



People Ele. Appliance Group Co., Ltd.

No.555, Chezhan Road, Liushi, Yueqing City, Zhejiang Province, 325604, China

Tel: +86-577-62730758, Fax: +86-577-62730655 www.peopleelectric.com www.chinapeople.com



People Electric

Low voltage

Selection Guide



Providing Safer electrical products globally



COMPANY PROFILE

公司简介

People Ele. Appliance Group was wholly owned company of People Holding Group, one of Chinese Top 500 Enterprise, and founded in the year 1996.

Industrial electrical products as the core business of People Ele. Appliance Group, People Electric owns Zhejiang, Shanghai, Nanchang and Fuzhou four manufacturing bases, 12 wholly owned subsidiaries, 85 holding member enterprises, over 800 cooperated processing enterprises and over 3000 sales companies

The products are popularly sold to over 70 countries and regions, which are widely used in Pudong Airport, Beijing-Shanghai high-speed railway, Three Gorges Hydropower, Beijing Subway, Olympic venues, South North Water Transfer, Qinghai-Tibet Railway, Chang'e Lunar Exploration Project and Vietnam Taian hydropower project etc. major projects at home and abroad, which ranked among the World's Top 500 Machinery Enterprises.

Assess by the World's Brand Laboratory, the brand value reaches to RMB 30.512 billion Yuan.

Perfect industry chain and personalize solutions, Satisfying the different requirements of global customers



Power and energy

- Power
- Petroleum and petrochemical
- Transportation



Industry and machinery

- Mining / building materials
- Water / water treatment
- Car



Data center

- IT
- High technology
- Internet



Commercial network

- Bank insurance
- Public construction
- Community facility



Building

- Official building
- Industrial building
- Basic facility



Residence

- Residential construction
- Public construction
- Community facility

More safety

Ensure the safety of life and property

More reliable

Supply the power uninterruptedly

More efficient

Reducing the consumption of energy and the cost, shorten the time of supply

More economic

Optimize the process of the machinery and factory, improving the comfortability of use.

More eco-friendly

Supply the energy through the renewable energy, reducing the carbon emissions

Contents

Miniature Circuit Breaker	01
DZ47-63	01
RDB67-63	02
RDB67-63H	03
RDB5-63	04
RDX6-63	05
RDX65-63	06
RDX2-125	07
RDX30-32	08
RDX6-40	09
RDX30N-32	10

Residual Current Circuit Breaker	11
RDL6-40	11
RDL8-40	12
RDL9-40	13
DZ47LE-63	14
RDB5LE-63	16
RDB67LE-63	18
RDX2LE-125	20
RDX6LE-63	22
RDX30LE-32	24
RDX65LE-63	26
RDL7-100	28
PID-125	30
PF360	32

Surge Protection device	34
RDSP6	34

Contents

Moulded Case Circuit Breaker	36
RDM1	36
RDM11	44
RDM1E	48
RDM5	53
RDM1L	57
ABE	61
ABN	63

Air circuit breaker	65
RDW1	65
RDW5	68

AC contactor	74
RDCH8	74

Automatic transfer switch	77
RDH5D	77
RDQ1	87
RDQH	91

Isolating Switch	95
HL32-100(PH2-100)	95
RDX6SD-100	97

MINIATURE CIRCUIT BREAKER

DZ 47-63

Miniature Circuit Breaker



Application

DZ47-63 miniature circuit breaker is applicable to a circuit of AC50/60Hz, 230V (single phase), 400V(2,3, 4 phases), for overload and short circuit protection.

Rated current up to 63A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898-1.

Model No.

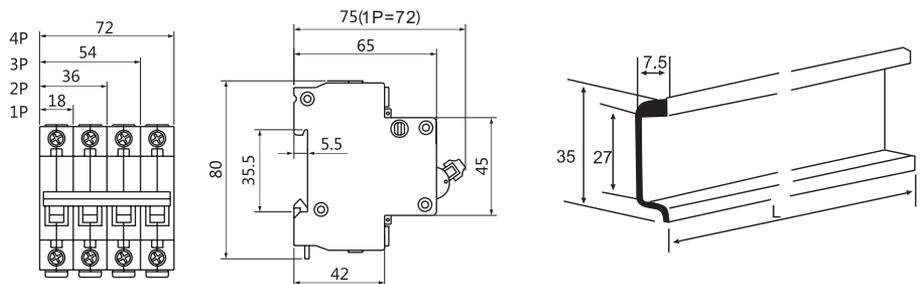
DZ 47 - 63



Technical specifications

Pole	1P,2P,3P,4P
Rated voltage Ue(V)	230/400~240/415
Insulation voltage Ui(V)	500
Rated frequency(Hz)	50/60
Rated current In(A)	2,4,6,10,16,20,25,32,40,50,63A
Type of instantaneous release	B,C,D
Protective grade	IP 20
Breaking capacity(A)	4500
Mechanical life	8000 times
Electrical life	4000 times
Ambient temperature(°C)	-5~+40 (with daily average ≤35)
Terminal connection type	Cable/Pin type busbar

Dimension(mm)



RDB67-63

Miniature Circuit Breaker



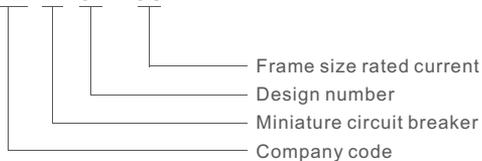
Application

RDB67-63 miniature circuit breaker is applicable to a circuit of AC50/60Hz, 230V (single phase), 400V(2,3, 4 phases), for overload and short circuit protection.

Rated current up to 63A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898-1.

Model No.

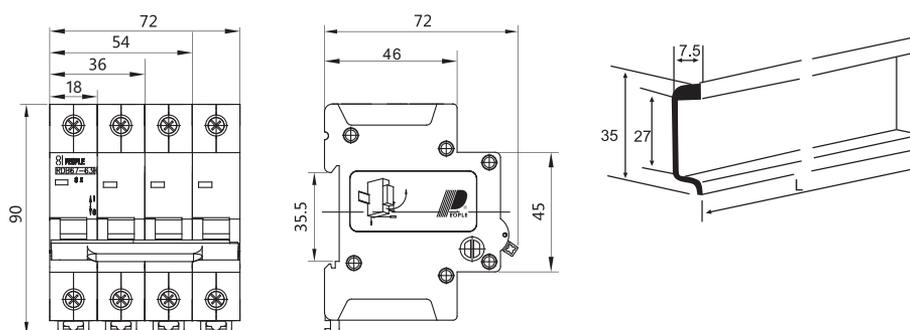
RD B 67 - 63



Technical specifications

Pole	1P,2P,3P,4P
Rated voltage Ue(V)	230/400~240/415
Insulation voltage Ui(V)	500
Rated frequency(Hz)	50/60
Rated current In(A)	2,4,6,10,16,20,25,32,40,50,63A
Type of instantaneous release	B,C,D
Protective grade	IP 20
Breaking capacity(A)	6000
Mechanical life	12000 times
Electrical life	4000 times
Ambient temperature(°C)	-5~+40 (with daily average ≤35)
Terminal connection type	Cable/Pin type busbar

Dimension(mm)



MINIATURE CIRCUIT BREAKER

RDB67-63H

Miniature Circuit Breaker

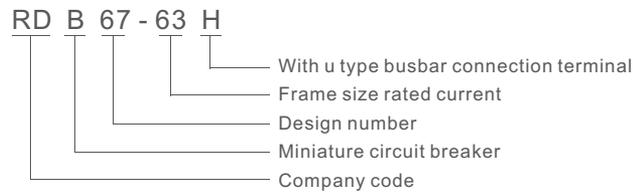


Application

RDB67-63H miniature circuit breaker is applicable to a circuit of AC50/60Hz, 230V (single phase), 400V(2,3, 4 phases), for overload and short circuit protection.

Rated current up to 63A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898-1.

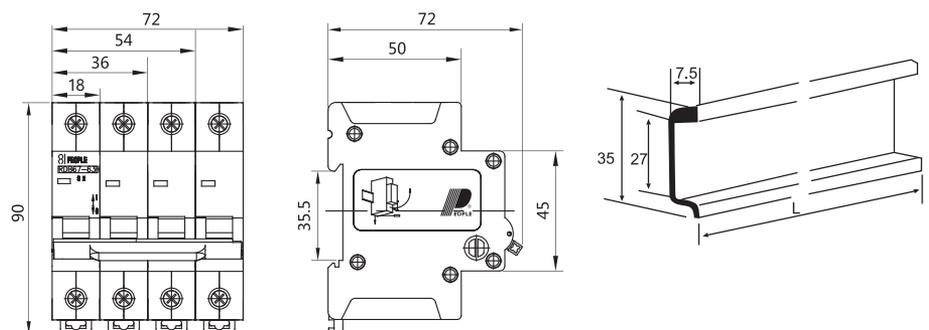
Model No.



Technical specifications

Pole	1P,2P,3P,4P
Rated voltage Ue(V)	230/400~240/415
Insulation voltage Ui(V)	500
Rated frequency(Hz)	50/60
Rated current In(A)	2,4,6,10,16,20,25,32,40,50,63A
Type of instantaneous release	B,C,D
Protective grade	IP 20
Breaking capacity(A)	6000
Mechanical life	12000 times
Electrical life	4000 times
Ambient temperature(°C)	-5~+40 (with daily average ≤35)
Terminal connection type	Cable/Pin type busbar / U type busbar

Dimension(mm)



RDB5-63

Miniature Circuit Breaker



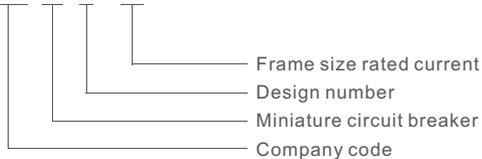
Application

RDB5-63 miniature circuit breaker is applicable to a circuit of AC50/60Hz, 230V (single phase), 400V(2,3, 4 phases), for overload and short circuit protection.

Rated current up to 63A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898-1.

Model No.

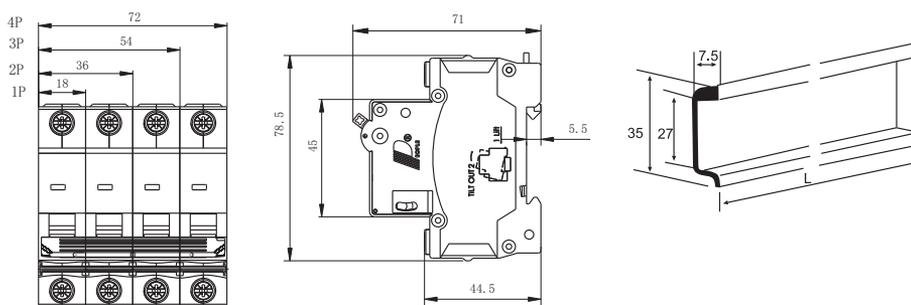
R D B 5 - 63



Technical specifications

Pole	1P,2P,3P,4P
Rated voltage Ue(V)	230/400~240/415
Insulation voltage Ui(V)	500
Rated frequency(Hz)	50/60
Rated current In(A)	2,4,6,10,16,20,25,32,40,50,63A
Type of instantaneous release	B,C,D
Protective grade	IP 20
Breaking capacity(A)	6000
Mechanical life	20000 times
Electrical life	4000 times
Ambient temperature(°C)	-5~+40 (with daily average ≤35)
Terminal connection type	Cable/Pin type busbar

Dimension(mm)



MINIATURE CIRCUIT BREAKER

RDX6-63

Miniature Circuit Breaker



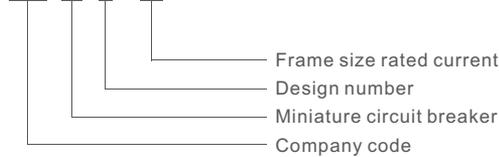
Application

RDX6-63 miniature circuit breaker is applicable to a circuit of AC50/60Hz, 230V (single phase), 400V(2,3, 4 phases), for overload and short circuit protection.

Rated current up to 63A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898.

Model No.

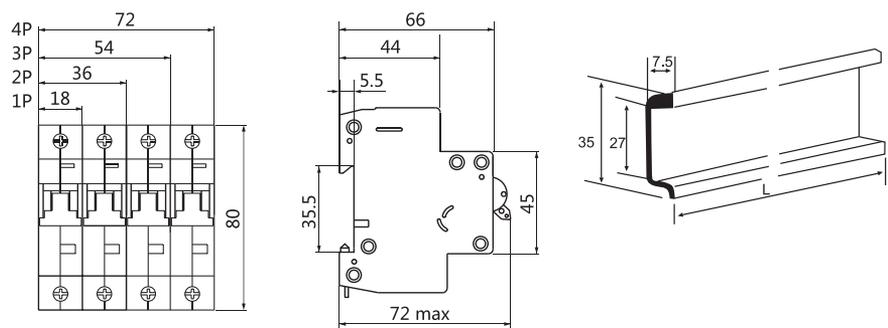
RD X 6 - 63



Technical specifications

Pole	1P,2P,3P,4P	1P,2P,4P
Rated voltage Ue(V)	230/400~240/415	220/400/1000
Insulation voltage Ui(V)	500	
Rated frequency(Hz)	50/60	DC
Rated current In(A)	2,4,6,10,16,20,25,32,40,50,63A	
Type of instantaneous release	B,C,D	B,C
Protective grade	IP 20	
Breaking capacity(A)	10000	6000
Mechanical life	20000 times	
Electrical life	4000 times	
Ambient temperature(°C)	-5~+40 (with daily average ≤35)	
Terminal connection type	Cable/Pin type busbar / U type busbar	

Dimension(mm)



MINIATURE CIRCUIT BREAKER

RDX2-125

Miniature Circuit Breaker



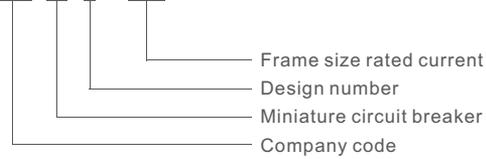
Application

RDX2-125 miniature circuit breaker is applicable to a circuit of AC50/60Hz, 230V (single phase), 400V(2,3, 4 phases), for overload and short circuit protection.

Rated current up to 63A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898-1.

Model No.

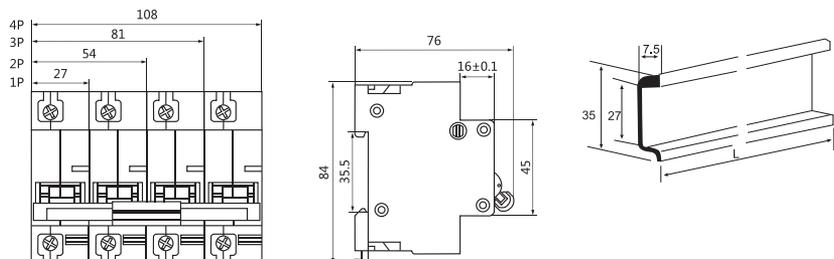
RDX2-125



Technical specifications

Pole	1P,2P,3P,4P
Rated voltage $U_e(V)$	230/400~240/415
Insulation voltage $U_i(V)$	500
Rated frequency(Hz)	50/60
Rated current $I_n(A)$	63,80,100,125
Type of instantaneous release	8-12In
Protective grade	IP 20
Breaking capacity(A)	10000
Rated impulse withstand voltage(1.2/50) $U_{imp}(V)$	4000
Mechanical life	8000 times
Electrical life	1500 times
Ambient temperature($^{\circ}C$)	-5~+40 (with daily average ≤ 35)
Terminal connection type	Cable/Pin type busbar

Dimension(mm)



RDX30-32

Miniature Circuit Breaker



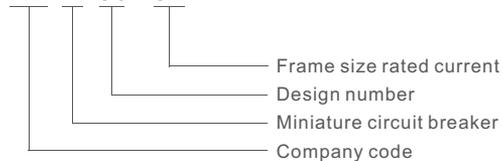
Application

RDX30-32 miniature circuit breaker(DPN) is applicable to a circuit of AC50/60Hz, 230V (single phase), for overload and short circuit protection.

