n}=30\text{ mA}$: additional protection in the case of direct contact

b.Tripping class

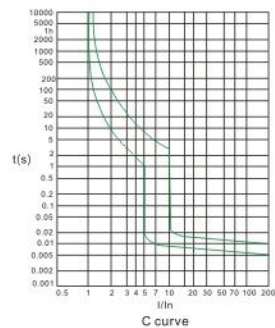
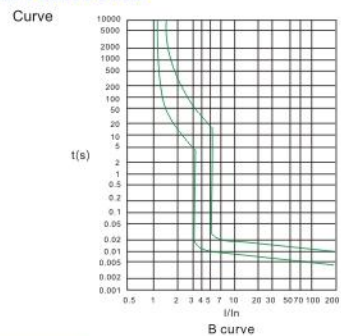
AC class-Tripping is ensured for sinusoidal.alternating currents,whether they be quickly applied or slowly increase.

c.Tripping curve

B curve(3-5 I_n)protection and control of the circuits against overloads and short-circuits;protection for people and big length cables in TN and IT systems.

C curve(5-10 I_n)protection and control of the circuits against overloads and short circuits;protection for resistive and inductive loads with low inrush current.

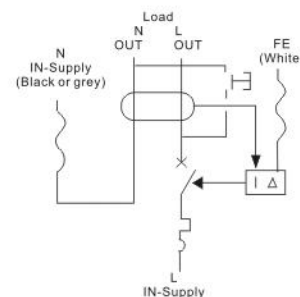
SPECIFICATIONS



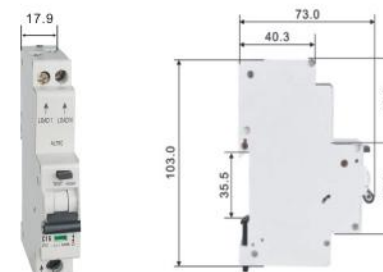
SPECIFICATIONS

	Standard	IEC/EN61009-1		
Electrical features	Mode	Electronic type		
	Type(wave form of the earth leakage sensed)	AC		
	Thermo-magnetic release characteristic	B,C		
	Rated current I_n	A	2,4,6,10,16,20,25,32,40	
	Poles	P	1P+N	
	Rated voltage U_e	V	AC 240	
	Rated sensitivity $I_{\Delta n}$	A	0.01,0.03,0.1	
	Rated residual making and Breaking capacity $I_{\Delta m}$	A	500	
	Rated short-circuit capacity I_{cn}	A	4500	
	Break time under $I_{\Delta n}$	s	≤ 0.1	
	Rated frequency	Hz	50/60	
	Rated impulsewithstand voltage(1.2/50)U _{imp}	V	4000	
Mechanical Features	Dielectric test voltage at ind.Freq for 1min	kV	2	
	Insulation voltage U_i	V	500	
	Pollution degree		2	
	Electrical life		4000	
	Mechanical life		8000	
	Contact position Indicator		Yes	
	Protection degree		IP20	
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$^\circ\text{C}$	-5~+40(special application please refer to temperature compensation correction)	
	Storage temperature	$^\circ\text{C}$	-25~+70	
	Terminal connection type		Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm^2	16
			AWG	18-5
Terminal size top/bottom for busbar		mm^2	16	
		AWG	18-5	
Tightening torque		N^*m	2	
		In-lbs.	18	
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom		

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

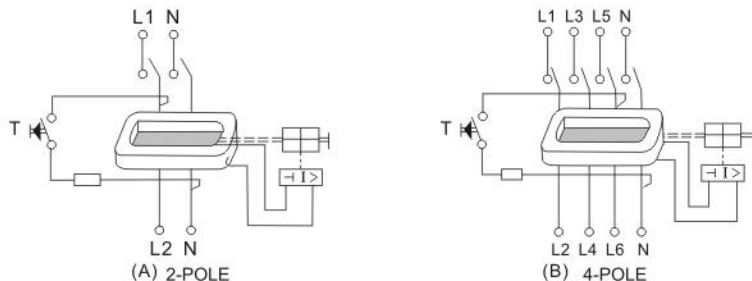




GENERAL

The item is in comply with standard of IEC61008-1, applying to the circuit of AC 50/60Hz,230V single phase,400V three phases or below it for industrial and mining enterprise,trade building,commerce and family.It is mainly used for preventing electric fire and personal casual accident caused by personal electric shock or leakage of electrified wire net,this is a current operated,fast leakage protector of pure electromagnetic type,which can break off fault circuit rapidly in order to avoid occurrence of accident.The item is precise in structure,less elements,without auxiliary power and high working reliability.The function of the switch won't be influenced by ambient temperature and lightning.The mutual inductor of the item is used to test vector differential value of passing current,and produces a relevant output power and add it to the tripper in secondary winding,if the current of vector differential value of protected circuit of personal electric shock is up to or over leakage operating current,the tripper will act and cut off so that the item will take effect of protection.

WORKING PRINCIPLE



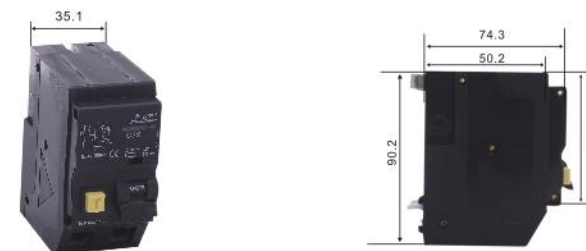
SPECIFICATIONS

	Standard	IEC/EN61008	
Electrical features	Mode	Electro-magnetic type,electronic type	
	Type(wave form of the earth leakage sensed)	A,AC	
	Rated current I _n	A 16,25,32,40	
	Poles	P 2,4	
	Rated voltage U _e	V AC 240/415	
	Rated sensitivity I _{Δn}	A 0.01,0.03,0.1,0.3,0.5	
	Insulation voltage U _i	V 500	
	Rated residual making and Breaking capacity I _{Δm}	A 1000	
	Short-circuit current I _{Δc}	A 6000	
	SCPD fuse	A [6000]	
Mechanical Features	Rated frequency	Hz 50/60	
	Pollution degree	2	
	Electrical life	t 4000	
	Mechanical life	t 10000	
	Protection degree	IP20	
	Ambient temperature (with daily average ≤35°C)	°C -25~+40	
	Storage temperature	°C -25~+70	
	Terminal connection type	Cable/ U-type busbar/pin-type busbar	
	Installation	Terminal size top/bottom for cable	mm ² 35 AWG 18-3
		Terminal size top/bottom for busbar	mm ² 35
AWG 18-3			
Tightening torque		N*m 2.5 In-lbs. 22	
Mounting Connection		On DIN rail EN 6071 5(35mm)by means of fast clip device From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

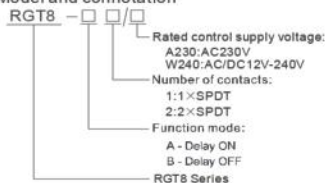




General

- Applications
 - Suitable for applications where function and time requirements are known.
 - Time switch, possible to be used for pump decay time after switching heating off, switching of fans.
- Function Features
 - Single-function relay with possibility of time setting by a potentiometer.
 - Choice of 2 functions:
 - A: Delay ON
 - B: Delay OFF
 - Time scale 0.1 s - 10 days divided into 10 ranges..
 - Relay status is indicated by LED.
 - 1-MODULE, DIN rail mounting.

■ Model and connotation



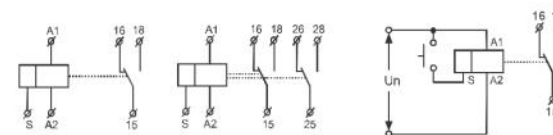
Technical parameters

Technical parameters	RGT8-A1/B1	RGT8-A2/B2
Function	A: delay ON ; B: delay OFF	
Supply terminals	A1-A2	
Voltage range	AC/DC 12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC 230V(50-60Hz)	
Power input	AC max. 6VA/1.3W	AC max. 6VA/1.9W
Supply voltage tolerance	-15%; +10%	
Supply indication	green LED	
Time ranges	0.1s-10days, ON, OFF	
Time setting	potentiometer	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/°C, at=20°C(0.05%/°F, at=68°F)	
Output	1x SPDT	2x SPDT
Current rating	1x 16A(AC1)	2x 16A(AC1)
Switching voltage	250VAC/24VDC	
Min. breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1x 10 ⁷	
Electrical life(AC1)	1x 10 ⁵	
Reset time	max. 200ms	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max. cable size(mm ²)	solid wire max. 1x2.5 or 2x1.5 / with sleeve max. 1x2.5 (AWG 12)	
Dimensions	90x18x64mm	
Weight	1x SPDT: W240-60g, A230-59g	2x SPDT: W240-81g, A230-79g
Standards	EN 61812-1, IEC6947-5-1	

Functions Diagram



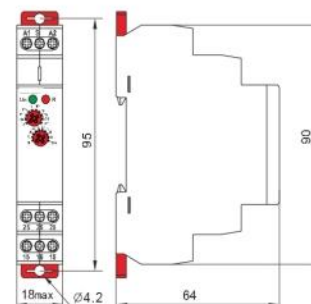
Wiring Diagram



Time Range



Dimensions(mm)





General

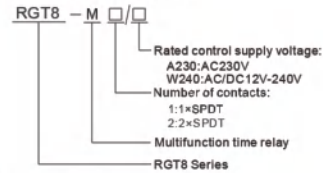
■ Applications

-Multifunction time relay can be used for electrical appliances, control of lights, heating, motors, pumps and fans (10 functions, 10 time ranges, multi-voltage).

■ Function Features

- 10 functions: - 5 time functions controlled by supply voltage
- 4 time functions controlled by control input
- 1 function of latching relay
- Comfortable and well-arranged function and time-range setting by rotary switches.
- Time scale 0.1 s - 10 days divided into 10 ranges.
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.