Rated current up to 32A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898-1.

Model No.

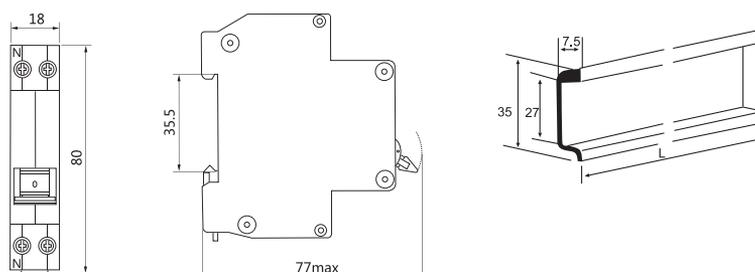
RD X 30 - 32



Technical specifications

Pole	1P+N
Rated voltage Ue(V)	230/400
Insulation voltage Ui(V)	500
Rated frequency(Hz)	50/60
Rated current In(A)	1,2,3,4,6,10,16,25,32A
Type of instantaneous release	B,C,D
Protective grade	IP 20
Breaking capacity(A)	4500
Mechanical life	10000 times
Electrical life	4000 times
Ambient temperature(°C)	-5~+40 (with daily average ≤35)
Terminal connection type	Cable/Pin type busbar

Dimension(mm)



MINIATURE CIRCUIT BREAKER

RDX6-40

Miniature Circuit Breaker



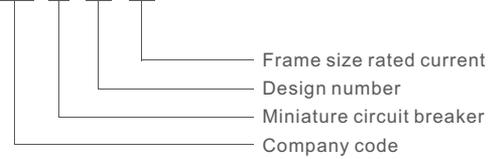
Application

RDX6-40 miniature circuit breaker(DPN) is applicable to a circuit of AC50/60Hz, 230V (single phase), for overload and short circuit protection.

Rated current up to 40A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898-1.

Model No.

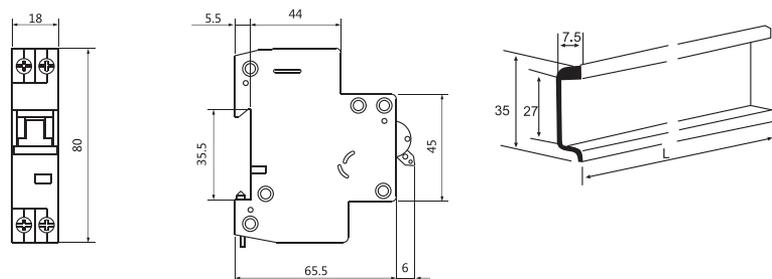
RDX6-40



Technical specifications

Pole	1P+N
Rated voltage Ue(V)	230/400
Insulation voltage Ui(V)	500
Rated frequency(Hz)	50/60
Rated current In(A)	1,2,3,4,6,10,16,25,32,40A
Type of instantaneous release	B,C,D
Protective grade	IP 20
Breaking capacity(A)	6000
Electrical life	8000 times
Mechanical life	20000 times
Ambient temperature(°C)	-5~+40 (with daily average ≤35)
Terminal connection type	Cable/Pin type busbar / U type busbar

Dimension(mm)



RDX30N-32

Miniature Circuit Breaker



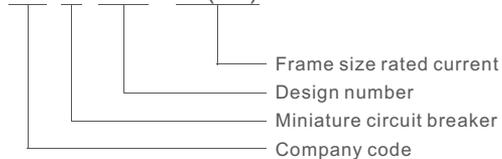
Application

RDX30N-32 (RDX65-40) miniature circuit breaker(DPN) is applicable to a circuit of AC50/60Hz, 230V (single phase), for overload and short circuit protection.

Rated current up to 40A. It also can be used as a switch for an infrequent conversion line. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN60898-1.

Model No.

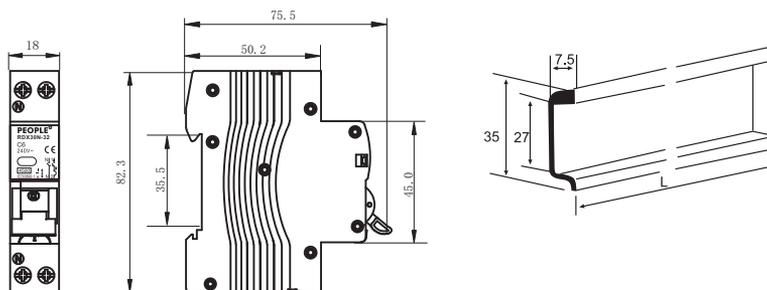
RD X 30N - 32(40)



Technical specifications

Pole	1P+N
Rated voltage Ue(V)	230/400
Insulation voltage Ui(V)	500
Rated frequency(Hz)	50/60
Rated current In(A)	1,2,3,4,6,10,16,25,32,40A
Type of instantaneous release	B,C,D
Protective grade	IP 20
Breaking capacity(A)	4500
Mechanical life	20000 times
Electrical life	8000 times
Ambient temperature(°C)	-5~+40 (with daily average ≤35)
Terminal connection type	Cable/Pin type busbar / U type busbar

Dimension(mm)



RESIDUAL CURRENT CIRCUIT BREAKER

RDL6-40(RCBO)

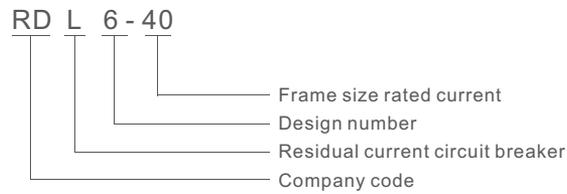
Residual Current Circuit Breaker



Application

RDL6-40 residual current circuit breaker with overload protection is applicable to a circuit of AC50/60Hz, 230V (single phase), for overload, short circuit and residual current protection. Electromagnetic type RCD. Rated current up to 40A. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN61009.

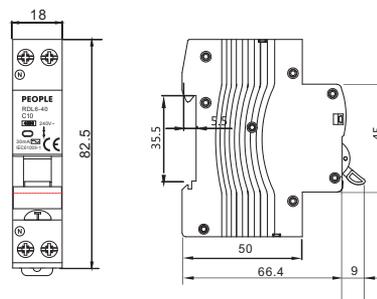
Model No.



Technical specifications

Standard	IEC/EN 61009
Type(wave form of the earth leakage sensed)	AC,A
Thermo-magnetic release characteristic	B,C
Rated current I_n	6,10,16,20,25,32,40A
Poles	1P+N
Rated voltage U_e	230/400-240/415V
Rated sensitivity $I_{\Delta n}$	0.03,0.1,0.3A
Rated short-circuit capacity I_{cn}	4500A
Break time under $I_{\Delta n}$	$\leq 0.1s$
Electrical life	2000 times
Mechanical life	2000 times
Mounting	On DIN rail EN60715(35mm)by means of fast clip device
Terminal connection type	Cable/pin type busbar/ U type busbar

Dimension(mm)



RDL8-40(RCBO)

Residual Current Circuit Breaker



Application

RDL8-40 residual current circuit breaker with over-current protection is applicable to a circuit of AC50/60Hz, 230V (single phase), 400V (three phases), for overload, short circuit and residual current protection.

Electromagnetic type RCD.

Rated current up to 40A. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN61009.

Model No.

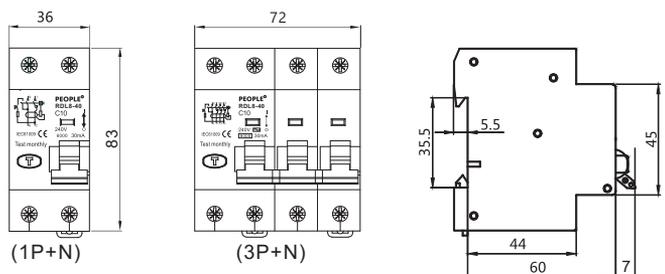
RD L 8 - 40



Technical specifications

Standard	IEC/EN 61009
Type(wave form of the earth leakage sensed)	AC,A
Thermo-magnetic release characteristic	B,C
Rated current I _n	6, 10, 16, 20, 25, 32, 40A
Poles	1P+N, 3P+N
Rated voltage U _e	230/400-240/415V
Rated sensitivity I _{Δn}	0.03, 0.1, 0.3A
Rated short-circuit capacity I _{cn}	6000A
Break time under I _{Δn}	≤0.1s
Electrical life	2000 times
Mechanical life	10000 times
Mounting	On DIN rail EN60715(35mm)by means of fast clip device
Terminal connection type	Cable/pin type busbar/ U type busbar

Dimension(mm)



RESIDUAL CURRENT CIRCUIT BREAKER

RDL9-40(RCBO)

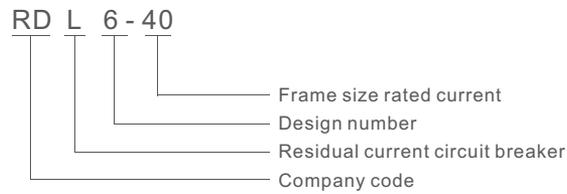
Residual Current Circuit Breaker



Application

RDL9-40 residual current circuit breaker with over-current protection is applicable to a circuit of AC50/60Hz, 230V (single phase), for overload, short circuit and residual current protection. Electromagnetic type RCD. Rated current up to 40A. It is mainly used in domestic installation, as well as in commercial and industrial electrical distribution systems. It conforms with the standard of IEC/EN61009.

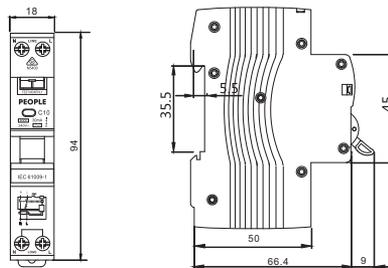
Model No.



Technical specifications

Standard	IEC/EN 61009
Type(wave form of the earth leakage sensed)	AC,A
Thermo-magnetic release characteristic	B,C
Rated current I_n	6,10,16,20,25,32,40A
Poles	1P+N
Rated voltage U_e	230/400-240/415V
Rated sensitivity $I_{\Delta n}$	0.03,0.1,0.3A
Rated short-circuit capacity I_{cn}	6000A
Break time under $I_{\Delta n}$	$\leq 0.1s$
Electrical life	2000 times
Mechanical life	2000 times
Mounting	On DIN rail EN60715(35mm)by means of fast clip device
Terminal connection type	Cable/pin type busbar/ U type busbar

Dimension(mm)



DZ47LE-63(RCBO)

Residual Current Circuit Breaker



Application

The DZ47LE-63 RCBO is designed to ensure the protection of low-voltage electrical applications up to 63A

Line protection against earthleakage, overload and short-circuits

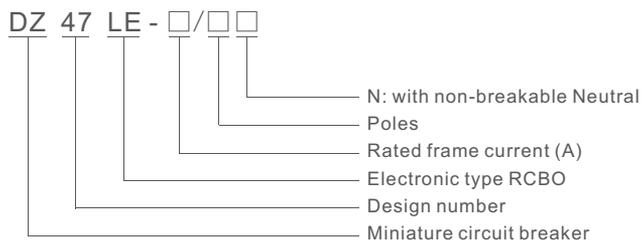
1P+N, 2P, 3P, 3P+N, 4P breakers with rating current from 2A to 63A

DIN-35 rail type mounting in the distribution board or cabinet

Electronic type RCD

Comply with IEC61009

Model No.



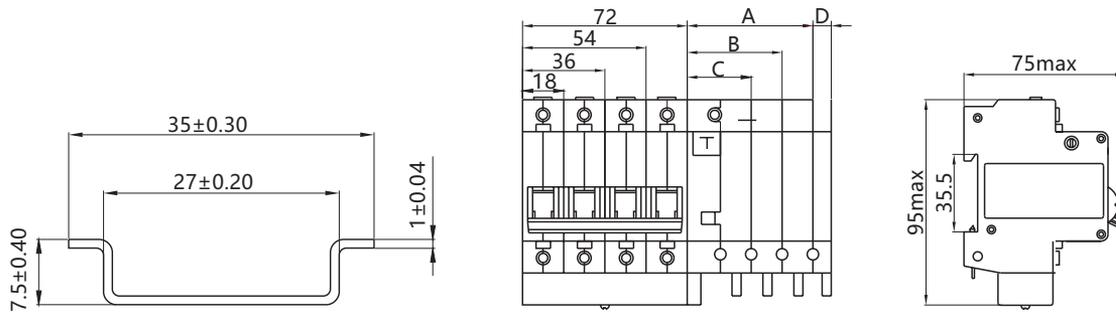
Specification

	Standard	IEC/EN 61009
Electrical features	Thermo-magnetic release characteristic	C, D
	Rated current I _n	6, 10, 16, 20, 25, 32, 40, 50, 63A
	Poles	1P+N, 2P, 3P, 3P+N, 4P
	Rated voltage U _e	230/400V
	Rated sensitivity I _{Δn}	0.03, 0.1, 0.3A
	Rated residual making and breaking capacity I _{Δm}	500A
	Rated short-circuit capacity I _{cn}	4.500/6,000A
	Break time under I _{Δn}	≤0.1s
	Rated frequency	50/60Hz
	Rated impulse withstand voltage U _{imp}	4,000V
	Dielectric TEST voltage at ind. Freq. for 1min	2kV
	Insulation voltage U _i	500
	Pollution degree	2

RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		4,000
	Mechanical life		10,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-5~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm^2	25
	Terminal size top for busbar	mm^2	25
	Tightening torque	$\text{N}\cdot\text{m}$	2
		$\text{In}\cdot\text{lbs}$	18
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top	

Overall and Mounting Dimensions (mm)



	A	B	C	D	1P+N	2P	3P	3P+N	4P
DZ47LE-32	39	30	21	6	18+27	36+27	54+36	54+45	72+45
DZ47LE-63	56	42	28	8	18+36	36+36	54+50	54+64	72+64

RDB5LE-63(RCBO)

Residual Current Circuit Breaker

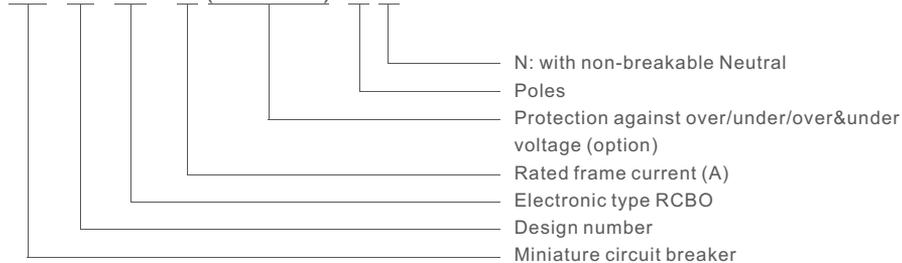


Application

The RDB5LE-63 RCBO is designed to ensure the protection of low-voltage electrical applications up to 63A rated voltage 230/400V, AC 50/60Hz
 Line protection against earthleakage, overload and short-circuits
 Electronic type RCD
 Rated short-circuit breaking capacity $I_{cn} = 6kA$
 With indication window
 Sensitivity range: 30mA, 100mA, 300mA
 Comply with IEC61009/GB16917.1

Model No.

RD B5 LE - 63(G/Q/GQ)/□□



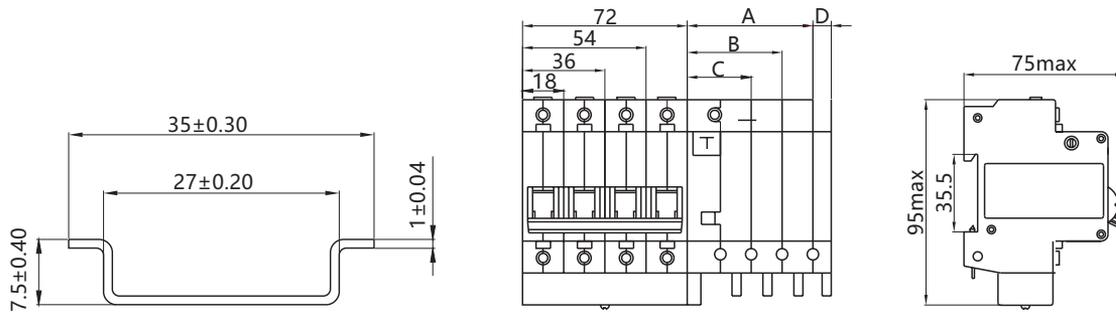
Specification

	Standard	IEC/EN 61009
Electrical features	Thermo-magnetic release characteristic	C, D
	Rated current I_n	6, 10, 16, 20, 25, 32, 40, 50, 63A
	Poles	1P+N, 2P, 3P, 3P+N, 4P
	Rated voltage U_e	230/400V
	Rated sensitivity $I_{\Delta n}$	0.03, 0.1, 0.3A
	Rated residual making and breaking capacity $I_{\Delta m}$	2000A
	Rated short-circuit capacity I_{cn}	6,000A
	Break time under $I_{\Delta n}$	$\leq 0.1s$
	Rated frequency	50/60Hz
	Rated impulse withstand voltage U_{imp}	4,000V
	Dielectric TEST voltage at ind. Freq. for 1min	2kV
	Insulation voltage U_i	600
	Pollution degree	2

RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		4,000
	Mechanical life		10,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-5~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm^2	25
	Terminal size top for busbar	mm^2	25
	Tightening torque	$\text{N}\cdot\text{m}$	2
		$\text{In}\cdot\text{lbs}$	18
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top	

Overall and Mounting Dimensions (mm)



	A	B	C	D	1P+N	2P	3P	3P+N	4P
RDB5LE-63	55	42	28	8	18+36	36+36	54+50	54+63	72+63

RDB67LE-63(RCBO)

Residual Current Circuit Breaker

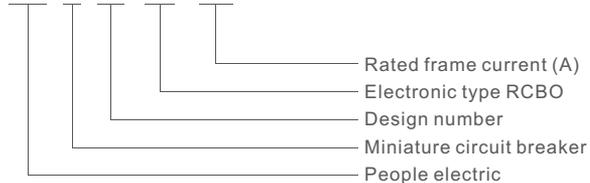


Application

RDB67LE-63 residual current operated circuit breaker can be applied to the circuit of AC50/60Hz, rated voltage 230/400V, rated current up to 63A
 Line protection against earthleakage, overload and short-circuits
 AC or A tripping class
 Electronic type RCD
 Rated short-circuit breaking capacity $I_{cn}=6kA$
 With indication window & power lamp
 Sensitivity range: 30mA, 100mA, 300mA
 Comply with IEC61009-1 / GB16917-1

Model No.

RDB67LE-63



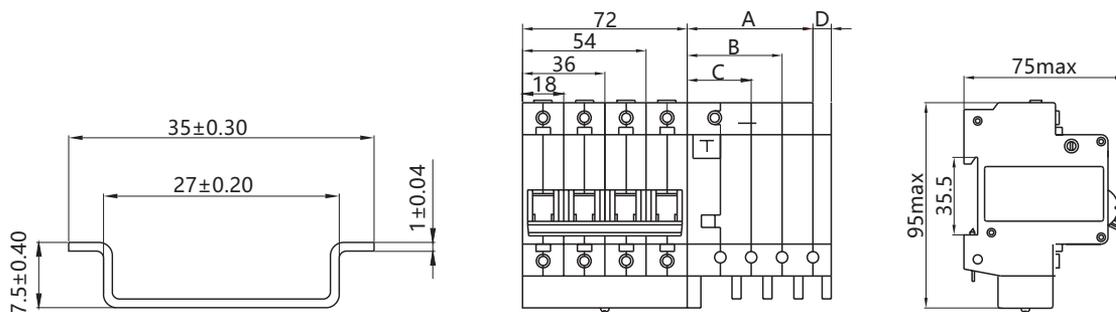
Specification

	Standard	IEC/EN 61009
Electrical features	Thermo-magnetic release characteristic	C, D
	Rated current I_n	6, 10, 16, 20, 25, 32, 40, 50, 63A
	Poles	1P+N, 2P, 3P, 3P+N, 4P
	Rated voltage U_e	230/400V
	Rated sensitivity $I_{\Delta n}$	0.03, 0.1, 0.3A
	Rated residual making and breaking capacity $I_{\Delta m}$	500A
	Rated short-circuit capacity I_{cn}	6,000A
	Break time under $I_{\Delta n}$	$\leq 0.1s$
	Rated frequency	50/60Hz
	Rated impulse withstand voltage U_{imp}	4,000V
	Residual current making & breaking capacity	2000A
	Insulation voltage U_i	500
	Pollution degree	2

RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		6,000
	Mechanical life		20,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-5~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm^2	25
	Terminal size top for busbar	mm^2	25
	Tightening torque	$\text{N}\cdot\text{m}$	2
		$\text{In}\cdot\text{lbs}$	18
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top	

Overall and Mounting Dimensions (mm)



	A	C	1P+N	2P	3P	3P+N	4P
RDB67LE-63	36	54	18+36	36+36	54+50	54+54	72+54

RDX2LE-125(RCBO)

Residual Current Circuit Breaker



Application

The RDX2LE-125 RCBO is designed to ensure the protection of low-voltage electrical applications up to 125A

rated voltage 230/400V, AC 50/60Hz

Line protection against earthleakage, overload and short-circuits

Electronic type RCD

Rated short-circuit breaking capacity $I_{cn}=10kA$

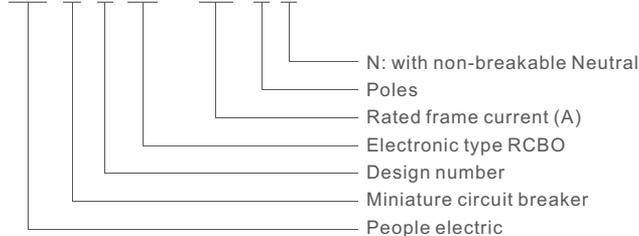
Rated current: 40~125A

Sensitivity range: 30mA, 100mA, 300mA

Comply with IEC61009-1 / GB16917.1

Model No.

RDX2LE-125/□□



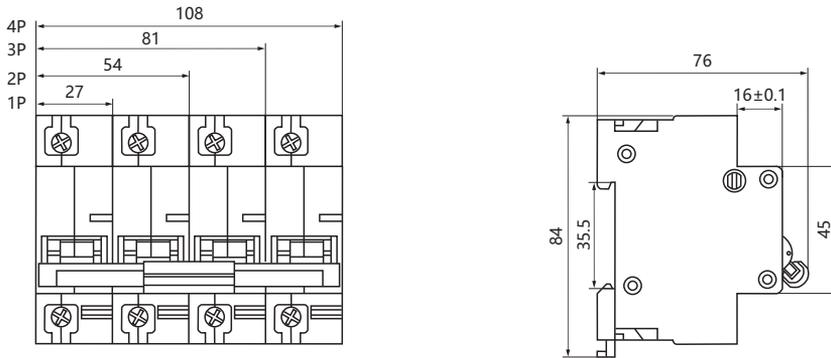
Specification

	Standard	IEC/EN 61009
Electrical features	Certificate	CE
	Thermo-magnetic release characteristic	C, D
	Rated current I_n	40, 50, 63, 80, 100, 125A
	Poles	1P+N, 2P, 3P, 3P+N, 4P
	Rated voltage U_e	230/400V
	Rated sensitivity $I_{\Delta n}$	0.03, 0.1, 0.3A
	Rated residual making and breaking capacity $I_{\Delta m}$	1,500A
	Rated short-circuit capacity I_{cn}	6,000(4~40A); 4500(50,63A)
	Break time under $I_{\Delta n}$	$\leq 0.1s$
	Rated frequency	50/60Hz
	Rated impulse withstand voltage U_{imp}	4,000V
	Dielectric TEST voltage at ind. Freq. for 1min	2kV
	Insulation voltage U_i	600
Pollution degree	2	

RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		6,000
	Mechanical life		20,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-5~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm ²	50
	Terminal size top for busbar	mm ²	50
	Tightening torque	N*m	3.5
		In-lbs	31
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top	

Overall and Mounting Dimensions (mm)



RDX6LE-63(RCBO)

Residual Current Circuit Breaker

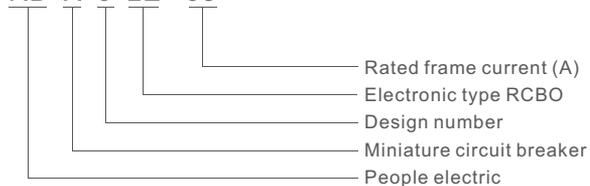


Application

The RDX6LE-63 RCBO is designed to ensure the protection of low-voltage electrical applications up to 63A
 rated voltage 230/400V, AC 50/60Hz
 Line protection against earthleakage, overload and short-circuits
 Electronic type RCD
 Rated short-circuit breaking capacity I_{cn} = 10kA
 With indication window
 Sensitivity range: 30mA, 100mA, 300mA
 Comply with IEC61009/GB16917.1

Model No.

RDX6LE-63



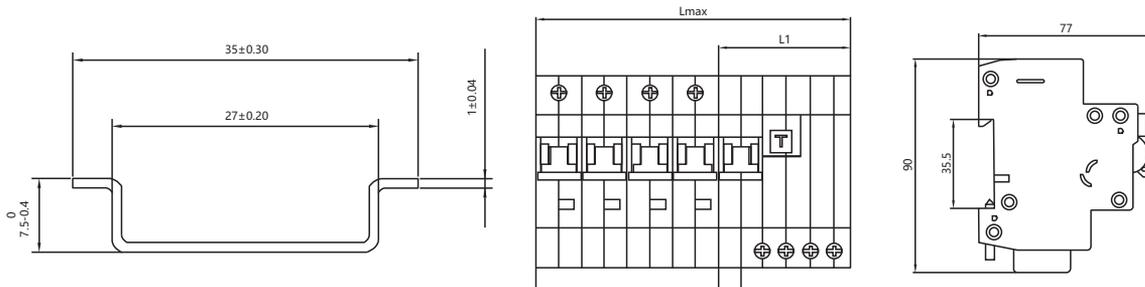
Specification

	Standard	IEC/EN 61009
Electrical features	Thermo-magnetic release characteristic	C, D
	Rated current I_n	6, 10, 16, 20, 25, 32, 40, 50, 63A
	Poles	1P+N,2P,3P,3P+N,4P
	Rated voltage U_e	230/400V
	Rated sensitivity $I_{\Delta n}$	0.03, 0.1, 0.3A
	Rated residual making and breaking capacity $I_{\Delta m}$	2,000A
	Rated short-circuit capacity I_{cn}	10,000
	Break time under $I_{\Delta n}$	$\leq 0.1s$
	Rated frequency	50/60Hz
	Rated impulse withstand voltage U_{imp}	4,000V
	Dielectric TEST voltage at ind. Freq. for 1min	2kV
	Insulation voltage U_i	600
	Pollution degree	2

RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		6,000
	Mechanical life		20,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-5~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm^2	25
	Terminal size top for busbar	mm^2	25
	Tightening torque	$\text{N}\cdot\text{m}$	2
		In-lbs	18
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top	

Overall and Mounting Dimensions (mm)



	1P+N	2P	3P	3P+N	4P
L1	36 ± 0.5	36 ± 0.5	46.5 ± 0.5	60 ± 0.5	60 ± 0.5
Lmax	54	72	102	124	132

RDX30LE-32(RCBO)

Residual Current Circuit Breaker



Application

The RDX30LE-32 RCBO is designed to ensure the protection of low-voltage electrical applications up to 32A

rated voltage 220/230V, AC 50/60Hz

Line protection against earthleakage, overload and short-circuits

DPN-VIGI, Electronic type RCD

Rated short-circuit breaking capacity $I_{cn}=4.5kA$

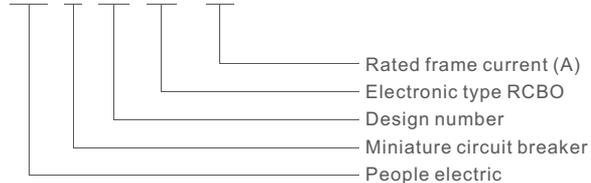
With indication window

Sensitivity range: 30mA

Comply with IEC61009-1 / GB16917.1

Model No.

RDX30LE-32



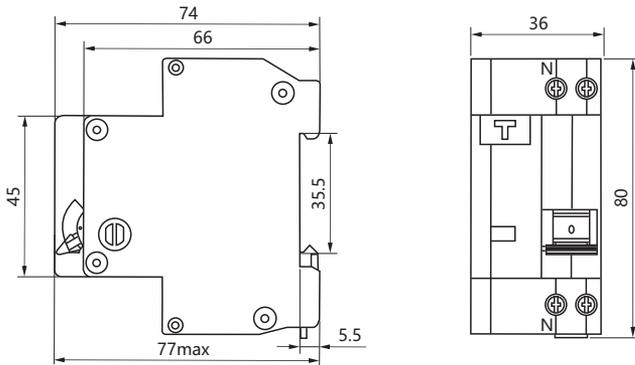
Specification

	Standard	IEC/EN 61009
Electrical features	Thermo-magnetic release characteristic	C, D
	Rated current I_n	4,6, 10, 16, 20, 25, 32A
	Poles	1P+N
	Rated voltage U_e	230/400V
	Rated sensitivity $I_{\Delta n}$	0.03
	Rated residual making and breaking capacity $I_{\Delta m}$	1,500A
	Rated short-circuit capacity I_{cn}	45,000
	Break time under $I_{\Delta n}$	$\leq 0.1s$
	Rated frequency	50/60Hz
	Rated impulse withstand voltage U_{imp}	4,000V
	Dielectric TEST voltage at ind. Freq. for 1min	2kV
	Insulation voltage U_i	600
	Pollution degree	2

RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		4,000
	Mechanical life		6,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-5~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm ²	25
	Terminal size top for busbar	mm ²	25
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top	

Overall and Mounting Dimensions (mm)



RDX65LE-63(RCBO)

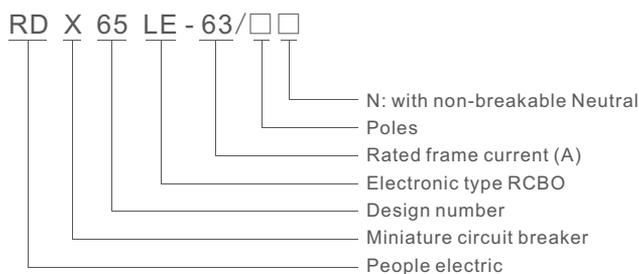
Residual Current Circuit Breaker



Application

The RDX65LE-63 RCBO is designed to ensure the protection of low-voltage electrical applications up to 63A
 rated voltage 230/400V, AC 50/60Hz
 Line protection against earthleakage, overload and short-circuits
 Electronic type RCD
 Rated short-circuit breaking capacity I_{cn} = 6kA(4~40A); I_{cn} =4.5kA(50,63A)
 With indication window
 Sensitivity range: 30mA, 100mA, 300mA
 Comply with IEC61009-1.

Model No.