■ Model and connotation



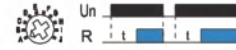
Technical parameters

Technical parameters	RGT8-M1	RGT8-M2
Function	A, B, C, D, E, F, G, H, I, J	
Supply terminals	A1-A2	
Voltage range	AC/DC 12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC 230V(50-60Hz)	
Power input	AC max.6VA/1.3W	AC max.6VA/1.9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Time ranges	0.1s-10days, ON, OFF	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coecient	0.05%/°C, at=20°C(0.05%°F, at=68°F)	
Output	1xSPDT	2xSPDT
Current rating	1x16A(AC1)	2x16A(AC1)
Switching voltage	250VAC/24VDC	
Min. breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1x10 ⁷	
Electrical life(AC1)	1x10 ⁵	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage cathogory	III.	
Pollution degree	2	
Max. cable size(mm ²)	solid wire max.1x2.5 or 2x1.5/with sleeve max.1x2.5(AWG 12)	
Dimensions	90x18x64mm	
Weight	1xSPDT: W240-62g, A230-60g	2xSPDT: W240-82g, A230-81g
Standards	EN 61812-1, IEC60947-5-1	

Functions Diagram

A: On Delay (Power On)

When the input voltage U is applied, timing delay t begins. Relay contacts R change state after time delay is complete. Contacts R return to their shelf state when input voltage U is removed. Trigger switch is not used in this function.



B: Interval (Power On)

When input voltage U is applied, relay contacts R change state immediately and timing cycle begins. When time delay is complete, contacts return to their shelf state. When input voltage U is removed, contacts will also return to their shelf state. Trigger switch is not used in this function.



C: Repeat Cycle (Starting Off)

When input voltage U is applied, time delay t begins. When time delay t is complete, relay contacts R change state for time delay l. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.



D: Repeat Cycle (Starting On)

When input voltage U is applied, relay contacts R change state immediately and time delay t begins. When time delay t is complete, contacts return to their shelf state for time delay l. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.



E: Off Delay (S Break)

Input voltage U must be applied continuously. When trigger switch S is closed, relay contacts R change state. When trigger switch S is opened, delay t begins. When delay t is complete, contacts R return to their shelf state. If trigger switch S is closed before time delay t is complete, then time is reset. When trigger switch S is opened, the delay begins again, and relay contacts R remain in their energized state. If input voltage U is removed, relay contacts R return to their shelf state.



F: Single Shot

Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. During time-out, the trigger signal S is ignored. The relay resets by applying the trigger switch S when the relay is not energized.



G: Single Shot Trailing Edge (Non-Retriggerable)

Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. At the end of the preset time t, the relay contacts R return to their normal condition unless the trigger switch S is opened and closed prior to time out t (before preset time elapses). Continuous cycling of the trigger switch S at a rate faster than the preset time will cause the relay contacts R to remain closed. If input voltage U is removed, relay contacts R return to their shelf state.



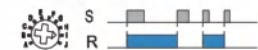
H: On/Off Delay

Input voltage U must be applied continuously. When trigger switch S is closed, time delay t begins. When time delay t is complete, relay contacts R change state and remain transferred until trigger switch S is opened. If input voltage U is removed, relay contacts R return to their shelf state.



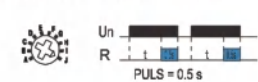
I: Latching relay

Input voltage U must be applied continuously. Output changes state with every trigger switch S closure. If input voltage U is removed, relay contacts R return to their shelf state.



J: Pulse generator

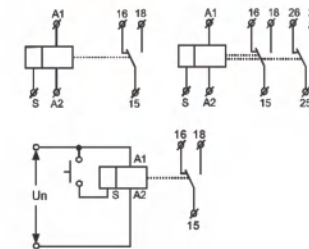
Upon application of input voltage U, a single output pulse of 0.5 seconds is delivered to relay after time delay t. Power must be removed and re-applied to repeat pulse. Trigger switch is not used in this function.



Time Range



Wiring Diagram



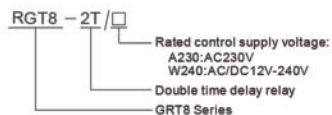
Dimensions(mm)





General

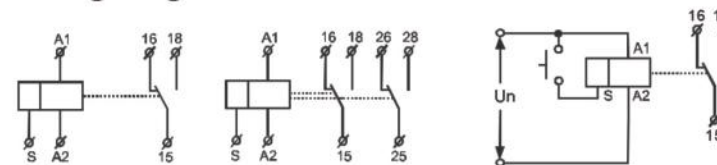
- Applications
 - For gradual switching of heavy powers (e.g. el.heating), prevents current strokes in the main.
- Function Features
 - 2x Delay ON (2 time relays in one)
 - Time scale 0.1s - 10 days divided into 10 time ranges:
0.1s - 1s / 1s - 10s / 0.1min - 1min / 1min - 10min / 0.1h - 1h / 1h - 10hrs / 0.1 day - 1 day / 1 day - 10 days / ON / OFF.
 - Times t1 and t2 are independently adjustable.
 - t1 and t2 are switched on after supply voltage connection
 - Relay status is indicated by LED.
 - 1-MODULE, DIN rail mounting.
- Model and connotation



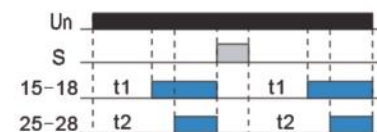
Technical parameters

Technical parameters	RGT8-2T
Function	2x Delay ON
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.09-3VA/DC 0.05-1.7W
Voltage range	AC 230V(50-60Hz)
Power input	AC max.6VA/1.9W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	0.1s-10days, ON, OFF
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coeicient	0.05%/°C, at=20°C(0.05%°F , at=68°F)
Output	2×SPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min. breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10 ⁷
Electrical life(AC1)	1×10 ⁵
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max. cable size(mm ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)
Dimensions	90×18×64mm
Weight	W240-82g, A230-82g
Standards	EN 61812-1, IEC60947-5-1

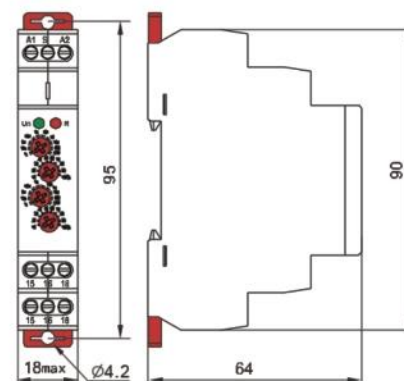
Wiring Diagram



Functions Diagram



Dimensions(mm)



General

■ Applications

-It is used for regular room ventilation, cyclic dehumidification, light control, circulating pumps, noon signs, etc.

■ Function Features

-2 time functions:

- Cycler beginning with pulse
- Cycler beginning with pause

-Function choice is done by an external jumper of terminals S-A1.

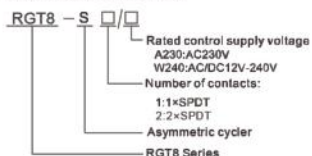
-Time scale 0.1 s - 100 days divided into 10 time ranges:

(0.1 s - 1 s / 1 s - 10 s / 0.1 min - 1 min / 1 min - 10 min / 0.1 hrs - 1 h / 1 hrs - 10 hrs / 0.1 day - 1 day / 1 day - 10 days / 3 days - 30 days / 10 days - 100 days).

-Relay status is indicated by LED.

-1-MODULE, DIN rail mounting.

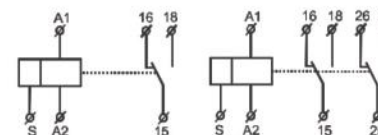
■ Model and connotation



Technical parameters

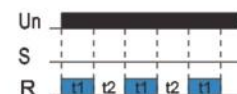
Technical parameters	RGT8-S1	RGT8-S2
Function	Asymmetric cycler time relay	
Supply terminals	A1-A2	
Voltage range	AC/DC 12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC 230V(50-60Hz)	
Power input	AC max.6VA/1.3W	AC max.6VA/1.9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Time ranges	0.1s-10days	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coeicent	0.05%/°C, at=20°C(0.05%°F, at=68°F)	
Output	1×SPDT	2×SPDT
Current rating	1×16A(AC1)	2×16A(AC1)
Switching voltage	250VAC/24VDC	
Min. breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1×10 ⁷	
Electrical life(AC1)	1×10 ⁵	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage cathegory	III.	
Pollution degree	2	
Max.cable size(mm ²)	solid wire max.1×2.5or2×1.5/with sleeve max.1×2.5(AWG 12)	
Dimensions	90×18×64mm	
Weight	1×SPDT:W240-62g,A230-61g 2×SPDT:W240-82g,A230-82g	
Standards	EN 61812-1,IEC60947-5-1	

Wiring Diagram

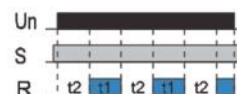


Functions Diagram

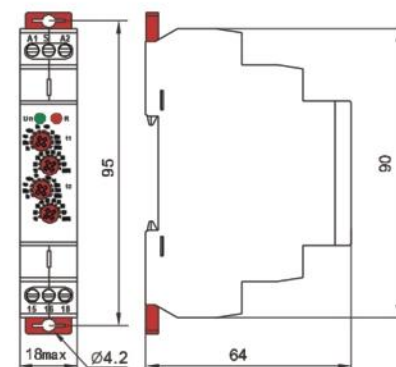
Cycler beginning with pulse



Cycler beginning with pause(jumper A1-S)



Dimensions(mm)

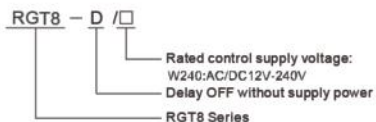




General

- Applications
 - Back-up source for Delay OFF in case of voltage failure (emergency lighting, emergency respirator, or protection of el. controlled doors - in case of fire).
- Function Features
 - Time range (adjustable by rotary switch and fine setting by potentiometer): 0.1 s - 10 min.
 - Voltage range: AC/DC 12-240V, clamp terminals.
 - Relay status is indicated by LED.
 - 1-MODULE, DIN rail mounting.