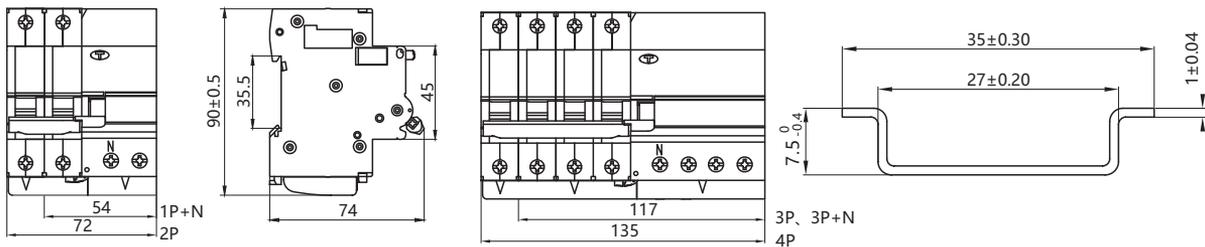
Specification

	Standard	IEC/EN 61009
Electrical features	Thermo-magnetic release characteristic	C, D
	Rated current I_n	4,6,10,16,20,25,32,40,50,63A
	Poles	1P+N,2P,3P,3P+N,4P
	Rated voltage U_e	230/400V
	Rated sensitivity $I_{\Delta n}$	0.03, 0.1, 0.3A
	Rated residual making and breaking capacity $I_{\Delta m}$	500A
	Rated short-circuit capacity I_{cn}	6,000(4~40A); 4500(50,63A)
	Break time under $I_{\Delta n}$	$\leq 0.1s$
	Rated frequency	50/60Hz
	Rated impulse withstand voltage U_{imp}	4,000V
	Residual current making & breaking capacity	2kV
	Insulation voltage U_i	600
	Pollution degree	2

RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		6,000
	Mechanical life		20,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-5~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm^2	25
	Terminal size top for busbar	mm^2	25
	Tightening torque	$\text{N}\cdot\text{m}$	2
		In-lbs	18
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top	

Overall and Mounting Dimensions (mm)



RDL7-100

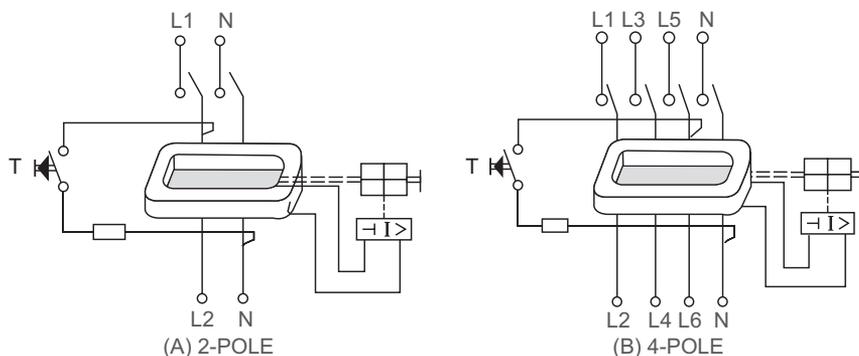
Residual Current Circuit Breaker



Application

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



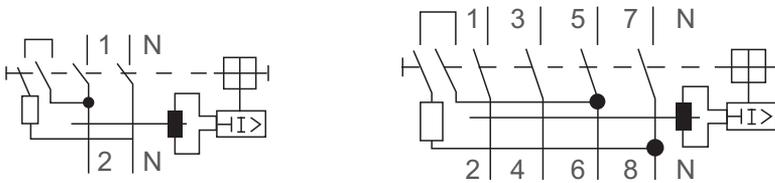
Specification

	Standard	IEC/EN 61008
Electrical features	Mode	Electro-magnetic type, electronic type
	Type(wave form of the earth leakage sensed)	A, AC
	Rated current In	16, 25, 32, 40, 63, 80, 100A
	Poles	2P, 4P
	Rated voltage Ue	AC 230/400V
	Rated sensitivity $I_{\Delta n}$	0.01, 0.03, 0.1, 0.3, 0.5A
	Insulation voltage Ui	500V
	Rated residual making and breaking capacity $I_{\Delta m}$	1000A
	Short-circuit current $I_{\Delta c}$	6000A
	SCPD fuse	6000A
	Rated frequency	50/60Hz
	Pollution degree	2

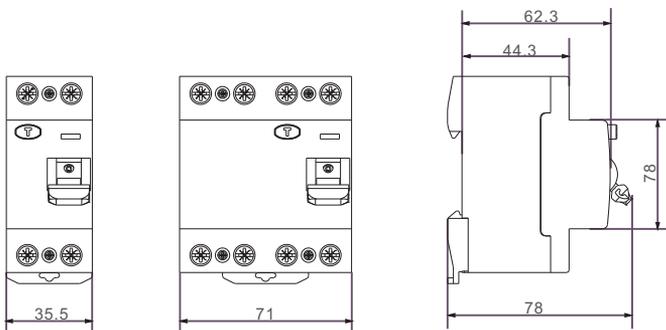
RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		4,000
	Mechanical life		10,000
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-25~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm^2	35
		AWG	18-3
	Terminal size top for busbar	mm^2	35
		AWG	18-3
	Tightening torque	N^*m	2
		In-lbs	18
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection		From top and bottom	

Wiring Diagram



Overall and Mounting Dimensions (mm)



PID-125

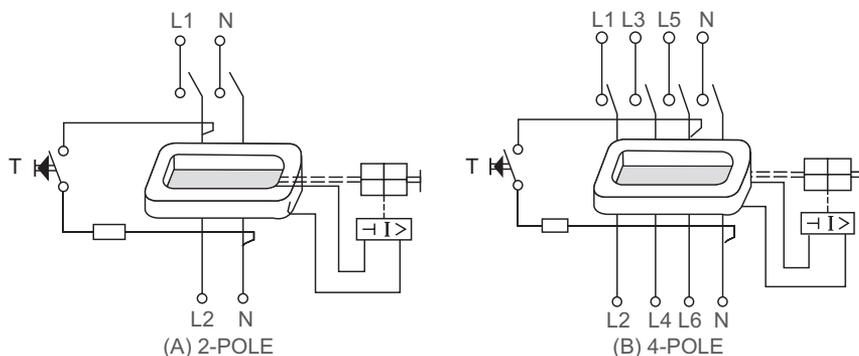
Residual Current Circuit Breaker



Application

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



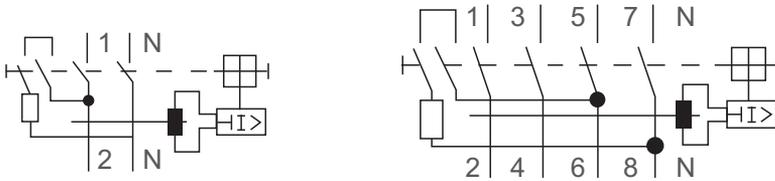
Specification

	Standard	IEC/EN 61008
Electrical features	Mode	Electro-magnetic type, electronic type
	Type(wave form of the earth leakage sensed)	A, AC
	Rated current I_n	16, 25, 32, 40, 63, 80, 100, 125A
	Poles	2P, 4P
	Rated voltage U_e	AC 230/400V
	Rated sensitivity $I_{\Delta n}$	0.01, 0.03, 0.1, 0.3, 0.5A
	Insulation voltage U_i	500V
	Rated residual making and breaking capacity $I_{\Delta m}$	1250A
	Short-circuit current $I_{\Delta c}$	6000A
	SCPD fuse	6000A
	Rated frequency	50/60Hz
	Pollution degree	2

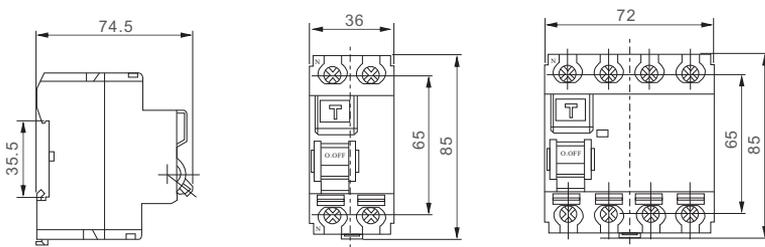
RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		4,000
	Mechanical life		10,000
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-25~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm^2	35
		AWG	18-3
	Terminal size top for busbar	mm^2	35
		AWG	18-3
	Tightening torque	N^*m	2.5
		In-lbs	22
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection		From top and bottom	

Wiring Diagram



Overall and Mounting Dimensions (mm)



PF360

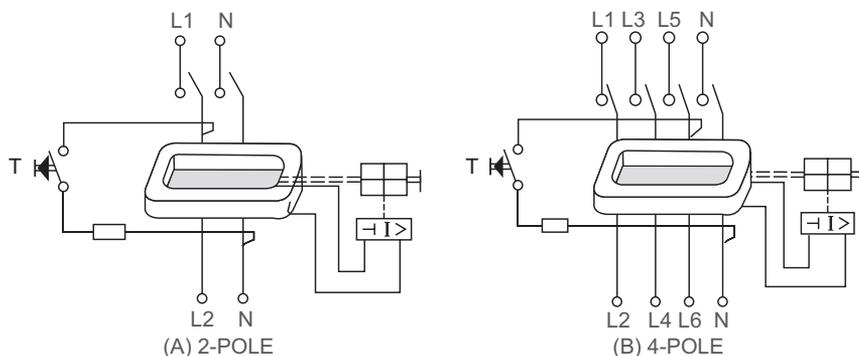
Residual Current Circuit Breaker



Application

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



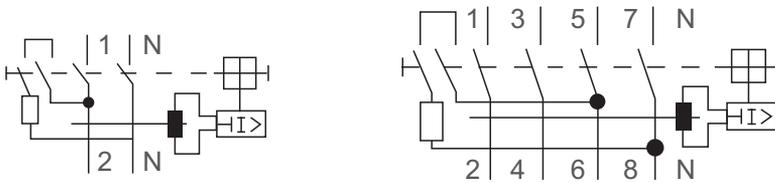
Specification

	Standard	IEC/EN 61008
Electrical features	Mode	Electro-magnetic type, electronic type
	Type(wave form of the earth leakage sensed)	A, AC
	Rated current I_n	16, 25, 32, 40, 63A
	Poles	2P, 4P
	Rated voltage U_e	AC 230/400V
	Rated sensitivity $I_{\Delta n}$	0.01, 0.03, 0.1, 0.3, 0.5A
	Insulation voltage U_i	500V
	Rated residual making and breaking capacity $I_{\Delta m}$	630A
	Short-circuit current $I_{\Delta c}$	6000A
	SCPD fuse	6000A
	Rated frequency	50/60Hz
	Pollution degree	2

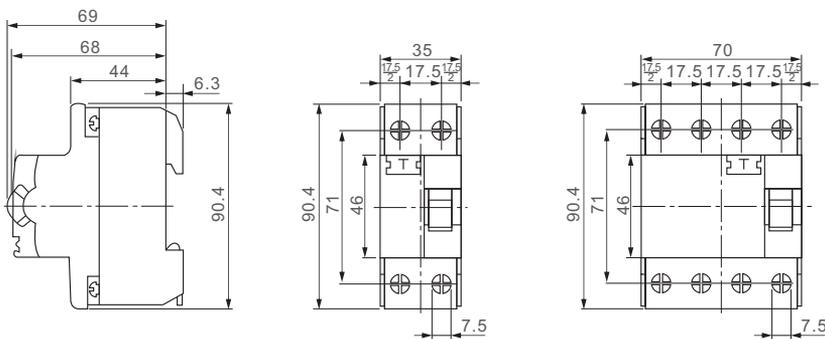
RESIDUAL CURRENT CIRCUIT BREAKER

	Standard		IEC/EN 61009
Mechanical features	Electrical life		4,000
	Mechanical life		10,000
	Protection degree		IP20
	Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-25~+40
	Storage temperature	$^{\circ}\text{C}$	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	mm^2	35
		AWG	18-3
	Terminal size top for busbar	mm^2	35
		AWG	18-3
	Tightening torque	N*m	2.5
		In-lbs	22
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection		From top and bottom	

Wiring Diagram



Overall and Mounting Dimensions (mm)



RDSP6

Surge Protection Device



Application

RDSP6 series surge protection device, is mainly applied to the TN-C, TN-S, TT, IT power system of AC50Hz or 60Hz, nominal discharge current 5kA~60kA, Maximum discharge current 10kA~100kA, Rated operational voltage 220V or 380 to protect the power grid from thunder shock overload and surge overload voltage. It is Widely applied to residential, transportation, electric power, the third industry and the industrial field of surge protection requirements.

Model No.

RD SP 6 - □



Normal working condition and Installation environment

- 3.1 Frequency: AC power frequency from 48Hz to 62Hz.
- 3.2 Voltage: Continuous voltage on the terminal should not exceed the maximum continuous operational voltage
- 3.3 Altitude: should not exceed 2000m
- 3.4 Using and storage Temperature:
 Normal range: -5°C ~ +40°C
 Limit temperature: -40°C ~ +70°C
- 3.5 Humidity: relative humidity should from 30% to 90%. Under the indoor humidity
- 3.6 Installation location without obvious impact and vibration, and the angle between the product and vertical plane should not exceed 5°.

Main Technical Parameter

- 4.1 Surge main technical Parameter see Table1, Table2
- 4.2 Protective class: IP20
- 4.3 This product conforms to standard of IEC61643-1.
- 4.4 Testing type: II class Test.

RESIDUAL CURRENT CIRCUIT BREAKER

Table1

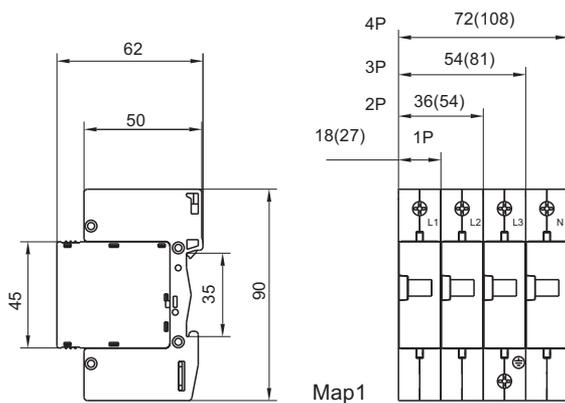
Model No.	Power grid operational voltage Ue(V)	Maximum continous operational voltage Uc(V)	Maximum discharge I _{max} (kA)	Nominal discharge current I _n (kA)	Protection module color	Fuse (A)	Wire diameter		Respond timet(ns)
							Phases,neutral line mm ²	ground line mm ²	
RDSP6-III	220 380	420	10	5	White	10-16	hard line 25-10	two color 25-10	<25
RDSP6-III			20	10					
RDSP6- II			40	20	Yellow	16-20	hard line 4-16	two color 4-16	
RDSP6- II			60	30					
RDSP6- I			80	40	Red	40-63	hard line 6-25	two color 6-25	
RDSP6- I			100	60					
RDSP6- I									

Table2

Production type	Power grid operational voltage Ue	Maximum continous operational voltage Uc	Voltage protection class Up(kV)				Ground system
			I _n =20/10/5kA		I _n =60/40/30kA		
1P	220V	420V	1.8		2.4	2.2	TN-C/IT
2P							TN/TN-S/IT
3P			TN-C/IT				
4P	380V	420V	2.0	1.8	2.4	2.2	TT/TN-S/IT
1P+N	220V	420V					TT/TN-S/IT
2P+N	380V	420V					
3P+N							

Overall and Installation Dimensions:

Overall and installation dimensions, see Fig 1.



RDM1

Moulded Case Circuit Breaker

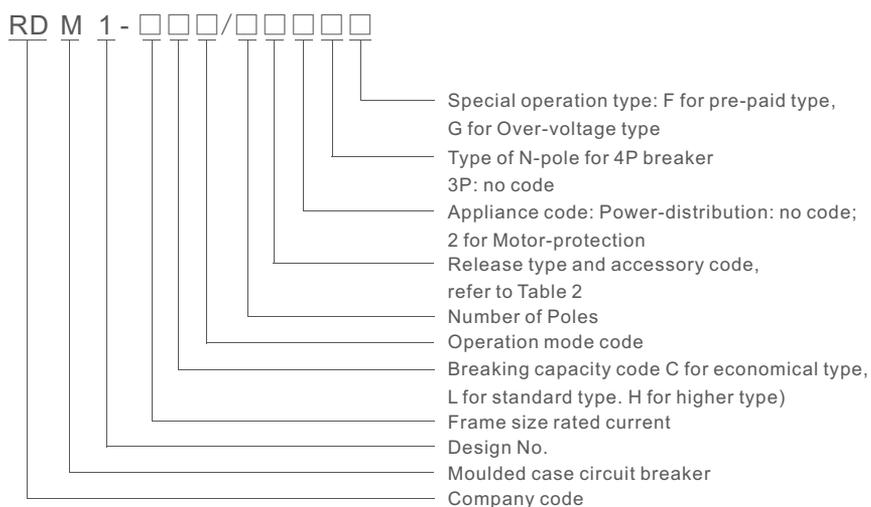


Application

RDM1 series product has small volume, high breaking capacity, short arc, anti vibration advantages, which is the ideal product for land and marine use. Breaker rated insulation voltage 800V (RDM1-63 insulation voltage is 500V), is applied to distribution network of AC 50Hz/ AC60Hz, Rated working voltage up to 690V, rated current up to 1250A to distribute the power and protect the circuit and power source against overload, short-circuit and under-voltage damage, and it also can be used to transfer circuit, motor-start unfrequently and overload, short-circuit and under-voltage protection. The product can be installed vertically and horizontally.

This production is applied to insulation, Sign: 

Model No.



Normal working condition and Installation environment

- 3.1 Temperature: no higher than +40 °C, and no lower than -5 °C ,and the average temperature no higher than +35°C.
- 3.2 Installation location no more than 2000m.
- 3.3 The relative humidity: no more than 50%, when Temperature is +40°C. The product can withstand the higher humidity under lower temperature, for instance, when temperature at +20°C, the product can withstand 90% relative humidity. The condensation that happened because of temperature changes should be taken care in special measurements
- 3.4 Class of pollution : 3 Class
- 3.5 Maximum install inclined Angle : 22.5°
- 3.6 Auxiliary circuit and control circuit installation type : II Class; Main circuit breaker installation type : III Class;
- 3.7 It can stand the normal vibration and operate stably under marine condition.

MOULDED CASE CIRCUIT BREAKER

Table 1 4P with N-pole type.

Code	Structure description(Production without indicated is B type)
A type	N-pole without overload tripping, and N-pole is always connected
B type	N-pole without overload tripping, and connecting, breaking with other poles.

Table 2 Tripping type and accessory code

Accessory code Tripping mode	Accessory name														
	Non	Alarm contact	Shunt release	Auxiliary contact	under voltage release	Shunt release Auxiliary contact	Shunt release + under voltage release	Two sets auxiliary contact	Auxiliary contact + under voltage release	Alarm contact Shunt release	Alarm contact + Auxiliary contact	Alarm contact + under voltage release	Alarm contact + Auxiliary contact + Shunt release	Two sets auxiliary contact + Alarm contact	Alarm contact + under voltage release + Auxiliary contact
Instantaneous release	200	208	210	220	230	240	250	260	270	218	228	238	248	268	278
Double release	300	308	310	320	330	340	350	360	370	318	328	338	348	368	378

Main technical parameter

4.1 Main technical parameter see Table 3

Table 3

Model No.	Frame size rated current Inm A	Rated current In(A)	Rated working voltage Ue(V)	Poles	Rated short-circuit circuit breaker (kA)				Arc distance (mm)
					Icu/cosφ		Ics/cos φ		
					400V	690V	400V	690V	
RDM1-63L	63	(6),10,16,20,25,32,40,50,63	400	3	25	-	12.5	-	≤ 50
RDM1-63M			400	3,4	50	-	25	-	
RDM1-63H			400	3	50	-	25	-	
RDM1-125L	125	(10),16,20,25,32,40,50,63,80,100,125	400	2,3,4	35	-	25	-	≤ 50
RDM1-125M			400/690	2,3,4	50	10	35	5	
RDM1-125H			400/690	3,4	85	20	50	10	
RDM1-250L	250	100,125,160,180,200,225,250	400	2,3,4	35	-	25	-	≤ 50
RDM1-250M			400/690	2,3,4	50	10	35	5	
RDM1-250H			400/690	3,4	85	10	50	5	
RDM1-400C	400	225,250,315,350,400	400	3	50	-	35	-	≤ 100
RDM1-400L			400/690	3,4	50	10	35	5	
RDM1-400M			400/690	3,4	65	10	42	5	
RDM1-400H			400/690	3,4	100	10	65	5	
RDM1-630L	630	400,500,630	400	3,4	50	-	25	-	≤ 100
RDM1-630M			400/690	3,4	65	10	32.5	5	
RDM1-630H			400	3,4	100	-	60	-	
RDM1-800M	800	630,700,800	400/690	3,4	75	20	50	10	≤ 100
RDM1-800H			400	3,4	100	-	65	-	
RDM1-1250M			1250	700,800,1000,1250	400/690	3,4	65	20	

4.2 Overload current release consists of Thermal relay release with inverse time characteristic and Instantaneous release(electmagnetic).

Table 4

Distribution circuit breaker				Motor-protection circuit breaker			
Rated current $I_n(A)$	Thermal relay release		Electromagnetic release operational current(A)	Rated current $I_n(A)$	Thermal relay release		Electromagnetic release operationa current(A)
	1.05 I_n Conventional non tripping time H(cold state)	1.30 I_n Conventional tripping time H(Heat state)			1.0 I_n Conventional non-tripping time H (cold state)	1.2 I_n Conventional tripping time H (heat state)	
$10 \leq I_n \leq 63$	1	1	$10I_n \pm 20\%$	$10 \leq I_n \leq 630$	2	2	$12I_n \pm 20\%$
$63 < I_n \leq 100$	2	2					
$100 < I_n \leq 800$	2	2	$5I_n \pm 20\%, 10I_n \pm 20\%$				

Circuit breaker accessory

5.1 Internal accessory

5.1.1 Shunt release

Connection diagram, see Fig 1 an Fig 2.

Rated voltage of control power supply: AC 50/60Hz, 230V, 400V; DC24V, circuit breaker can operate reliably under 85% to 110% of the rated control power supply voltage.

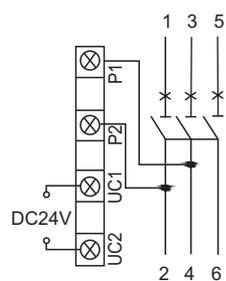
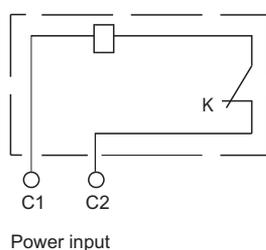


Fig 1 DC 24V connection diagram



Power input

Fig 2 AC 50/60Hz, 230V, 400V connection diagram

5.12 Under-voltage release

When the voltage is below 35% of the rated control power voltage, this release can prevent circuit breaker against closing.

Connection diagram, see Fig 3.

When the voltage decrease to the range of 70% to 35% of rated control power voltage, the under-voltage release would trip.

When the voltage is in the range of 85% to 110% of the rated control power voltage, this release can ensure the circuit closing reliably.

Notice: The circuit breaker with under-voltage release could trip and close, only supplied the circuit breaker with rated voltage.

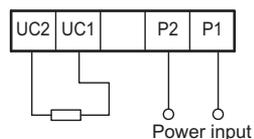


Fig 3 Under-voltage release connection diagram

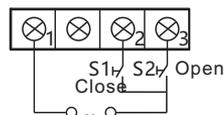


Fig 4 Electri operation mechanism connection diagram

MOULDED CASE CIRCUIT BREAKER

5.13 Auxiliary contact

circuit breaker has two sets contact,each set is not open on electric, the auxiliary contact details, see Table 5.

Circuit breaker "open" position		Frame rated current 400A and above
		Frame rated current 250A and below
Circuit breaker "open" position	"open", contact which is close state turns to open state, contact which is open state turns to close state.	

5.14 Alarm contact

Rated operational voltage's parameter, see Table 5.

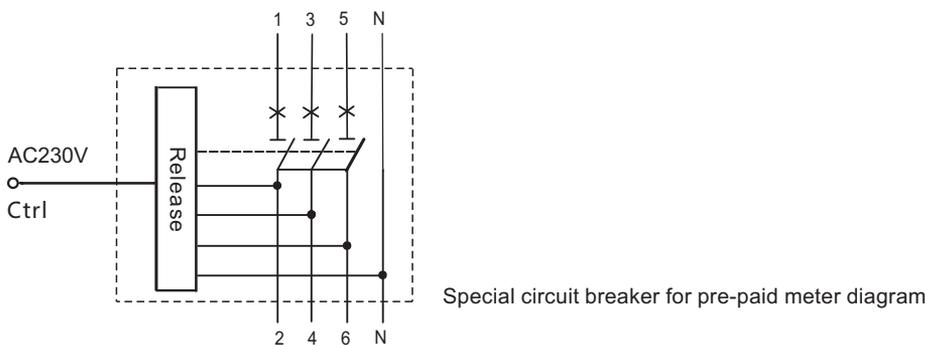
When circuit breaker at "open" and "close" position.	
When circuit breaker at "trip free" alarm position	B11,B12 close state turns to open state B11,B14 open state turns to close state

Table 5.

Type	Frame size rated current	AC-15			DC-13		
		Conventional heating current A	Rated operational voltage V	Rated frequency Hz	Rated current A	Rated operational voltage V	Rated current A
Auxiliary contact	$I_{nm} \leq 250$	3	400	50	0.3	230	0.15
	$I_{nm} \geq 400$	3			0.4		0.15
Alarm contact	$63 \leq I_{nm} \leq 800$	3			0.3		0.15

5.15 Special circuit breaker accessories of Pre-paid meter

Shunt release of Pre-paid Meter rated operational voltage is AC230V 50Hz, Operate in the range of 65% to 110% U_e ,when the Ctrl point is open, circuit breaker will be break after 0.5s to 2s deley. See Diagram:



5.16 Over-voltage circuit breaker

Over-voltage circuit breaker should be tripping under following conditions:

- When the rated operational voltage(phase voltage) U_e lower than 262V
- When the neutral line of three phases and four wires is breaking
- When the neutral line misconnecting phase lines,

5.2 circuit breaker extrnal accessory

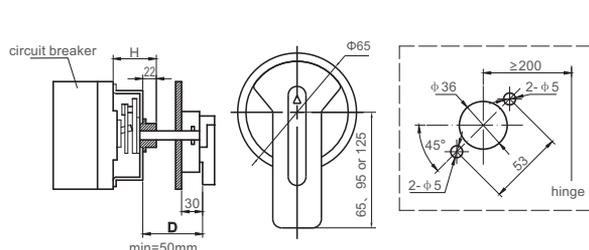
5.2.1 Electric operation mechanism structure see Table 6

Table6

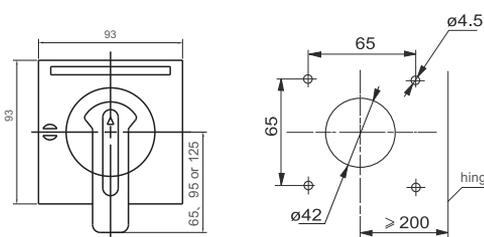
Type	Model	RDM1-63,100,250	RDM1-400,630,800
Structure		Electromagnetic	Motor
Specification		50Hz,230V,400V	

5.2.2 Manual operating mechannism should be installed after drilling the hole according to the diagram.

Rotary handle "OFF" indicated to horizontal position, keep the handle position, and try to operating the handle, the rotation should flexible, and the breaker should be open when the handle at horizontal position; and breaker should be closed when the handle at vertical position.



Round extension rotary handle hole size diagram



Square extension rotary handle hole size diagram

Table7(mm)

Model No.	RDM1-63	RDM1-100	RDM1-250	RDM1-400	RDM1-630	RDM1-800
Installation dimension	50	52	54	97	97	90
Y value of the operating handle relative to the breaker Center	0	0	0	0	0	0

5.2.3 Installation dimension of Mechanical interlock of two circuit breakers, see Table 6 Fig 6 and Table 8.

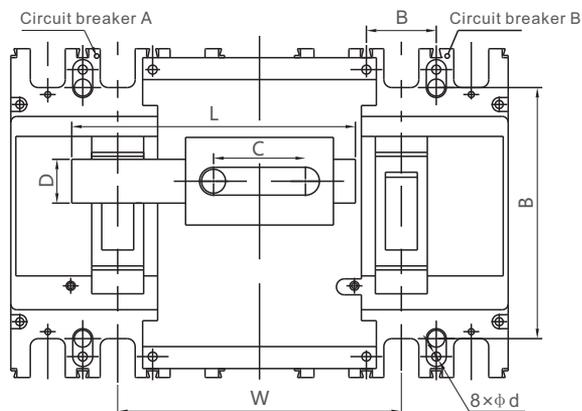


Fig 6 Mechanical interlock dimension diagram

MOULDED CASE CIRCUIT BREAKER

Table8(mm)

Model No.	A	B	W	C	L	A	φd
RDM1-63	25	117	105	35	22	117	3.5
RDM1-125	30	129	120	46	22	140	4.5
RDM1-250	35	126	138	46	22	132	5.5
RDM1-400L,M,H	44	194	178.5	56	28	188	7
RDM1-800	44	215	176	56	28	188	5.5
RDM1-630	58	200	230	56	28	240	7
RDM1-400C	70	243	250	56	28	252	5.5

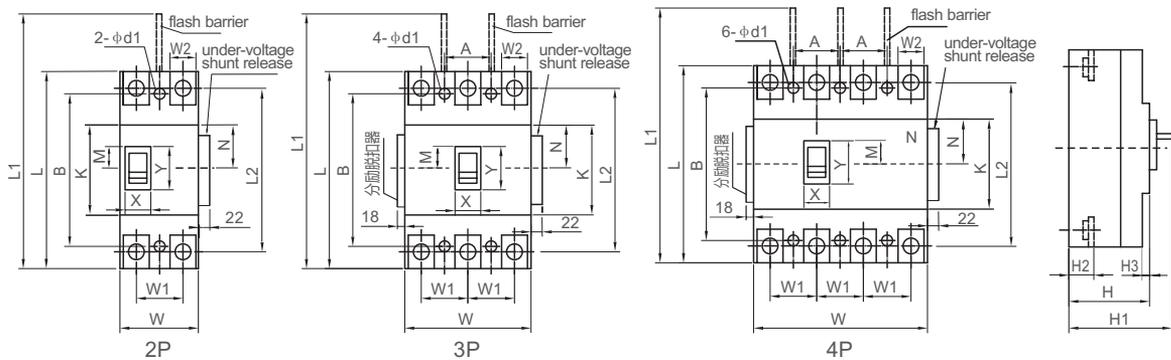


Fig 7 RDM1-63~800 Front connection overall and installation dimension

Table9

Model No.	Front connection overall																	Installation dimension				
	W		L	H	H1	H2	H3	W1	L1	L2	W2	K	N	M		X		Y		A	B	φd
	3P	4P												3P	4P	3P	4P	3P	4P			
RDM1-63L	76	-	135	73	90.5	20	6.5	25	170	117	14	86.5	42.5	35	-	25	-	69	-	25	117	4
RDM1-63M RDM1-63H	76	102	135	82	98.5	28	6.5	25	170	117	14	86.5	41.5	35	26.5	25	23	69	49	25	117	4
RDM1-125L	92	122	150	68	86	24	7.5	30	200	132	17	89	43	32	27	27	23	67	51	30	129	4
RDM1-125M RDM1-125H	92	122	150	86	104	24	7.5	30	200	132	17	89	43	32	27	27	23	67	51	30	129	4
RDM1-250L	107	142	165	86	110	24	6	35	230	144	24	98	51	39	27	27	23	80	54	35	126	5
RDM1-250M RDM1-250H	107	142	165	103	127	24	6	35	230	144	24	102	51	39	27	27	23	80	54	35	126	5
RDM1-400C	140	-	257	100	146	36.5	7.5	44	361.5	225	-	128	50.5	20	-	53	-	90	-	44	215	6.5
RDM1-400L	150	198	257	107	155	38	5	48	357	224	31	128	64.5	48	48	66	66	90	90	44	194	7
RDM1-400M RDM1-400H	150	198	257	107	155	38	5	48	357	224	31	128	64.5	48	48	66	66	90	90	44	194	7
RDM1-630L	182	240	270	112	160	45	3.5	58	370	234	41	135	67.5	45	45	66	66	90	90	58	200	7
RDM1-630M RDM1-630H	182	240	270	114	160	43	3.5	58	370	234	41	138	69	45	42.5	69	67	96	90	58	200	7
RDM1-800M RDM1-800H	210	280	280	117	160	42	5	70	380	243	44	136	65.5	48	48	67	67	82	82	70	243	7.5