■ Model and connotation

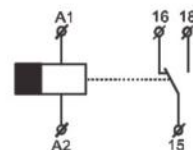


Technical parameters

Technical parameters	RGT8-D
Function	Delay OFF without supply power
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.09-3VA/DC 0.05-1.5W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	0.1s-10min
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Minimum power time	3s
Temperature coecient	0.05%/°C, at=20°C(0.05%°F, at=68°F)
Output	1×SPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min. breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10 ⁶
Electrical life(AC1)	5×10 ⁴
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overtoltage cathegory	III.
Pollution degree	2
Max. cable size(mm ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)
Dimensions	90×18×64mm
Weight	66g
Standards	EN 61812-1, IEC60947-5-1



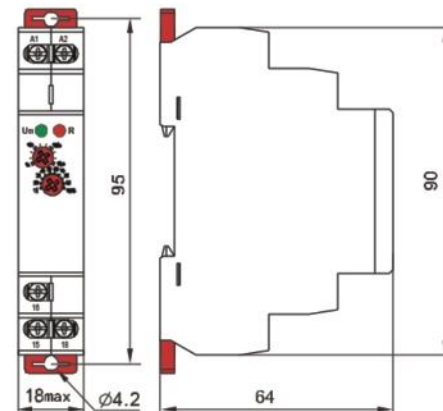
Wiring Diagram



Functions Diagram



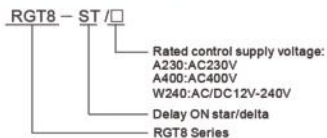
Dimensions(mm)



General

- Applications
 - Designated for delay ON of motors star/delta.
- Function Features
 - Time t1 (star):
 - time scale 0.1 s - 10min divided into 4 time ranges
 - rough time setting by rotary switch.
 - Time t2 (delay):
 - time scale 0.1 s - 1 s
 - time setting by potentiometer
 - Relay status is indicated by LED.
 - 1-MODULE, DIN rail mounting.

■ Model and connotation

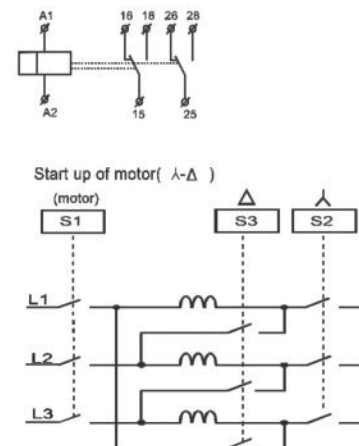


Technical parameters

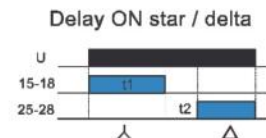
Technical parameters	RGT8-ST
Function	Delay ON star/delta
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.3-2VA/DC 0.1-1.2W
Voltage range	AC 230V/AC400V(50-60Hz)
Power input	AC max. 6VA/1.3W
Supply voltage tolerance	-15%; +10%
Supply indication	green LED
Time ranges	Range of time delay t1: 0.1 s - 10 min, Switch time t2: 0.1 s - 1 s
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coeicent	0.05%/°C, at=20°C(0.05°F, at=68°F)
Output	2× SPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min. breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10 ⁷
Electrical life(AC1)	1×10 ⁵
Reset time	max. 200ms
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max. cable size(mm ²)	solid wire max. 1×2.5 or 2×1.5/ with sleeve max. 1×2.5 (AWG 12)
Dimensions	90×18×64mm
Weight	W240-82g, A230-80g
Standards	EN 61812-1, IEC60947-5-1



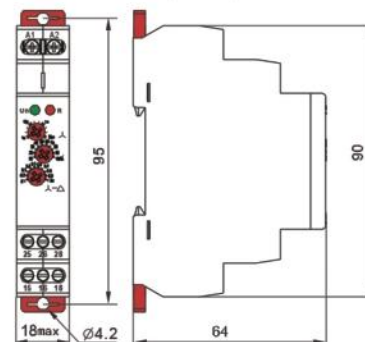
Wiring Diagram



Functions Diagram

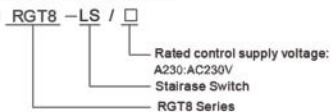


Dimensions(mm)



General

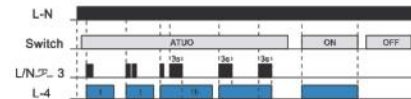
- Applications
 - It is used for delayed switching of lights in the corridors, entrances, stairways, halls or for delayed finish of fans (WC, bathroom, etc.).
- Function Features
 - Operating system switch:
 - ON - output is constantly ON.
 - AUTO - timing according to adjusting by potentiometer in range 0.5 - 20 min
 - OFF - output is constantly OFF.
 - Voltage range: AC 230 V, clamp terminals.
 - Relay status is indicated by LED.
 - 1-MODULE, DIN rail mounting.
- Model and connotation



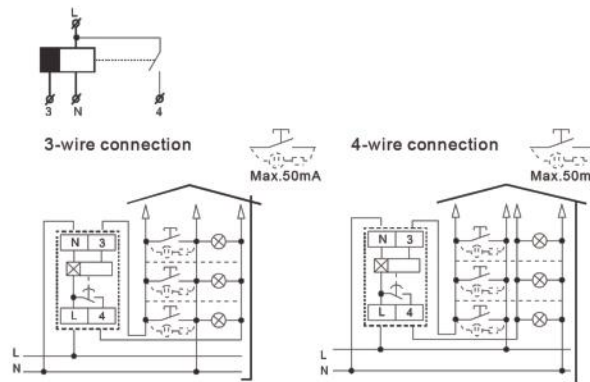
Technical parameters

Technical parameters	RGT8-LS
Function	delay off reacting to contact switching
Supply terminals	L-N
Voltage range	AC 230V(50-60Hz)
Power input	AC max. 6VA/1.3W
Supply voltage tolerance	-15%; +10%
Supply indication	green LED
Time ranges	AUTO: 0.5-20min ON OFF
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Minimum power time	200ms
Glow tubes connctions	Yes(N-3 or L-3)
Max. amount of glow lamps	230V, max. 75pcs (Measured with glow lamp 0.68mA/230V AC)
Temperature coecient	0.05%/°C, at=20°C(0.05%°F, at=68°F)
Output	1×SPST
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min. breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10 ⁷
Electrical life(AC1)	1×10 ⁵
Reset time	max. 200ms
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max. cable size(mm ²)	solid wire max. 1×2.5 or 2×1.5/with sleeve max. 1×2.5 (AWG 12)
Dimensions	90×18×64mm
Weight	61g
Standards	EN61812-1, IEC 60669-2-3, IEC60947-5-1

Functions Diagram



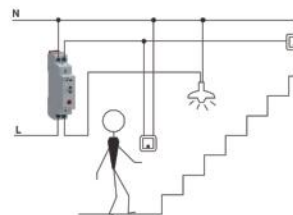
Wiring Diagram



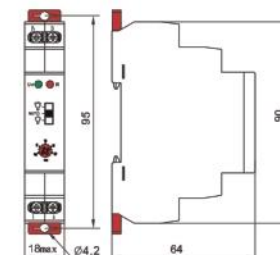
Types of lamps

2000W	2000W	1000W	900W(125uF)	400W	300W

Example



Dimensions(mm)



General

■ Applications

- Protect electrical equipment and motors from over-voltage and under-voltage.
- Normal/emergency power supply switching.

■ Function Features

- Controls its own supply voltage (True RMS measurement)
- User may select operation mode through knob.
- Voltage measurement accuracy < 1%.
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.

■ Model and connotation

RGV8 - □ / □

Rated control supply voltage:

Rated supply voltage code	Rated supply voltage	Supply voltage limits	Range of adjustment
D12	DC 12V	DC 7...20V	DC 8...15V
AD48	AC/DC 24...48V	AC/DC 15...100V	AC/DC 20...80V
AD240	AC/DC 110...240V	AC/DC 50...270V	AC/DC 65...280V
A220	AC 220V	AC 160...270V	AC 180...260V

Function mode:

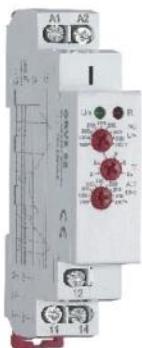
01 - Over/under voltage in windows mode

02 - Overvoltage Undervoltage

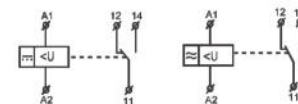
RGV8 Series

Technical parameters

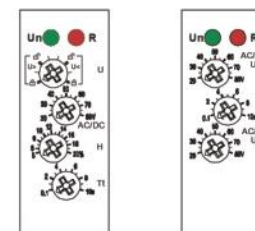
Technical parameters	RGV8-01	RGV8-02
Function	Monitoring voltage	
Supply terminals	A1-A2	
Rated supply voltage	DC12V, AC/DC24V-48V, AC/DC110V-240V	
Rated supply frequency	45Hz-65Hz, 0	
Hysteresis	5%-20%	3% fixed
Supply indication	green LED	
Time delay	Adjustable 0.1s-10s, 10%	
Measurement error	≤ 1%	
Run up delay at power up	0.5s time delay	
Knob setting accuracy	10% of scale value	
Reset time	1000ms	
Temperature coefficient	0.05%/°C, at=20°C (0.05%/°F, at=68°F)	
Output	1 × SPDT	
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min. breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1 × 10 ⁷	
Electrical life (AC1)	1 × 10 ⁵	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max. cable size (mm ²)	solid wire max. 1×2.5 or 2×1.5 with sleeve max. 1×2.5 (AWG 12)	
Dimensions	90 × 18 × 64mm	
Weight	59g	
Standards	EN 60255-1, IEC 60947-5-1	