6.2 Back connection overall dimension, see Fig 8 and Table 10.



Fig 8 RDM1-63~800 Back connection overall and installation dimension

6.3 Back connection installation open hole dimension, see Table 9

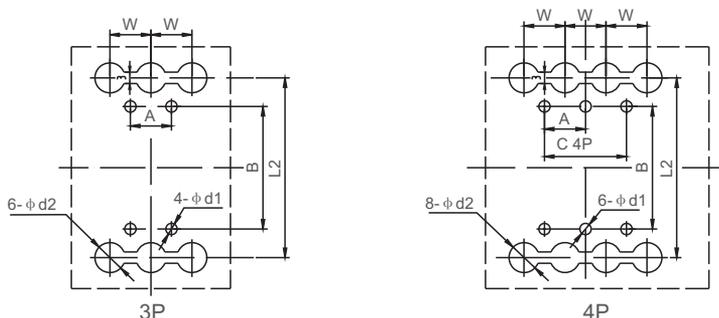


Table 9 RDM1 back connection open hole dimension

Table10

Model No.	Dimension code.									
	H3	H4	D	W	L2	φd2	A	B	C	φd1
RDM1-63	28	46	M5	25	117	8	25	117	50	5.5
RDM1-125	64	100	M8	30	132	24	30	129	60	5.5
RDM1-250	70	100	M10	35	144	26	35	126	70	5.5
RDM1-400	71	105.5	φ12	48	224	32	44	194	94	7
RDM1-400C	71	105.5	φ12	44	225	32	44	215	-	8.5
RDM1-630	46	105	φ16	58	234	37	58	200	116	7
RDM1-800	105	105	φ16	70	243	48	70	243	70	7.5

6.4 RDM1 Insert type's overall and installation open hole dimension, see Fig 10, Fig 11 and Table 11

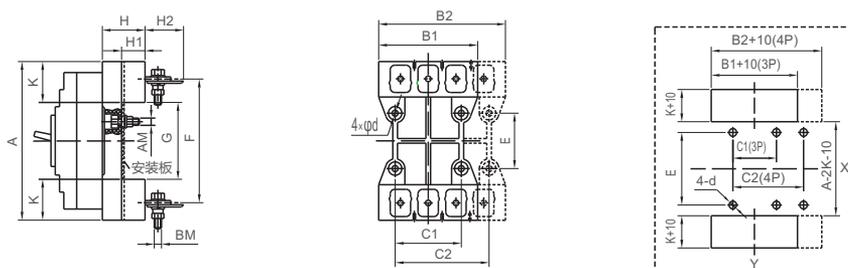


Fig RDM1 Insert type overall and installation open hole diagram

MOULDED CASE CIRCUIT BREAKER

Table11

Model No.	Dimension code.														
	A	B1	B2	C1	C2	E	F	G	K	H	H1	H2	AM	BM	4-d
RDM1-63	135	75	100	50	75	60	117	100	17.5	27.5	18	16	M5	M5	φ5.5
RDM1-125	168	91	125	60	90	56	132	92	38	50	33	28	M6	M8	φ6.5
RDM1-250	186	107	145	70	105	54	145	94	46	50	33	37	M6	M8	φ6.5
RDM1-400	280	149	200	60	108	129	224	170	55	60	38	46	M8	M12	φ8.5
RDM1-630	280	144	-	88	-	143	224	180	50	60	38	48	M8	M12	φ9
RDM1-800	300	182	242	100	158	123	234	170	65	60	39	50	M8	M12	φ8.5
RDM1-400C	305	210	280	90	162	146	242	181	62	87	60	22	M10	M14	φ11

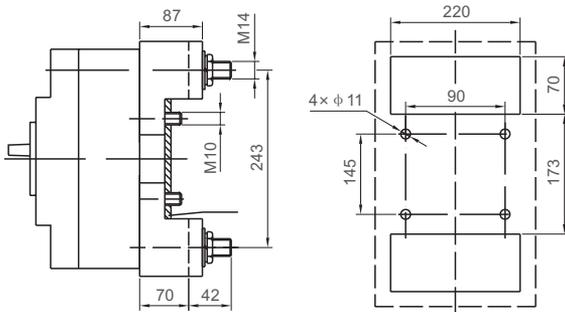


Fig 11 RDM1-800 3P Insert type overall and installation open hole diagram

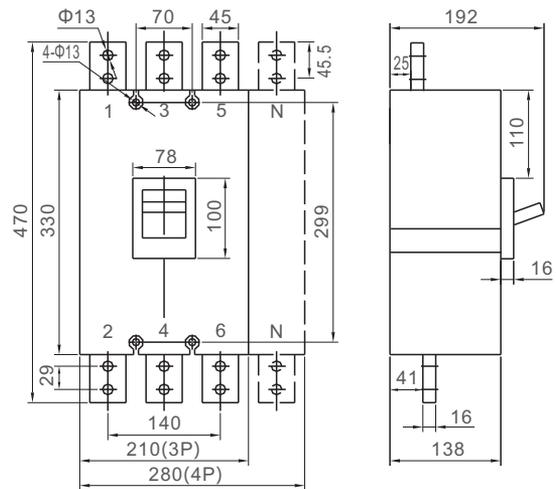


Fig 12 RDM1-125M circuit breaker overall and installation dimension

6.5 RDM1 circuit breaker's height after installing motop operating mechanism, see Table 12.

Table12

Model No.	RDM1-63L	RDM1-63M RDM1-63H	RDM1-100L	RDM1-100M RDM1-100H	RDM1-250L	RDM1-250M RDM1-250H
Height						
AC	155	164	152	170	182	199
DC	160	171	153	171	177	194

Model No.	RDM1-400C	RDM1-400L, M, H	RDM1-630L	RDM1-630M RDM1-630H	RDM1-800M RDM1-800H
Height					
AC	227	238	246	246	247
DC	160	255	262	262	261

RDM11

Moulded Case Circuit Breaker



Application

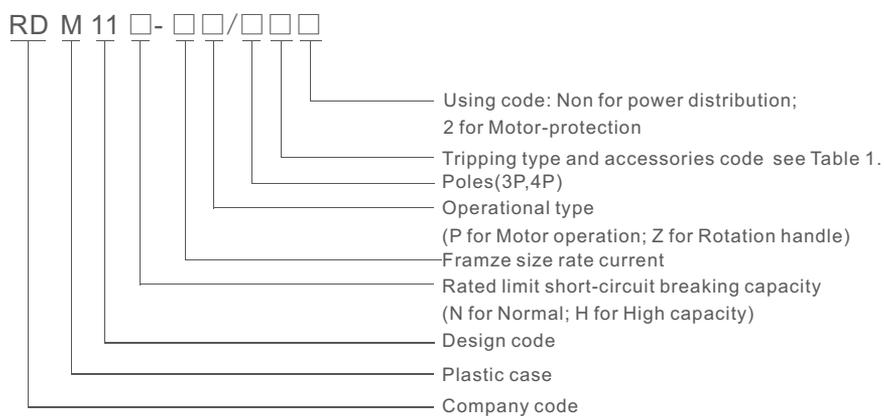
RDM11 series Moulded Case circuit breaker, mainly applied to the circuit of AC50Hz, rated insulation voltage 750V, rated operating voltage 690V or below, rated current up to 630A. In the regular situation, this production is used for transiting the circuit and starting the motor unfrequently, And it has the function of overload, short-circuit and under-voltage protection.

This production is applied to isolation, the symbol is " — / I-X ".

This production confirmed to standard of IEC60947-2 and GB14048.2-2008.

Model No.

RD M 11 □ - □ / □ □ □ □



Normal working condition and Installation environment

3.1 Temperature: not exceed +40C, and the day average value not exceed +35°C, not below -5°C.

3.2 Altitude: not exceed 2000m.

3.3.Humidity: the relative humidity shall not exceed 50% when it at +40C. And it has the lower temperature, the higher humidity is accepted,Like 90% humidity is accepted when the temperature is +20C. And the special measurement should be taken for condensation caused by temperature change.

3.4 Pollution calss: 3 class.

3.5 Installation type: III type. The vertical install and horizontal installation.

MOULDED CASE CIRCUIT BREAKER

Main technical parameter

4.1 Main specification and technical, see Table 1

Table1

Tripping type	Accessory name													
	No accessories	Alarm contact	Shunt release	Shunt release + Alarm contact	One group of auxiliary contact	Alarm contact + Auxiliary contact	Under-voltage release	Under-voltage release + Alarm contact	Shunt release + Auxiliary contact	Shunt release + Auxiliary contact + Alarm release	groups Two of Auxiliary contact	Two groups of Auxiliary contact + Alarm contact	Under-voltage release + Auxiliary contact	Under-voltage release Auxiliary contact + Alarm contact
	Accessory code													
Instantaneous release	200	208	210	218	220	228	230	238	240	248	260	268	270	278
Double type release (Thermal release + Magnetic release)	300	308	310	318	320	328	330	338	340	348	360	368	370	378
Intelligent type release	400	408	410	418	420	428	430	438	440	448	460	468	470	478

Notice: RDM11-100, 160, 250 has thermal electromagnetic release + Intelligent release; RDM11-400, 630 only has Intelligent release

4.2 Main parameter and main performance index, see Table 2

Table2

Item	Model No.									
	RDM11-100		RDM11-160		RDM11-250		RDM11-400		RDM11-630	
	N	H	N	H	N	H	N	H	N	H
Frame size rated current A	100		160		250		400		630	
Poles	3,4									
Release rated current A	16,(20),25,(32) 40,50,63,80,100		63,80,100,125,160		100,125,160,200 250		160,200,250,400		250,400,500,630	
Rated insulation voltage V	750									
Rated limited short-circuit breaking capacity kA	25	50	35	50	35	50	35	50	35	50
Rated operating short-circuit breaking capacity kA	16	35	18	35	18	35	25	35	25	35
Mass kg	3P		1.6		1.9		6.0			
	4P		2.1		2.3		7.8			
Arc distance mm	≤35						≤60			

4.3 Operational service life

Table3

Model No.		RDM11-100	RDM11-160	RDM11-250	RDM11-400	RDM11-630
Frame size rated current A		100	160	250	400	630
Service life (C-O) times	Total	10000	8000		5000	
	No load	8500	7000		4000	
	load	1500	1000		1000	

4.4 Thermal electromagnetic release operating performance, see Table 4

Table4

Model No.	Setting current multiple	Conventional time H			Initial state
		$I_n \leq 63$	$63 < I_n \leq 250$	$250 < I_n$	
Conventional not tripping current	1.05	≥ 1	≥ 2		Cold state
Conventional tripping current	1.30	< 1	< 2		Heat state
Return characteristic current	3.0	Return time s			Cold state
		5s	8s	12s	

Notice: Heat state means it charged the conventional not tripping current to the specified conventional time state.

4.5 Motor-protection circuit breaker Inverse time limit breaking characteristic, see Table 5

Table5

Testing current name	Setting current multiple	Conventional time H	Initial state
Conventional not tripping current	1.0	$< 2h$	Cold state
Conventional tripping current	1.2	$\geq 2h$	Heat state
	1.5	2min-4min	Heat state
	7.2	$2s < TP \leq 10s$	Cold state

Notice: Tp for delay time

4.6 3P overload release charge 2 poles 's breaking characteristic, see Table 6.

Table6

Testing current name	Setting current multiple	Conventional time H	Initial state
Conventional not tripping current	3P charged 1.0	$\geq 2h$	Cold state
Conventional tripping current	2P charged 1.25	$< 2h$	Heat state

4.7 Power distribution circuit breaker short-circuit protection setting current, see Table 7

Table7

Model No.	Release setting current In A										Accuracy
	16	25	40	63	80	100	125	160	200	250	
	Short-circuit protection setting current										
RDM11-100	190	300	500	630	800	1000	-	-	-	-	$\pm 20\%$
RDM11-160	-	-	-	-	800	1000	1250	1600			
RDM11-250	-	-	-	-	-	1000	1250	1600	(5-10)In		

4.8 Motor-protection circuit breaker short-circuit protection setting current, see Table 8

Table8

Model No.	Release setting current In A										Accuracy
	16	25	40	63	80	100	125	160	200	250	
	Short-circuit protection setting current										
RDM11-100							15In				$\pm 15\%$
RDM11-160											
RDM11-250											

4.9 Circuit breaker rated current setting measurement, see Fig 1

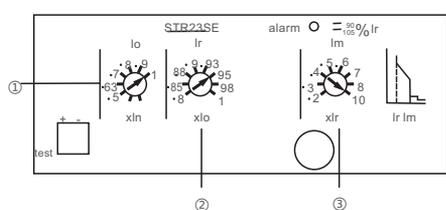


Fig 1

MOULDED CASE CIRCUIT BREAKER

Rated current setting, see Table 9 ~ Table 10

400A

Table 9

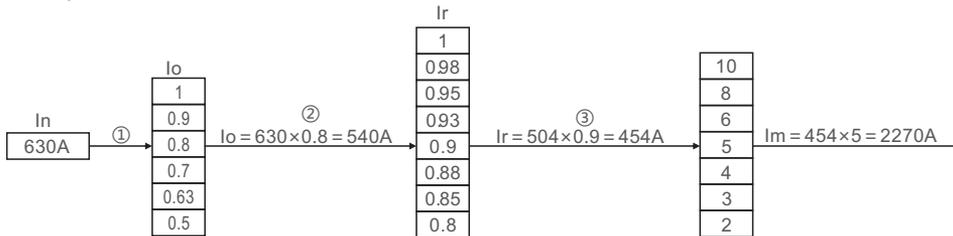
I _o \ I _r	I _r							
	1	0.98	0.95	0.93	0.9	0.88	0.85	0.8
1	400	392	380	372	360	352	340	320
0.9	360	353	342	335	324	317	306	288
0.8	320	314	304	298	288	282	272	256
0.7	280	274	266	260	252	246	238	224
0.63	252	247	239	234	227	222	214	202
0.5	200	196	190	186	180	176	170	160

630A

Table 10

I _o \ I _r	I _r								
	1	0.98	0.95	0.93	0.9	0.88	0.85	0.8	
1	630	617	598	585	567	554	535	504	
0.9	567	556	539	527	510	499	482	454	
0.8	504	494	478	468	454	443	428	403	
0.7	441	432	419	410	397	388	375	353	
0.63	397	389	377	369	357	349	337	317	
0.5	315	308	299	292	283	277	267	252	

Example:



Overall and installation dimensions

See Fig 2 and Table 11

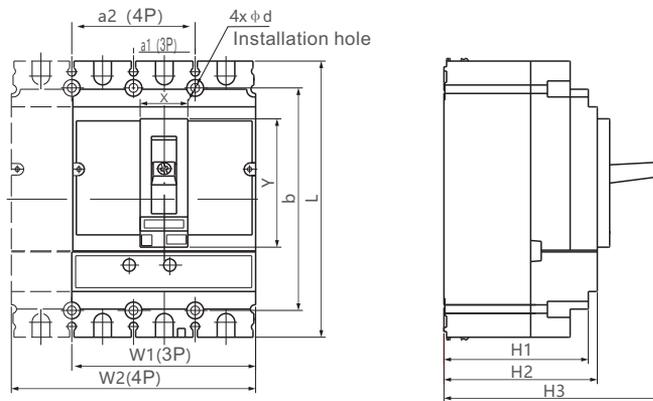


Table 11

Model No.	Overall dimension (mm)								Installation dimension (mm)				
	W1	W2	L	H1	H2	H3	X	Y	a1	a2	b	ϕd	ϕd
RDM11-100	105	140	160	82	87	111	27	73	35	70	126	6	M6×20
RDM11-160						126							M8×20
RDM11-250						126							M8×20
RDM11-400	140	185	255	105	110	168	60	114	45	90	200	6	M10×30
RDM11-630													

RDM1E

Electronic Moulded Case Circuit Breaker



Application

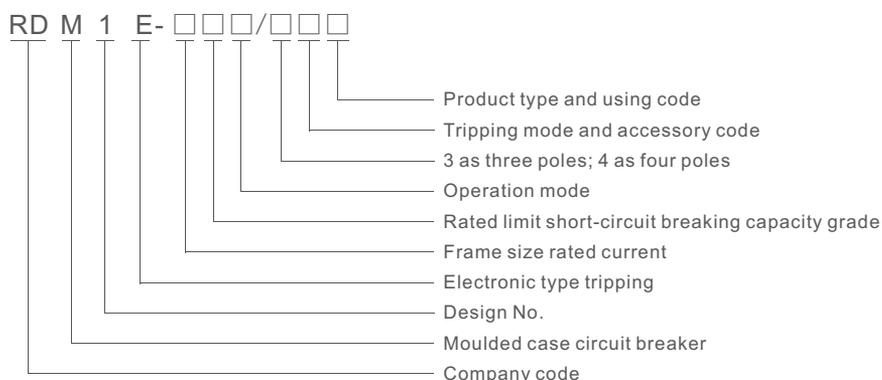
RDM1E series RDM1E series electronic Moulded case circuit breaker is a new designed MCCB developed and manufactured by adopting international advanced technology. Its rated insulation voltage is 800V, is applied to the circuit of AC 50HZ, rated working voltage 400V, rated current up to 1250A as infrequently switch and starting of motor. MCCB has the functions of overload long delay inverse time limit, short-circuit short delay inverse time limit, short-circuit short delay definite time limit, short-circuit instantaneous and under-voltage protection, to protect the circuit and power equipment against being damage.

MCCB has the characteristics of small volume, high breaking capacity, short arcing distance, and anti-vibration.

MCCB cannot be inverted wiring, only can be 1, 3, 5 connect to the power line, 2, 4, 6 connect to the load line.

MCCB has the isolation function, its symbol is: " — | — " (Note: The symbol in the image is a line with a diagonal slash and a crossbar, representing an isolating switch).

Model No.



Standards

- GB 14048.1-2006 Low voltage switchgear and control equipment Part 1: General Rule
- GB 14048.2-2008 Low voltage switchgear and control equipment Part 2: Circuit Breaker
- GB 14048.4-2010 Low voltage switchgear and control equipment Part 4-1: Contactor and Motor starter
- GB 14048.5-2008 Low voltage switchgear and control equipment Part 5-1: Control electric appliance and components

Normal working condition and Installation environment

1. Altitude of installation location no more than 2000m
2. Temperature: not higher than +40°C, and no lower than -5°C, and the average temperature within 24h no higher than +35°C
3. The relative humidity: no more than 50%, when temperature is +40°C. The product can allow the higher humidity under lower temperature, for instance, when the humidity reaches to 90% when it is at +20°C.
4. Class of pollution: class 3
5. Installation type of circuit breaker's main circuit: class III, installation type of auxiliary circuit and control circuit: class II.
6. Using category: A or B.

MOULDED CASE CIRCUIT BREAKER

Main Technical Specification

Model	RDM1E-100		RDM1E-225		RDM1E-400		RDM1E-800		RDM1E-1250
Frame current $I_{nm}(A)$	100		225		400		800		1250
Breaking capacity class	M	H	M	H	M	H	M	H	M
Rated current $I_n(A)$					400		630、800		800、1000、1250
Pole	3、4	3	3、4	3	3、4	3	3、4	3	3
Rated voltage $U_e(V)$	AC400								
Rated insulated voltage $U_i(V)$	800								
	8000								
Rated limited short-circuit breaking capacity $I_{cu}(kA)$	50	85	50	85	65	100	65	100	80
Rated working short-circuit breaking capacity $I_{cs}(kA)$	25	45	25	50	32.5	55	42	60	50
Rated short time withstand current $I_{cw} 0.5S(kA)$	--		--		5		10		15/1s
Using category	A		A		B		B		B
Arc distance(mm)	≤50		≤50		≤100		≤100		≤100
Operation performance	Power on(Times)		1000		1000		500		500
	Power off(Times)		7000		4000		3000		3000
Front plate wiring	○		○		○		○		○
Back plate wiring	○		○		○		○		
Plug-in wiring	○		○		○		○		
Drawer wiring					○		○		○
Under voltage release	○		○		○		○		○
Shunt release	○		○		○		○		○
Auxiliary contact	○		○		○		○		○
Alarm contact	○		○		○		○		○
Motor operation mechanism	○		○		○		○		○
Manual operation mechanism	○		○		○		○		○
Hand test device	○		○		○		○		
Intelligent control module	○		○		○		○		○
Test power module	○		○		○		○		○
LCD display module	○		○		○		○		○

Release characteristic

1. Electronic release characteristic

Breaker is installed current sensor with effective value sampling . MCCB is with the functions of overload long delay inverse time, short-circuit short delay inverse time, short-circuit short delay definite time, short-circuit instantaneous action and so on, the user can set the protection characteristic they need.

Release characteristic as picture 1

2. Overload long delay inverse time protection action characteristic as form 3

3. Short-circuit short delay protection action characteristic as form 4

4. short-circuit instantaneous protection action characteristic as form 5

form 3

Current		Action time (S)					
Distribution Type	1.05IR	>2h no tripping					
	1.3IR	≤1h tripping					
	2IR	Action time T_R	12	60	80	100	150
		Setting time t_R	12	60	80	100	150
Motor protection Type	1.05IR	>2h no tripping					
	1.2IR	≤1h tripping					
	1.5IR	Action time T_R	21.3	107	142	178	267
	2 IR	Setting time t_R	12	60	80	100	150
	7.2 IR	Action time T_R	0.93	4.63	6.17	7.72	11.6
	Release class	/	10A	10	20	30	

form 4

short delay action characteristic		Current I_{sd}	Action time(S)				
		≤0.9 I_{sd}	No tripping				
		≥1.1 I_{sd}	tripping				
short delay protection	inverse time protection	$I_{sd} \leq I < 1.5 I_{sd}$	$I^2 T_R = (1.5 I_{sd})^2 t_{5d}$				
	definite time protection	1.5 $I_{sd} \leq I < I_i$	Setting time $t_{sd}(s)$	0.06	0.1	0.2	0.3
			Error(s)	±0.02	±0.03	±0.04	±0.06
			Back time(s)	/	/	0.14	0.21
Accuracy	Inverse time action time						

form 5

Action characteristic		Current	Action time(S)
		≤0.85 I_i	No tripping
		≥1.15 I_i	Tripping

form 6

Classify	Frame rated current $I_{nm}(A)$	Conventional thermal current $I_{th}(A)$	Rated working current	
			AC400V	DC220V
Auxiliary contact	$I_{nm} \leq 400$	3	0.3	0.15
	$I_{nm} \geq 400$	3	0.4	0.15
Alarm contact	$100 \leq I_{nm} \leq 800$	3	0.3	0.15

Rated control power voltage (U_s) and rated operating voltage (U_e) of control circuit release and the motor mechanism to see form 7

form 7

Type		Rated voltage(V)		
		AC 50HZ		DC
Release	Shunt release	U_s	220 380	110 220
	Under voltage release	U_e	220 380	- -
Motor mechanism		U_s	220 380	110 220

MOULDED CASE CIRCUIT BREAKER

Release unit technical parameter

1. It should reliably break the circuit breaker, when the applied voltage of shunt release is between 70% and 100% of the rated control power voltage.
2. The under-voltage release can reliably break the circuit breaker when the power voltage reduces to the 70%~35% of the under-voltage's rated operating voltage; The under-voltage release can prevent the circuit breaker close when the power voltage is lower than 35% of the under-voltage's rated operating voltage; The under-voltage release can ensure the circuit breaker can reliably close when the power voltage is higher than 85% of the under-voltage's rated operating voltage.
3. When the motor mechanism is at rated frequency, and the power voltage is between 85%~110%, the circuit breaker can be reliably closed.

The power consumption and derating coefficient

1. power consumption as form 8
2. derating coefficient of environment temperature as form 9

form 8

Model	Current (A)	Three phase total power consumption (VA)	
		Front/back plate wiring	Plug-in wiring
RDM1E-125	100	35	40
RDM1E-250	225	62	70
RDM1E-400	400	115	125
RDM1E-800	800	262	294

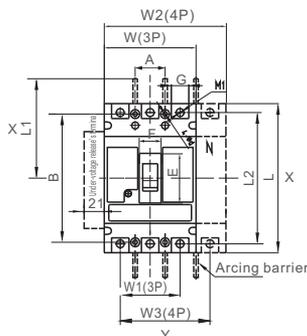
form 9

Model	+40°C	+45°C	+50°C	+55°C	+60°C
RDM1E-125	1In	0.95In	0.89In	0.84In	0.76In
RDM1E-250	1In	0.96In	0.91In	0.87In	0.75In
RDM1E-400	1In	0.94In	0.87In	0.81In	0.74In
RDM1E-800	1In	0.88In	0.83In	0.79In	0.72In

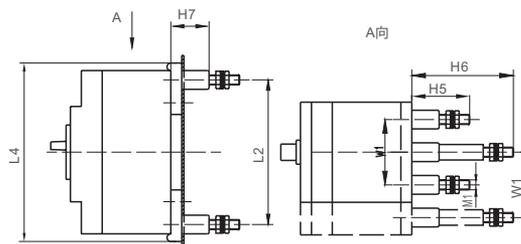
Appearance and installation dimension

Appearance dimension as picture2, picture3, picture4, picture5, picture6 and form 10

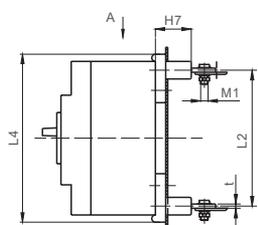
- (1) Front plate wiring appearance dimension as pictures2 (X-X, Y-Y is the center of 3P circuit breaker)
- (2) Back plate wiring appearance dimension as pictures 3, pictures 4
- (3) Plug-in front plate wiring appearance dimension as pictures 5
- (4) Plug-in front back wiring appearance dimension as pictures 6



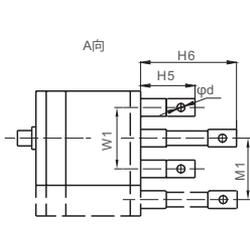
Picture2 fixed front wiring



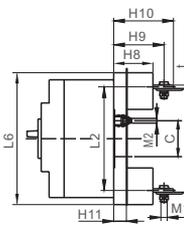
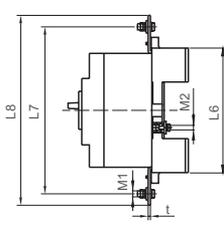
Picture3 RDM1E-125, 250 fixed back wiring



Picture4 RDM1E-400,800 fixed back wiring



Picture5 Plug-in front wiring



Picture6 Plug-in back

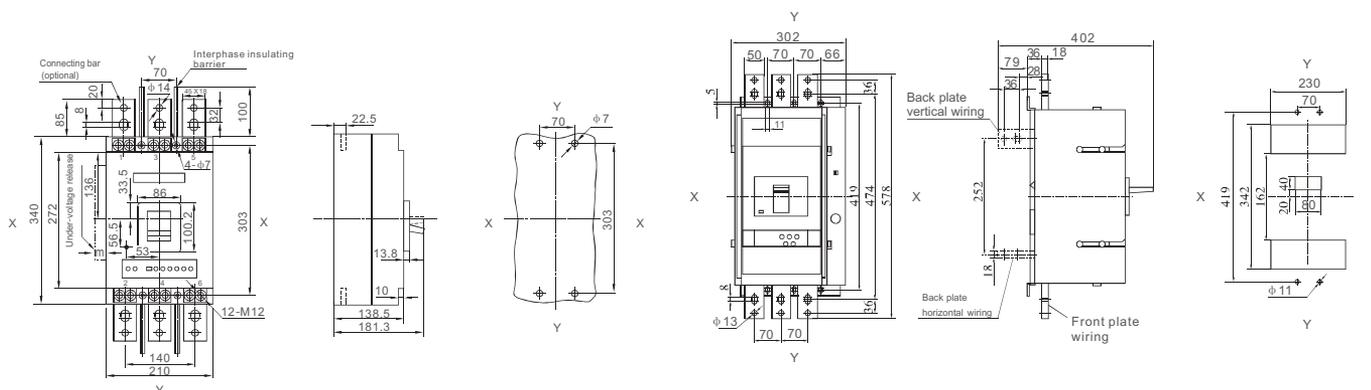
form 10

Model	Front plate wiring															
	W	W1	L	L1	L2	H	H1	H2	H3	H4	E	F	G	W2	W3	M1
RDM1E-125	92	60	150	100	132	93	112	29	12	4	55	25	18	122	90	M8
RDM1E-250	107	70	165	132	144	90	110	24	5	4	65	25	22	142	105	M8
RDM1E-400	150	96	257	220	244	107	147	38	9.5	6.5	92	68	30	198	144	M10
RDM1E-800	210	140	280	240	243	116	155	46	15	5	83	680	44	280	210	M12

form 11

Model	Back plate wiring								Plug-in wiring							
	L4	H5	H6	H7	M1	d	t	L6	H8	H9	H10	H11	M1	M2	L7	L8
RDM1E-125	164	53	93	35	M8	—	—	168	50	64	76	18	M8	M6	220	250
RDM1E-250	173	55	100	35	M8	8.5	—	183	50	72	87	18	M8	M6	252	276
RDM1E-400	267	68	128	37	M10	10.5	8.5	279	60	84	107	21	M10	M8	357	387
RDM1E-800	295	84	—	37	M12	13	16	296	61	97	148	16	M12	M8	—	—

RDM1E-1250 front plate (3P)X-X, Y-Y is the center of breaker



Pictured11 RDM1E-1250 Front plate wiring and installation size

MOULDED CASE CIRCUIT BREAKER

RDM5

Moulded Case Circuit Breaker



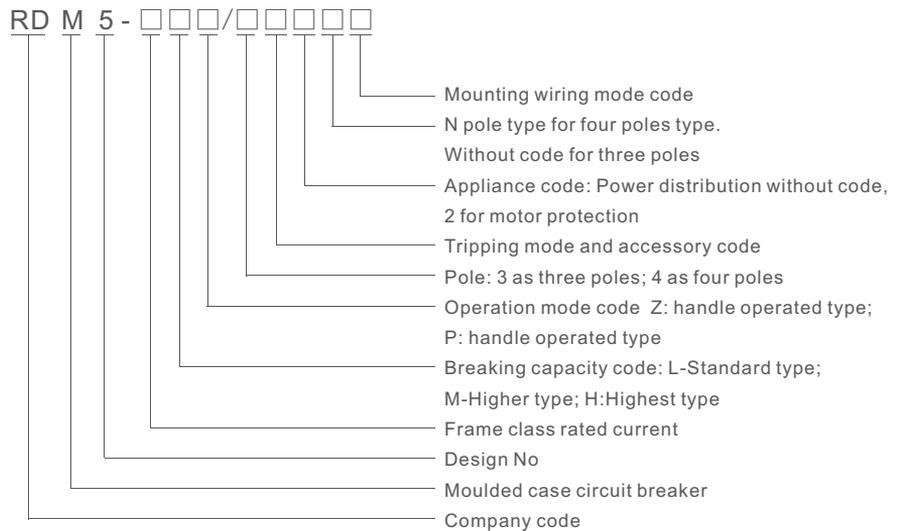
Application

RDM5 series moulded case circuit breaker is applied to the circuit of AC 50HZ, insulation voltage 1000V, rated working voltage up to 690V, rated current up to 800A, which to distribute the power and protect the circuit and power source against overload, short-circuit and under voltage damage. Especially, when the current is lower 630A, it also can protect the motor. Normally breaker can infrequently invert and starting of motor.