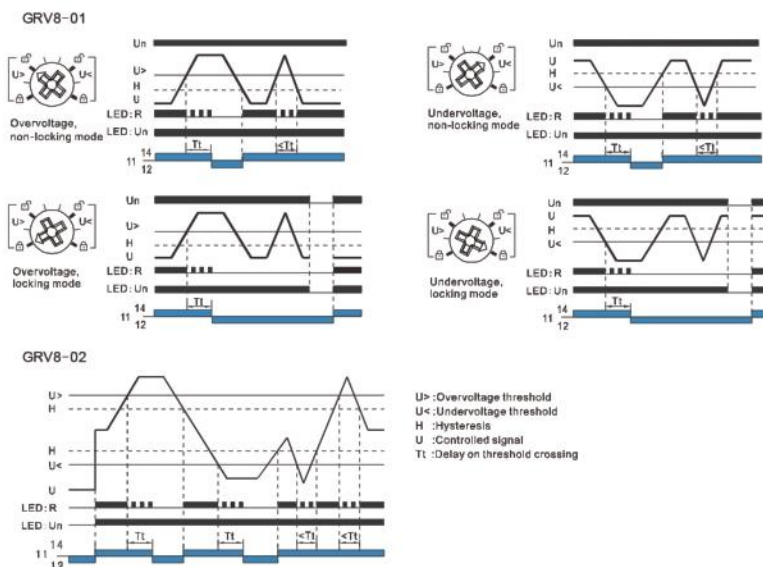
Wiring Diagram



Panel Diagram

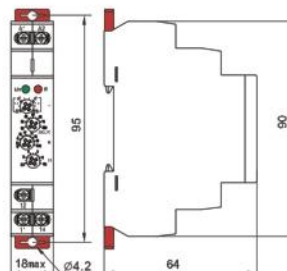


Functions Diagram



U> : Overvoltage threshold
 U< : Undervoltage threshold
 H : Hysteresis
 U : Controlled signal
 Tt : Delay on threshold crossing

Dimensions (mm)



General

■ Applications

- Control for connection of moving equipment(site equipment, agricultural equipent, refrigerated trucks).
- Control for protection of persons and equipment against the consequences of reverse running.
- Normal/emergency power supply switching.
- Protection against the risk of a driving load(phase failure).

■ Function Features

- Controls its own supply voltage(True RMS measurement).
- Set 8-level rated operating voltage through knob.
- Measuring frequency range:45Hz-65Hz.
- Voltage measurement accuracy<1%.
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.

■ Model and connotation



Table1

Function code	Over-voltage	Under-voltage	Asymmetry	Delay time	Phase sequence	Phase failure
03					●	●
04	2%...20%	-20%...2%		0.1s...10s	●	●
05	2%...20%	-20%...2%	8%	0.1s...10s	●	●
06	2%...20%	-20%...2%	5%...15%	2s	●	●
07			8%	2s	●	●
08	15%	-15%	8%	2s	●	●

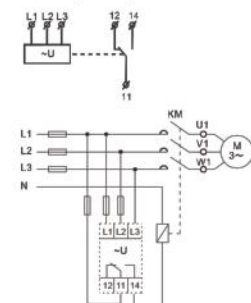
Note:●the function is available

Technical parameters

Technical parameters	M460	M265
Function	Monitoring 3-phase voltage	
Monitoring terminals	L1-L2-L3	L1-L2-L3-N
Supply terminals	L1-L2	L1-N
Voltage range	220-230-240-380-400-415-440-460(P-P)	127-132-138-220-230-240-254-265(P-N)
Rated supply frequency	45Hz-65Hz	
Measuring range	176V-552V	101V-318V
Threshold adjustment voltage	2%-20% of Un selected	
Adjustment of asymmetry threshold	5%-15%	
Hysteresis	2%	
Supply indication	green LED	
Time delay	Adjustable 0.1s-10s, 10%	
Measurement error	≤1%	
Run up delay at power up	0.5s time delay	
Konb setting accuracy	10% of scale value	
Reset time	1000ms	
Temperature coecient	0.05%/°C, at=20°C(0.05%°F, at=68°F)	
Output	1×SPDT	
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1×10 ⁷	
Electrical life(AC1)	1×10 ⁵	



Wiring Diagram

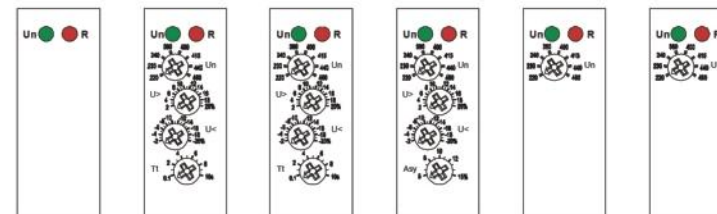


Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max. cable size(mm ²)	solid wire max.1x2.5or 2x1.5/with sleeve max.1x2.5(AWG 12)
Dimensions	90×18×64mm
Weight	64g
Standards	EN 60255-1, IEC60947-5-1

Note:

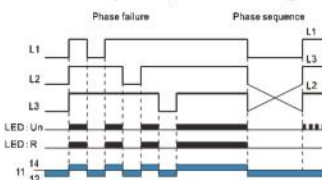
$$A_{asy} = \frac{U_{max} - U_{min}}{U_{avr}} \times 100\% \quad U_{max} = \text{Max}(U_1, U_2, U_3) \\ U_{min} = \text{Min}(U_1, U_2, U_3) \\ U_{avr} = \frac{U_1 + U_2 + U_3}{3}$$

Panel Diagram

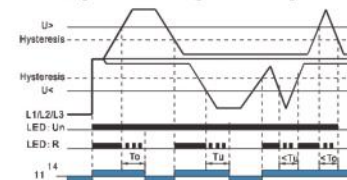


Functions Diagram

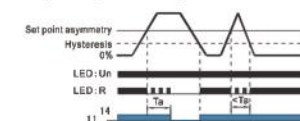
●Phase failure and phase equence function diagram



●Overvoltage and undervoltage function diagram

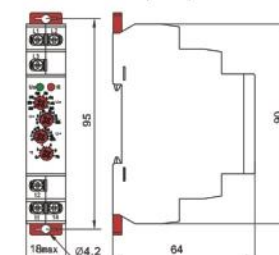


●Asymmetry function diagram



To: Overvoltage threshold tripping delay.
Tu: Undervoltage threshold tripping delay.
Ta: Asymmetry threshold tripping delay.

Dimensions(mm)





General

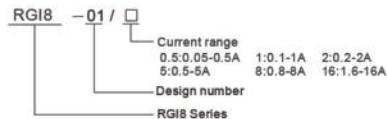
■ Applications

-Serves for monitoring of heating in rail-switches, heating cables, consumption of one-phase motors, indicates current flow.

■ Function Features

- Adjustable delay 0.5 - 10 s to eliminate short current peaks.
- Flexible adjustment by potentiometer, choice of 6 ranges :
AC 0.05-0.5A; AC 0.1-1A; AC 0.2-2A; AC 0.5-5A; AC 0.8-8A; AC 1.6-16A
- Possible to use for current scanning from current transformer.
- Universal supply AC 24 - 240 V or DC 24 V.
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.

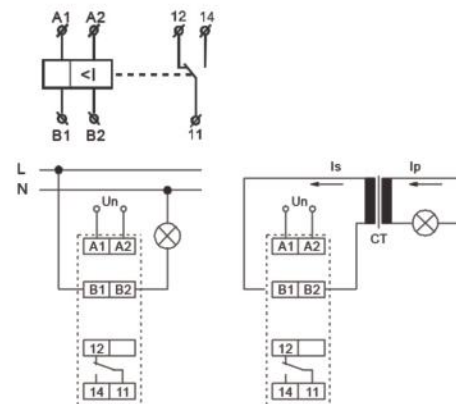
■ Model and connotation



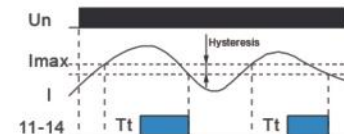
Technical parameters

Technical parameters	RG18-01
Function	Monitoring current
Supply terminals	A1-A2
Rated supply voltage	AC 24V-240V or DC 24V
Rated supply frequency	50/60Hz, 0
Burden	max 25VA
Supply voltage tolerance	-15%; +10%
Current range	0.5A, 1A, 2A, 5A, 8A, 16A
Current adjustment	potentiometer
Time delay	adjustable 0.1-10 s
Supply indication	green LED
Setting accuracy	10 %
Repeat accuracy	<1 %
Temperature dependency	< 0.1 % / °C
Limit values tolerance	5 % (10% for 0.05-0.5A range)
Hysteresis	5 %
Temperature coecient	0.05%/°C, at=20°C(0.05%°F , at=68°F)
Output	1×SPDT
Current rating	10A/AC1
Switching voltage	250VAC/24VDC
Min. breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10 ⁷
Electrical life(AC1)	1×10 ⁵
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max. cable size(mm ²)	solid wire max.1×2.5 or 2×1.5/with sleeve max.1×2.5(AWG 12)
Dimensions	90×18×64mm
Weight	62g
Standards	EN 60255-1

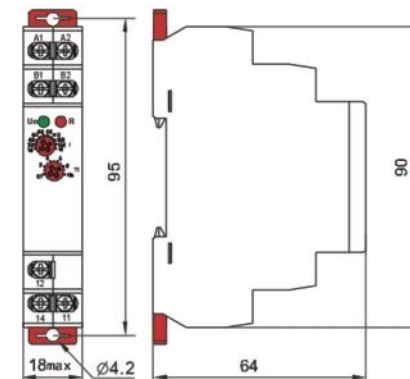
Wiring Diagram



Functions Diagram



Dimensions(mm)

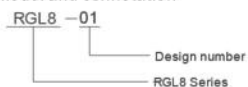


General

- Applications
 - Designed for monitoring level in wells, basins, reservoirs, tanks.....
- Function Features
 - In one device you can choose the following configurations:
 - 2 level control mode
 - 1 level control mode
 - Choice of function PUMP UP, PUMP DOWN.
 - Adjustable time delay on the output (0.1 - 10s).
 - Sensitivity adjustable by a potentiometer (5-100kΩ).
 - Galvanically separated supply voltage AC/DC 24-240V.
 - Relay status is indicated by LED.
 - 1-MODULE, DIN rail mounting.