The product can be installed vertically and horizontally.

The product is applied to insulation, sign: $\text{---} \text{---} \text{---}$

Model No.



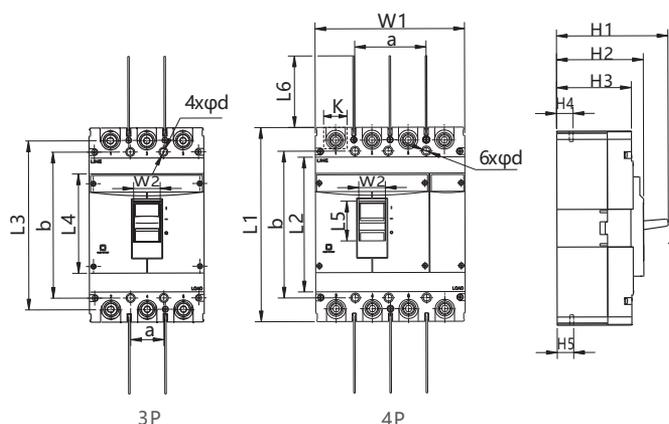
Normal operating condition and installation condition

1. Installation location no more than 2000m
2. Temperature: not higher than +40°C, and no lower than -5°C, and the average temperature no higher than +35°C
3. The relative humidity: no more than 50%, when temperature is +40°C. The product can withstand the higher humidity under lower temperature, for instance, when temperature at +20°C, the product can withstand 90% relative humidity.
4. Class of pollution: 3 Class
5. Main circuit breaker installation type: III class, Auxiliary circuit and control circuit installation type: II class
6. The max angle of installation is 22.5°

Model	Frame class rated current Inm(A)	Rated current In(A)	Rated working voltage Ue(V)	Rated insulation voltage(V)	Pole	Rated limited short circuit breaking capacity	Rated limit/Rated operation Icu/Ics(KA)		Arc distance (mm)
							AC400V	AC690V	
RDM5-125	125	10,16,20,25,32,40,50,63,80,100,125	400/690	1000	3,4	L	50/35	20/10	≤50
							70/50	20/12	
							100/70	30/15	
RDM5-250	250	100,125,160,180,200,225,250	400/690	1000	3,4	L	50/35	20/10	≤50
							70/50	20/12	
							100/70	30/15	
RDM5-400	400	200,225,250,315,350,400	400/690	1000	3,4	L	50/50	20/10	≤100
							70/70	25/15	
							100/75	35/18	
RDM5-630	630	400,500,630	400/690	1000	3,4	L	50/50	20/10	≤100
							70/70	25/15	
							100/75	35/18	
RDM5-800	800	500,630,700,800	400/690	1000	3,4	L	65/65	20/10	≤100
							75/75	25/15	
							100/75	35/20	

External and installation dimensions

RDM5-125~800 front plate wiring appearance and installation dimension

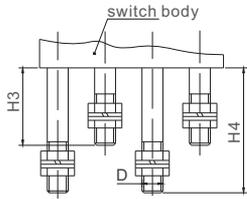


Model	Poles	Front plate wiring														Mounting dimension		
		L1	L2	L3	L4	L5	L6	W1	W2	H1	H2	H3	H4	H5	K	a	b	d
RDM5-125L	3	130	-	116.5	85	-	49.5	75	11	80.5	71	56	24.5	24.5	16	25	111	3.5
	4	130	-	116.5	85	-	49.5	100	11	80.5	71	56	24.5	24.5	16	25	111	3.5
RDM5-125M/H	2	150	-	132	88	31	52	62	14.5	110	96	82	29.5	29.5	18	-	129	4.5
	3	150	-	132	88	31	52	92	14.5	110	96	82	29.5	29.5	18	30	129	4.5
RDM5-250L	3	165	-	144	102	33	65	107	14	96	76	67	23	23	23	35	126	4.5
	4	165	-	144	102	33	65	142	14	96	76	67	23	23	23	70	126	4.5

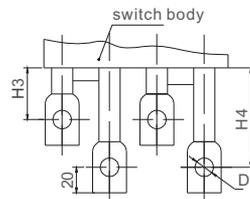
MOULDED CASE CIRCUIT BREAKER

Model	Poles	Front plate wiring														Mounting dimension		
		L1	L2	L3	L4	L5	L6	W1	W2	H1	H2	H3	H4	H5	K	a	b	d
RDM5-250M/H	2	165	-	144	102	33	65	75	14	115	94	85	23	23	23	-	126	4.5
	3	165	-	144	102	33	65	107	14	115	94	85	23	23	23	35	126	4.5
	4	165	-	144	102	33	65	142	14	115	94	85	23	23	23	70	126	4.5
RDM5-400L/M/H	3	257	132	224	132	53	100	150	35	148	117	101	38	38	33	44	194	7
	4	257	132	224	132	53	100	198	35	148	117	101	38	38	33	94	194	7
RDM5-630L/M/H	3	270	146	235.5	146	52.5	100	182	35.5	166	119	106	45	42	44	58	200	7
	4	270	146	235.5	146	52.5	100	240	35.5	166	119	106	45	42	44	116	200	7
RDM5-800L/M/H	3	280	148	243	148	52	100	210	35	168	122	108	43	41.5	44.5	70	243	7
	4	280	148	243	148	52	100	280	35	168	122	108	43	41.5	44.5	140	243	7

RDM5-125~800 back plate wiring appearance and installation dimension

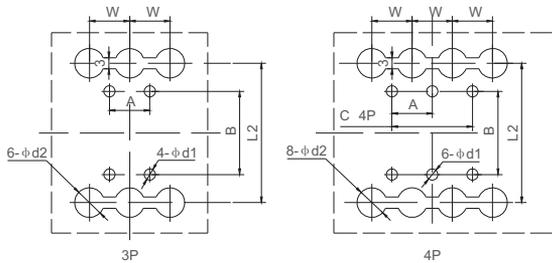


RDM5-125,250 back plate wiring



RDM5-400,630,800 back plate wiring

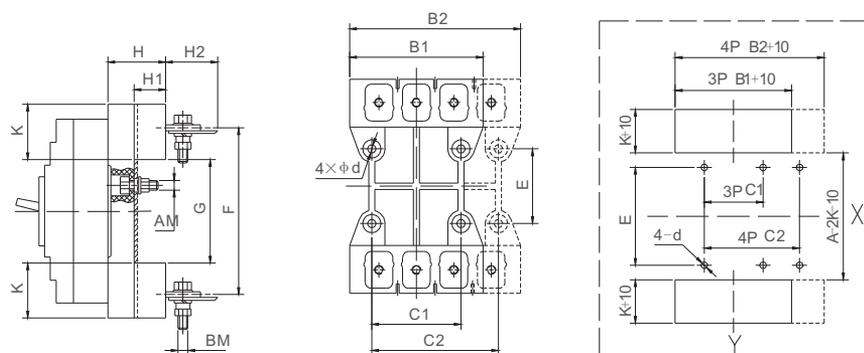
Installation hole dimension of back plate wiring



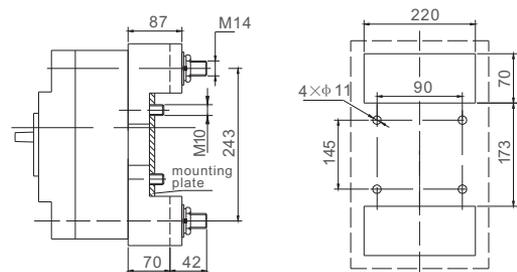
RDM5-125~800 Installation hole dimension of back plate wiring

Model	Dimension code									
	H3	H4	D	W	L2	d2	A	B	C	d1
RDM5-125L	39.5	69.5	M6	25	116	12	25	111	50	4.5
RDM5-125M/H	64	100	M8	30	132	24	30	108	60	5.5
RDM5-250L	72	101	M10	30	145	15	35	126	70	5.5
RDM5-250M/H	70	100	M10	35	144	26	35	122	70	5.5
RDM5-400	71	105.5	φ12	48	224	32	44	194	94	7
RDM5-630	46	105	φ16	58	234	37	58	200	116	7
RDM5-800	105	105	φ16	70	243	48	70	243	70	7.5

RDM5 plug-in wiring appearance and installation dimension



Installation plate hole dimension(mm)



RDM5-800 3P plug-in type appearance dimension and installation plate hole drawing

RDM5-125~800 3P plug-in type appearance dimension and installation plate hole dimension

Model	Dimension code															
	A	B1	B2	C1	C2	E	F	G	K	H	H1	H2	H3	AM	BM	4-d
RDM5-125L	136	75	100	51	76	60	116	92	12	-	-	-	-	M6	M8	φ4.5
RDM5-125M/H	168	91	125	60	90	56	132	92	38	48	32.5	32.5	18	M6	M8	φ6.5
RDM5-250L	184	109	144	70	105	74.5	146	104	30	-	-	-	15	M6	M8	φ6
RDM5-250M/H	186	107	145	70	105	54	144	94	45.5	49.5	33.5	34	15	M6	M8	φ6.5
RDM5-400	280	149	200	60	108	129	224	170	55	59.5	40	44	23.5	M8	M12	φ8.5
RDM5-630	300	182	242	100	158	123	234	170	65	60	40	50	30.5	M8	M12	φ8.5
RDM5-800	305	210	280	90	162	146	242	181	62	87	60	-	-	M10	M14	φ11

MOULDED CASE CIRCUIT BREAKER

RDM1L

Moulded Case Circuit Breaker



Application

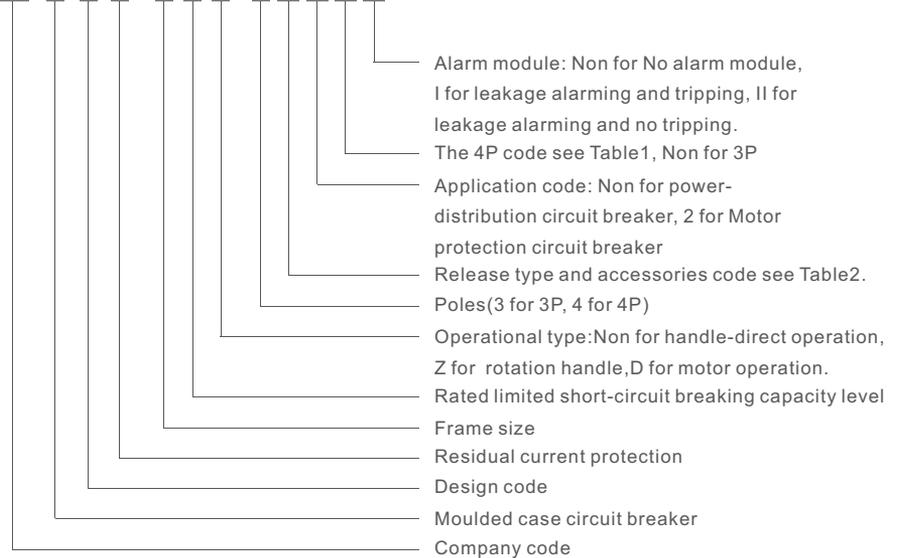
RDM1L series moulded case circuit breaker, is mainly applied to the distribution circuit of AC50/60Hz, rated working voltage is 400V, rated current up to 800A for providing protection indirectly and prevent the fire caused by the fault grounding current, and it also can be used for power distribution and circuit protection against overload and short-circuit, it also works for transferring circuit and starting motor unfrequently.

This product is suitable for isolating.

This product is applied to standard of IEC 60947-2.

Model No.

RD M 1 L - □ □ □ / □ □ □ □ □ □



Note: RDM1L-100L and RDM1L-225L have no leakage alarm module.

Normal operation condition and installation condition

3.1 Temperature: no higher than +40°C, and no lower than -5°C, and the average temperature no higher than +35°C.

3.2 Installation location no more than 2000m.

3.3 The relative humidity: no more than 50%, when Temperature is +40°C, The product can withstand the higher humidity under lower temperature, for instance, when temperature at +20°C, the product can withstand 90% relative humidity.

The condensation that happened because of temperature changes should be taken care with special measurements

3.4 Class of pollution : 3 Class

3.5 It should be installed at the place that have no danger of explosion, it also has no gas and conductive dust which would cause metal-corrosion and insulation-damage.

3.6 Maximum install inclined Angle 5°, it should be installed at the place has no obvious impact and weather-influence.

3.7 Main circuit installation type: III, Auxiliary circuit and control circuit installation type:II

3.8 External magneticfield of Installation location should not exceed than 5 times of earth magnetic field.

3.9 Installation electromagnetic environment: B type

Table1

Code	Instruction
A type	N pole has no overload release, and N pole is always connected and do not connect or break with the other 3 pole together.
B type	N pole has no overload release, and N pole connect or break with the other 3 pole together.
C type	N pole has overload release, and N pole connect or break with the other 3 pole together.
D type	N pole has overload release, and N pole always connected,do not connected or break with the other 3 pole together.

Table2

accessory code release type	accessory name														
		non	alarming contact	shunt reelease	auxiliary contact	under voltage release	shunt auxiliary release	under shunt voltage release	2 sets contacts	auxiliary contact & under voltage release	alarming contact & shunt release	alarming auxiliary contact	alarming auxiliary contact & shunt release	2 sets auxiliary alarming contact	
instantaneous release		200	208	210	220	230	240	250	260	270	218	228	248	268	
multiple release		300	308	310	320	330	340	350	360	370	318	328	348	368	

Note:1.Only 4P B type and C type products has 240,250,248 and 340,350,318,348 accessory code.

2.Only RDM1L-400 and 800 frame size 4P B type and C type product have 260,270,268 and 360,370,368 accessory code.

3.2 Classification

3.2.1 Pole: 2P, 3P and 4P(2P product only has RDM1L-125L/2300, RDM1L-125M/2300,RDM1L-250M/2300,RDM1-250M/2300)

3.2.2 Connection type: front board connection, back board connection and insert type.

3.2.3 Application: power-distribution type and motor-protection type

3.2.4 Residual current release type: electromagnetic type, intantanous type.

3.2.5 Residual current breaking time: delay type and Non-delay type

3.2.6 Rated limited short-circuit breaking capacity: L-standard type, M-Medium type, H-high type

3.2.7 Operational type: Handle-directed operation, Motor operation(P), rotation-handle operation(