■ Model and connotation

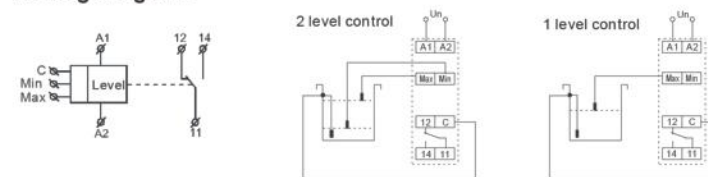


Technical parameters

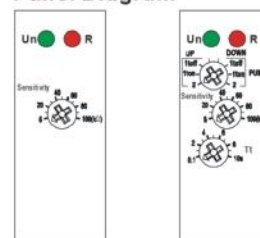
Technical parameters	RGL8-01	RGL8-02
Function	2 level control mode	2 or 1 level control mode
Supply terminals	A1-A2	
Voltage range	AC/DC 24-240V(50-60Hz)	
Input	max.2VA	
Supply voltage tolerance	-15%;+10%	
Sensitivity (input resistance)	adjustable in range 5 kΩ -100 kΩ	
Voltage in electrodes	max. AC 5 V	
Current in probe	AC <0.1 mA	
Time response	max. 400 ms	
Max. capacity length	800 m (sensitivity 25kΩ), 200 m (sensitivity 100 kΩ)	
Max. capacity of probe cable	400 nF (sensitivity 25kΩ), 100 nF (sensitivity 100 kΩ)	
Time delay (t)	adjustable, 0.1-10 s	
Accuracy in setting (mechanical)	± 10 %	
Temperature coeicient	0.05%/°C, at=20°C(0.05%°F , at=68°F)	
Output	1×SPDT	
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min. breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1×10 ⁷	
Electrical life(AC1)	1×10 ⁵	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage cathegory	III.	
Pollution degree	2	
Max. cable size(mm ²)	solid wire max.1×2. 5or2×1. 5/with sleeve max.1×2. 5(AWG 12)	
Dimensions	90×18×64mm	
Weight	61g	81g
Standards	EN 60255-1	



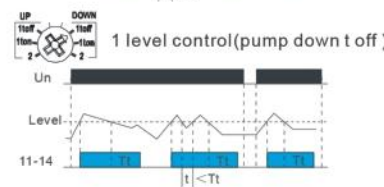
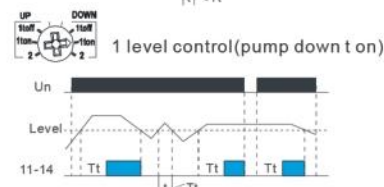
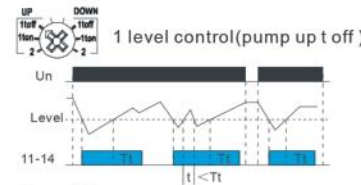
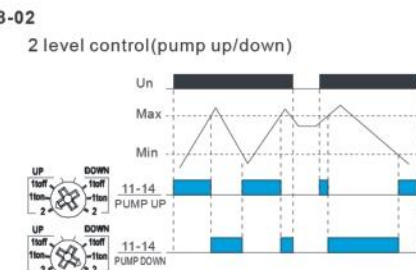
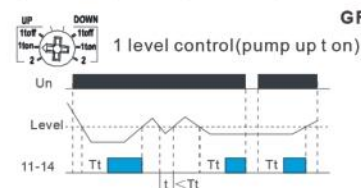
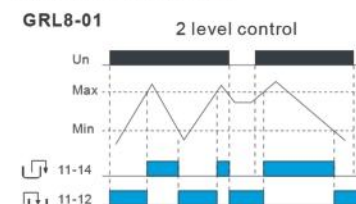
Wiring Diagram



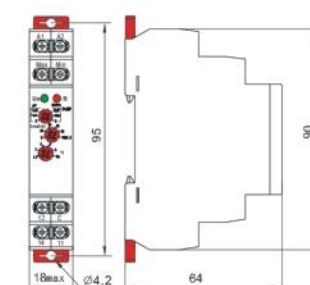
Panel Diagram



Functions Diagram



Dimensions(mm)



General

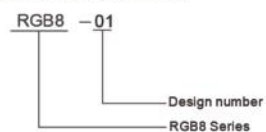
■ Applications

- Used for switching street illumination and garden lights, illumination of advertisements, shop windows, etc.

■ Function Features

- Serves to control lights on the basis of ambient light intensity.
- Level of ambient intensity is monitored by an external sensor and output is switched according to set level on the device.
- Control input for additional control.
- Universal supply AC 110V- 240 V.
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.

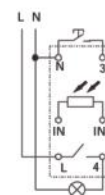
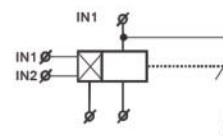
■ Model and connotation



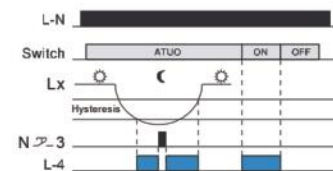
Technical parameters

Technical parameters	RGB8-01
Function	Twilight switch
Supply terminals	L-N
Rated supply voltage	AC 110V-240V
Rated supply frequency	50/60Hz
Burden	max 2VA
Supply voltage tolerance	-15%;+10%
Illumination rang	1-100Lx
Function	ON-AUTO-OFF
Supply indication	green LED
Tolerance sensor	±35%
Delay time	30s
Output	1×SPST
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min. breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10 ⁷
Electrical life(AC1)	1×10 ⁵
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max.cable size(mm ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5 (AWG 12)
Dimensions	90×18×64mm
Weight	62g
Standards	EN 60255-1

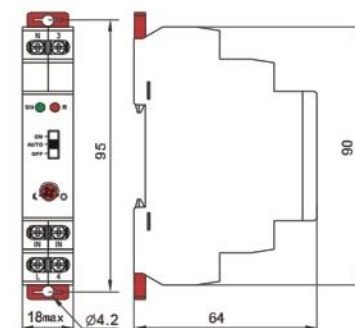
Wiring Diagram



Functions Diagram



Dimensions(mm)



General

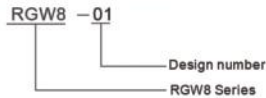
■ Applications

-Can be used for monitoring temperature e.g. in switchboards, heating systems, cooling systems, liquids, radiators, motors, devices, open spaces, etc..

■ Function Features

- Function of short-circuit or sensor disconnection monitoring.
- Possibility to set function "heating"/"cooling".
- It is possible to place sensor directly on terminal block – for temperature monitoring in a switchboard or in its surroundings
- Universal supply AC/DC 24V- 240 V.
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.

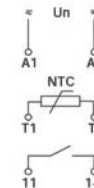
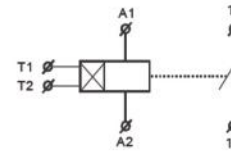
■ Model and connotation



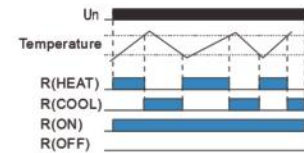
Technical parameters

Technical parameters	RGW8-01
Function	Temperature control relay
Supply terminals	A1-A2
Rated supply voltage	AC/DC 24V-240V
Rated supply frequency	50/60Hz
Burden	max 2VA
Supply voltage tolerance	-15%;+10%
Temperature range	-15°C to +45°C
Hysteresis	0.5°C to 5°C
Supply indication	green LED
Tolerance sensor	±5%
Output	1×SPST
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10 ⁷
Electrical life(AC1)	1×10 ⁵
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max.cable size(mm ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)
Dimensions	90×18×64mm
Weight	62g
Standards	EN 60255-1

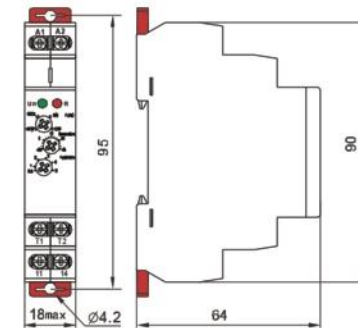
Wiring Diagram



Functions Diagram



Dimensions(mm)



General

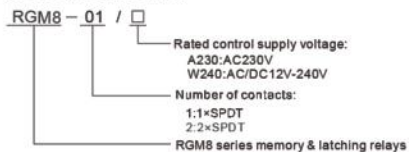
■ Applications

-latching relay, controlled by buttons from several loacations can replace three way switches or cross bar switches thanks to control by buttons(un-limited number,connected inparallel by 2 wires),installation gets more transparent and faster for mounting.

■ Function Features

-Voltage range: AC 230 V,AC/DC12V-240V clamp terminals.
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

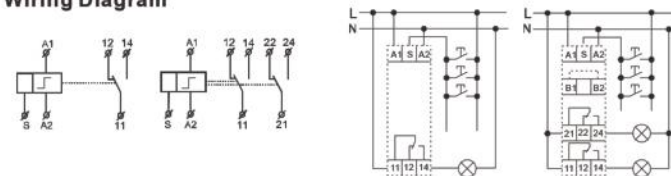
■ Model and connotation



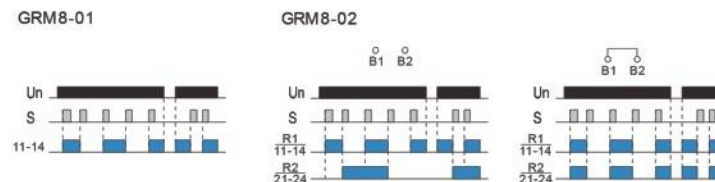
Technical parameters

Technical parameters	RGM8-01	RGM8-02
Number of function	1	2
Supply terminals	A1-A2	
Voltage range	AC/DC 12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.2W	
Voltage range	AC 230V(50-60Hz)	
Power input	AC max. 12VA/1.3W	AC max. 12VA/1.9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Control terminals	A1-S	
Glow tubes connetions	Voltage range: AC 230V Yes(A1-S)	
Max. amount of glow lamps	230V,max.75 pcs(Measured with glow lamp 0.68mA/230V AC)	
Impulse length	min.25ms	
Temperature coecient	0.05%/°C, at=20°C(0.05%°F , at=68°F)	
Output	1xSPDT	2xSPDT
Current rating	16A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1x10 ⁷	
Electrical life(AC1)	1x10 ⁵	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overtoltage cathegory	III.	
Pollution degree	2	
Max.cable size(mm ²)	solid wire max.1x2.5or 2x1.5/with sleeve max.1x2.5(AWG 12)	
Dimensions	90x18x64mm	
Weight	1xSPDT: W240-58g,A230-57g	
	2xSPDT: W240-79g,A230-77g	
Standards	EN 61810-1	

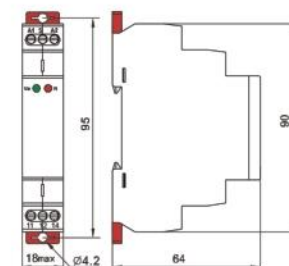
Wiring Diagram



Functions Diagram

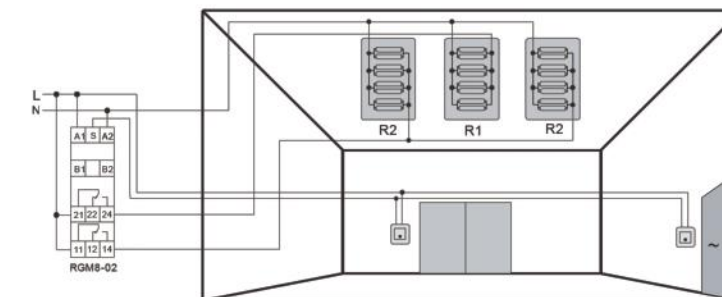


Dimensions(mm)



Example

Example of lighting system which allows control of light intensity by actuating one of the sections R1 and R2 from any location in the room.





ST63-1P ST63-2P ST63-4P

Rated Voltage: 220V AC 380V AC 500V
AC Rated Current: up to 100A Standard specifications: IEC 269 IEC 63211



ST32-1P ST32-2P ST32-3P ST32-4P



ST100-1P ST100-2P ST100-3P ST100-4P

Size of fuse link	Rated current A	Number of poles	Order No.	Packing Units	Approx weigh/unit kg
10X38	32	1	1800101	12	0.075
		1+N	1800201	6	0.16
10X38	32	2	1800202	6	0.15
		3	1800301	4	0.225
10X38	32	3+N	1800401	3	0.31
		1	1801101	6	0.18
14X51	63	1+N	1801201	3	0.37
14X51	63	2	1801202	3	0.36
14X51	63	3	1801301	2	0.54
		3+N	1801401	2	0.73
22X58	100	1	1802101	6	0.29
		1+N	1802201	3	0.60
22X58	100	2	1802202	3	0.58

Size of fuse link	Rated current A	Number of poles	Order No.	Packing Units	Approx weigh/unit kg
22X58	100	3	1802301	2	0.88
		3+N	1802401	2	1.20
10X38	32	1+LED	1800102	12	0.075
		1+N+LED	1800210	6	0.16
10X38	32	2+LED	1800211	6	0.15
10X38	32	3+LED	1800302	4	0.225
		3+N+LED	1800402	3	0.31
14X51	63	1+LED	1801102	6	0.18
		1+N+LED	1801210	3	0.37
14X51	63	2+LED	1801211	3	0.36
14X51	63	3+LED	1801302	2	0.54
		3+N+LED	1801402	2	0.73



RGC20

TIME SWITCH

24hours time switch

- EASY to program
 - Directly at DIN rail 54x60mm
 - Programming resolution of 15 minutes/30 minutes
 - Manual ON/OFF/AUTO override
 - SODT 16A (Resistive load)switch
 - LCD display with backlight
- Code:RGC20**



RGC15A RGC15

Weekly Programmable Time Switch

- 8 time/week or day
 - SPDT 16A(Resistive load)switch
 - LCD display
 - DIN rail 36x60mm
- Code:RGC15/RGC15A**



RGC8A-1a RGC8A-2a

Weekly Programmable Time Switch

- 8 time/week or day
 - 25A 250VAC(1a)
 - LCD display
 - DIN rail 50x60mm
 - 2 channel each 4time/week or day
 - 25A 250VAC(2a)
 - LCD display
 - DIN rail 50x60mm
- Code:RGC8A-1a Code:RGC8A-2a**



RGC15B

Astronomical Time Switch

- Automatically adjust on & off set according to different latitude zone,
 - different seasons and different sunlight shining time
 - Solar time switch
 - Directly at DIN rail 36x60mm
 - Manual ON/OFF/AUTO override
 - SPDT 16A(Resistive load)switch
- Code:RGC15B**



RGC1Y-S

TIME SWITCH

Water Level Control

- Automatic water supply
- Code:RGC1Y-S



RGC1Y-SD

RGC1Y-T

Water Level Control

- Automatic water supply and drainage control
- Code:RGC1Y-SD
- Two pumps alternation relay
- Code:RGC1Y-T



DP15

Digital Panel Meter

- 3 1/2 digit LCD display
- Directly at DIN rail 36x60mm
- Measure range: A-5-2000A(select Inside)
- V-2-600V(select Inside)

Code:DP15



RGC18

RGC19

Staircase Light Time Switch

- 0.5m~20m
- 16A 250VAC(Resistive Load)
- Directly at DIN rail 18x60mm

Code:RGC18

Timer

- Directly at DIN rail 24x60mm
- 0.1s~10h(three type)
- Contact: 1c 3A 250VAC(Resistive Load)
- Power: AC/DC 100~240V

Code:RGC19



RSTB

TIME SWITCH

Detect Faulty Phase Sequence/ Total Loss of Phase(S)

- Monitoring of rotation direction of phases
- Detection of complete failure of one or more of the phases
- Under voltage detection(-10%)
- Over voltage detection(+10%)
- Detection of phase asymmetry(imbalance)(±10%)
- Adjustable time delay from 0.1s to 10s.
- SPDT 10A 250VAC(Resistive load)switch

Code:RSTB



RSTC

- Directly st DIN rail 24x60mm
- RSTC is a 3-phase monitor designed to detect
- *Wrong phase sequence
- *Total absence of one,two or all three phases
- The RSTC measures on its own 3-phase power supply and operates when both conditions exist.
- SPDT 10A 250VAC(Resistive load)switch

Code:RSTC



C19-Y

Star Delta Start Timer

- Adjustable time from 1s~100s.
- SPDT 10A 250VAC(Resistive load)switch
- Directly at DIN rail 24x60mm

Code:C19-Y



DGD7

DGD7 TIME DELAY SWITCH

Application:

DGD7 time delay control switch is used in AC circuit with 50Hz/60Hz, 250V, rated current less than 16A to break lighting and electrical appliance automatically. It mainly used to control the corridor and stairs lighter of dwelling and commercial building.

Features:

- a. The connection way and time of delay can be adjusted freely. It has two choices of function device, turning on forever and time delay break. The time of time delay break device can be adjusted between 0.5~12min.
- b. It is convenient to use, act automatically and saving energy. It will light once we choose the time delay break button, and it will break automatically after we leave.
- c. One time delay switch can control 100pcs 20W lamp at the same time.
- d. Easy mounting. The mounting way is standard rail way mounting same as MCB. It can be mounted in consumer box together with MCB.



Technical data:

Rated Voltage U_i (V)	50Hz/60Hz
Rated current(A)	16A
Delayed time range	0.5~12MIN
Max power	2000W

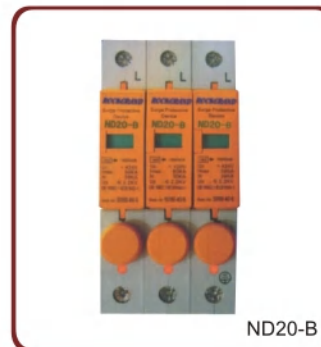
Configuration and Mounting Dimensions:



ND20-C

ND20 FUSE COMBINATION SURGE PROTECTOR

- Nominal voltage U_n (AC):380V
 - Maximum concession voltage U_c (AC):420V
 - Leakage current for each way I $1e \leq 20\mu A$
 - Break-over voltage V_{1mA} (DC): $680V \pm 10\%$
 - Discharge current $I_n/20\mu S$: $\leq 20KA$ I_{max} :40KA(8/40us)
 - Protection level U_p (40KA): $\leq 2.0KV$
 - Response time t_a : $\leq 25ms$
 - Insert line sectional area S : $4 \leq S \leq 35mm^2$
 - Keep characteristic way:Voltage limiting type
 - Port way:Crimp terminal
 - Sheating materia:Flame-retardant PC plastic
 - Operating temperature:-40~+85°C
 - Dimension:72x111.5x72.8mm
 - Alarm terminal can be equipped if needed
- Code:ND20-C/ND20-B



ND20-B

ND20 POWER SURGE PROTECTOR

Technical parameters

Index	Mode	ND20/	ND20/	ND20/	ND20/	ND20/
		-140	-275	-320	-385	-420
Maximum continuous operating voltage U_e		140V	275V	320V	385V	420V
Voltage protection level		0.8kV	1.2kV	1.5kV	1.8kV	2.0kV
Nominal discharge current		10	10	10	10	10
Maximum discharge current		20	20	20	20	20
Response time ns		<25				
Test level		III				
Width mm		18				
Color		Yellow				
Protection grade		Ip20				
Shell material		Reinforced flame retardant PBT				
Ambient temperature		-40°C~+85°C				
Fuse or circuit breaker(A)		20A				
Line specification	Phase line, a zero line	2.5~35mm ²				
	Ground wire	4.5~35mm ²				
	Signal line	1.5mm ²				



ND20-C



ND20-C

POWER SURGE PROTECTOR

Serial No.	Mode	Pole No.	Uc (V)	In (kA)	Imax (kA)	Up (kV)	Use
1	ND20-C/1-140	1	140	10	20	<0.8	
2	ND20-C/1-275	1	257	10	20	<1.2	
3	ND20-C/1-320	1	320	10	20	<1.5	
4	ND20-C/1-385	1	385	10	20	<1.8	
5	ND20-C/1-420	1	420	10	20	<2.0	
6	ND20-C/2-140	2	140	10	20	<0.8	
7	ND20-C/2-275	2	275	10	20	<1.2	
8	ND20-C/2-320	2	320	10	20	<1.5	
9	ND20-C/2-385	2	385	10	20	<1.8	
10	ND20-C/2-420	2	420	10	20	<2.0	
11	ND20-C/2Q-385	3	385	10	20	<2.0	
12	ND20-C/3N-275	3	275	10	20	<1.2	
13	ND20-C/3N-320	3	320	10	20	<1.5	
14	ND20-C/4-275	4	275	10	20	<1.2	
15	ND20-C/4-320	4	320	10	20	<1.5	
16	ND20-C/4-385	4	385	10	20	<1.8	
17	ND20-C/4-420	4	420	10	20	<2.0	

POWER SURGE PROTECTOR

Technical parameters

Index	Mode	ND20/ □ -140	ND20/ □ -275	ND20/ □ -320
	Maximum continuous operating voltage Ue		320V, 385V, 420V	
Nominal discharge current		40kA		
Maximum discharge current		80kA		
Voltage protection level		2.0kV		
Response time t		<25ns		
Test level		I		
Protection grade		Ip20		
Ambient temperature		-40℃~+85℃		
Fuse or circuit breaker(A)		63A-100A		
Color	Modular	Orange red		
	Base	Gray		
Shell material		Reinforced flame retardant PBT		
Line specification	Phase line, a zero line	2.5~35mm ²		
	Ground wire	4.5~35mm ²		
	Signal line	1.5mm ²		
Annex		Can add another remote electric shock		



ND20-B



ND20-B



ND20-B

POWER SURGE PROTECTOR

Serial No.	Mode	Pole No.	Uc (V)	In (kA)	Imax (kA)	Up (kV)
1	ND20-80/3-385	3	385	80	2.5	<0.8
2	ND20-80/3N-385	4	385	80	2.5	<1.2
3	ND20-80/4-385	4	385	80	2.5	<1.5
4	ND20-80/3-420	4	420	80	3.0	<1.8
5	ND20-80/3N-420	4	420	80	3.0	<2.0
6	ND20-80/4-420	4	420	80	3.0	<0.8

Note

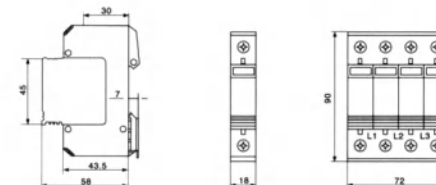
Maximum continuous operating voltage Ue:Ue 320V, 385V, 420V
 Test level:I
 Voltage protection level:Up<2.0, 2.5, 3.0kV
 Maximum discharge current(8/20us):Imax 60, 80, 100KA
 Nominal discharge current(8/20us):In30, 40, 60KA

POWER SURGE PROTECTOR

Protection for the normal working conditions:

Code:ND10-C
 a.Altitude not exceeding 2000m
 Ambient air temperature:
 The normal range: -5 ~ +40℃
 Extended range: -40 ~ +80℃
 Relative humidity: room temperature 30%-90%
 b.without significant shake and impact vibration of place
 c. without the risk of explosion in the medium, and medium non-metal corrosion and damage to the insulation of gas and dust (including conductive dust

Protection outline and mounting dimensions



ND10-C



ND10-C



ND10-B

POWER SURGE PROTECTOR

Outline

ND10-B series surge protective device (hereinafter referred to as SPD) in ChinaAdvanced technology basically developed new replaceable SPD. SPD is suitable for AC rated voltage below 380V 50/60Hz. Power supply system, the indirect lightning and direct effects of lightning or otherTransient voltage surge protection. SPD (MC) with common mode and differential mode (DC) protection means. SPD conform GB18802.1/IEC61643-1.

Main technical parameters

Model Specification	ND10-B/100	ND10-B/80	ND10-B/60	ND10-B/120
Grid operation voltage Un(V)	2P1P+N 4P3P+N	2P1P+N 4P3P+N	2P1P+N 4P3P+N	2P1P+N 4P3P+N
Maximum continuous operating voltage Uc(V)	275/420 275/420	140/275 275/420	140/275 275/420	275/420 275/420
Voltage protection level Up(kV)<	2.8/3.0	2.4	2.4	3.0/3.5
Maximum discharge current	100	80	60	120
Nominal discharge current	60	40	30	80
Response time ns	<25			
Protection class	IP20			
Use	Line Protection			

Working Principle

Built-disconnector SPD failure due to overheating, breakdown, detachment can automatically be separated from the power line, and at the same time give an indication signal.Normal operating window visual display of white, red display after failure and separation.

Installation

The LPZOB, or LPZ1 area with LP22 area at the junction with 35mm standard rail installation, connected to a copper wire of 2.5-35mm².

SPD per pole must be set to protect a fuse or miniature circuit breakers.

Users can root needs, free combination into a single-phase or four-phase surge protector



ND15-B

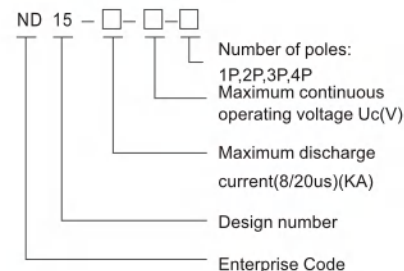
POWER SURGE PROTECTOR

Outline

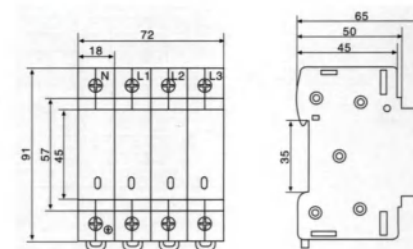
ND15-C series surge protector (hereinafter referred to as SPD) suitable for AC 50/60Hz. Rated voltage to 380V of IT, TT, TN-C, TN-S, TN-CS. Such as power supply system, the impact of indirect lightning and direct lightning or other transient voltage surge protection, a lightning protection system device applied to the high risk of lightning region A surge protector in accordance with the standard of IEC 61643-1: 1998-02, Class B surge protector.

SPD in line with the G B18802.1/IEC61643-1.

Model and meaning



Dimensions



Main technical parameters

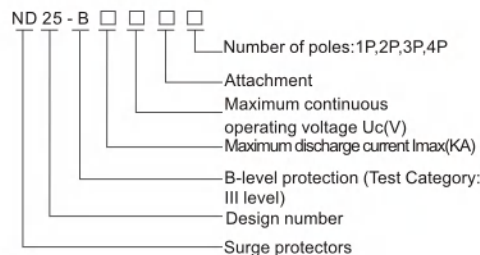
Model Specification	ND15-D/15	ND15-C/40	ND15-B/65
Grid operation voltage Un(V)	380	380	380
Maximum continuous operating voltage Uc(V)	420	420	420
Voltage protection level Up(kV)<	≤1.8	≤1.8	≤1.8
Maximum discharge current	15	40	65
Nominal discharge current	8	20	35
Response time ns	<25		
Protection class	Ip20		
Installation	35mm Track		
Case Material	Flame-retardant PC		
The remote tele signalling Contact Type	Normally open contact		
Terminal performance	AC220V 1A DC30V 1A COSΦ=1		
The terminal conductor cross-section of the remote signaling	1.5mm ² Single strand/double strand		



ND25-B

ND25-BSURGE PROTECTORS

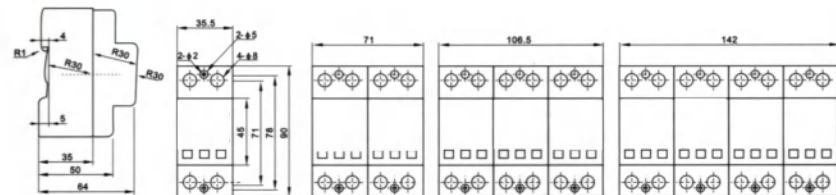
Model and meaning



Main technical parameters

Model Specification	200V 380V		220V 380V		220V 380V		220V 380V	
Grid operation voltage Un(V)	200V	380V	220V	380V	220V	380V	220V	380V
Maximum continuous operating voltage Uc(V)	385V	420V	385V	420V	385V	420V	385V	420V
Voltage protection level Up(kV)	≤4.0	≤4.5	≤3.4	≤3.7	≤2.8	≤3.2	≤2.4	≤1.8
Maximum discharge current	150	120	100	80				
Nominal discharge current	100	80	60	40				
Response time ns	<100							
Access wire cross-sectional areaL/N(mm ²)	20、35	16、25	16、25	16、25				
Access ground wire cross-sectional areaPE(mm ²)	35	20、35	25、35	25、35				
Fuse or circuit breaker selection	63A、35A	63A、100A	63A、100A	63A				
The cross-sectional area of the communication, alarm line	≥1.5							
Work environment	-40℃~+85℃							
Relative humidity	≤95%							
Installation	Standard to the track							
Case Material	Glass fiber reinforced plastic							

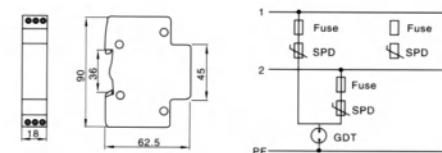
Dimensions



NDD10-D20

POWER MINE

Model Specification	NDD10-D20			
Grid operation voltage Un(V)	5	12	24	48
Maximum continuous operating voltage Uc(V)	8	18	36	75
Voltage protection level Up(kV)<	<300	<350	<400	<500
Nominal discharge current(kA)	5			
Maximum discharge current(kA)	10			
Connection	Terminal Blocks			
Response time ns	<25			
Case Material	Reinforced and flame retardant dragon (flame retardant VO level)			
Installation	35MM standard rail mounting			
Then recommended grounding wire interface	1mm ² shares soft wire			



AC / DC-POWERED SURVEILLANCE CAMERAS SURGE PROTECTOR



NDX25-DC220V

Model Specification	NDX25	
Function	Video / power / control	
Power protection parameters		
Maximum continuous operating voltage	320V	40V
Load current	10A	5A
Limit voltage	900V	75V
Nominal discharge current	5kA	5kA
Maximum discharge current	10kA	10kA
Audio/video parameters		
Maximum continuous operating voltage	8V	
Limit voltage	15A	
Nominal discharge current	5kA	
Maximum discharge current	10kA	
Maximum transfer rate	10MHz(Insertion Loss<0.2dB)	
PTZ control video signal protection parameters (SV-3 have)		
Maximum continuous operating voltage	8V	
Limit voltage	15A	
Nominal discharge current	5kA	



NDX21-RJ45

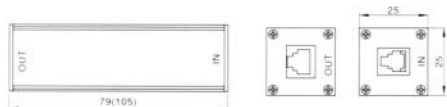
AC / DC-POWERED SURVEILLANCE CAMERAS SURGE PROTECTOR

Application

NDX21-RJ45 series signal surge protector (hereinafter referred to as SPD) apply to the Modem, DDNLine, fax machine, telephone circuit to prevent the indirect lightning or direct lightning impact, networkOvervoltage signal equipment damage.

NDX21-RJ45 series signal surge protector (hereinafter referred to as SPD) applies to the computer network(Ethernet, LAN, Token Ring), servers, routers, HUB, broadband, crude protectionThe fine protection fine protection function can meet the range of anti-surge protection, protection of the RJ45 interfaceElevated to prevent Corner potential or the line induced overvoltage signal equipment damage.

Dimensions



COAXIAL COMMUNICATION SIGNAL SURGE PROTECTOR



NDX11-BCN/75D5

Model Specification	NDX11
Interface type	N/F/BING/TNC
Operating voltage	24V
Maximum continuous operating voltage U _c (V)	30V
Nominal discharge current (8/20 μ s) I _n (kA)	10kA
Characteristic impedance	50/75 Ω
Insertion Loss	≤0. 1dB
Limit voltage	<120V
Failure mechanisms	Communication lines to short-circuit
Remark	Housing ground



DGAD11 DGAD21 DGAD31

INDICATOR LIGHT

Description: DGAD Indicator Light

Color: Red/Green/Yellow/Bule

Working Voltage: 230V AC

Code: DGAD11/DGAD21/DGAD31

LED

BUZZER

Working Voltage: 230V AC

Code: DGAC1



DGAC1

DGC1-125 ISOLATING SWITCH

Application:

Having superior dynamic-heating ability, it is mainly used as a main switch for both Terminal assembly electric equipment case, and illumination assembly case, and to control various motors and small power electric equipment as well, it has no function of protection of over load short-circuit.

Specifications

Rated Voltage (V)	Rated current of trips(A)	Compliance with standard
1 Pole:230/240	16,20,32,40,	IEC408 IEC60847-3
2,3,4 Pole:400/415	63,100,125A	BS5419 VDE0660



DGG1-125



RG-A-1P



RG-A-3P

GHBH MINI CIRCUIT BREAKER

Application:

The series moulded case circuit breaker mainly applies to lighting line with AC 50Hz, single phase 240V, three phase 415V and below to protect overload, short circuit and can be used as switch of line.

Pole NO. (P)	Rated current (A)	Rated voltage (V)	Rated making and breaking capacity(KA)		Setting Temperature of protective characteristics
			B.S	NEMA	
1	6, 10, 15, 20, 30, 40, 50, 60, 70, 85, 100	AC120		5/10	40
		AC 120/240		5/10	
		AC 240/415	3		
2	6, 10, 15, 20, 30, 40, 50, 60, 70, 85, 100	AC 120/240		5/10	40
		AC 240/415	3		
		AC 240/415	3		

Din Rail Socket



G2PT	
Nominal current	16A
Nominal voltage	250V
Number of modules	2.5
Edged with child protection	
Edged without child protection	



F2PT	
Nominal current	16A
Nominal voltage	250V
Number of modules	2.5
Pin with child protection	



AC-1 10/16A



AC-2 16A



AC-3 16A



AC-4/3 25A



Application

Modular contactors are essential for control and automation duties in Dwelling, offices, shops and hospitals. They are particularly suitable for switching lighting installations, heat pumps, night storage heating, air-conditioned plant and for other devices in building automation.

Features

- Standardized design
- Silent operating by virtue of solenoid system
- Switching condition indication
- Singer protection to VDE0106part 100.

Technical Data

- Standard control voltage(Ue):220-230V/50-60HZ
- Thermal continuous current(Ith):24,40,63A
- Current ratings for AC1:24,40,60A
- Pole number:4(either as main or auxiliary contacts)
- Back up fuse gl max rating:35,63,80A
- Mechanical endurance:1 million cycles
- Electrical endurance:1 million cycles
- Ambient temperature:-25°C--+55°C
- Connection capacity:tunnel terminal for cables up to 25mm
- Width in 17.5mm modules
- 24A 35mm(2 modules 20A)
- 32A 52.5mm(3 modules)
- 40A 52.5mm(3 modules)
- 63A 52.5mm(3 modules)
- Standard:IEC947-4

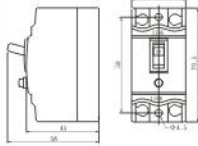
Installation

On Symmetric Din Rail

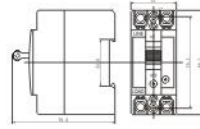
Model	In	Rated Power(kw)	Model	in	Rated Power(kw)
	25 230V 400V 230V 400V		40	230V 400V 230V 400V	
RGMC-25	(A)	AC1 Ac3	RGMC-40	(A)	AC1 Ac3
	- 9 16 2.2 4.0			- 16 26 5.5 11.0	
Model	In	Rated Power(kw)	Model	in	Rated Power(kw)
RGMC-32	(A)	AC1 Ac3	RGMC-63	(A)	AC1 Ac3
	32 230V 400V 230V 400V		632	230V 400V 230V 400V	
	- 18 22 4.4 7.5			- 24.0 40.0 8.5 15.0	



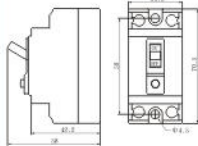
RGL-32(a)



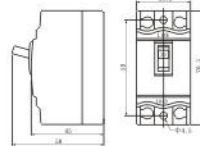
RGL-40



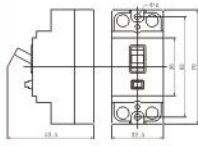
RGL-32(b)



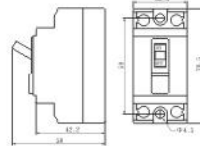
RGN-32(a)



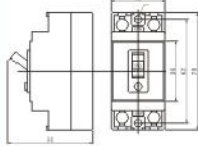
RGL-32(c)



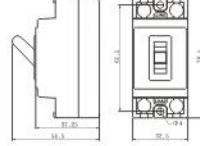
RGN-32(b)



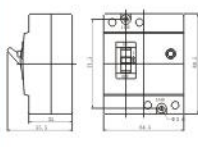
RGL-32(d)



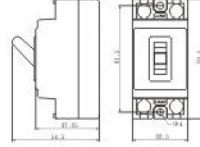
RGN-32(c)



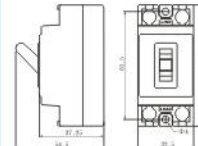
RGL18-32



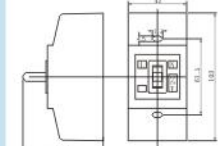
RGN-32(d)



RGN-32(f)



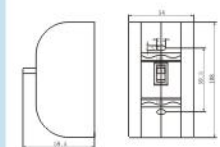
RGN-32(S2)



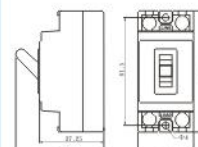
RGN-32(h)



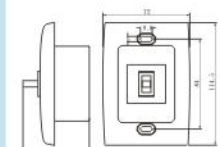
RGN-32(S3)



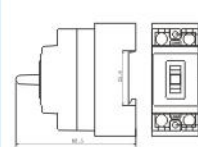
RGN-32(k)



RGN-32(S6)



RGN-32(cz)



RGN-32(S1)

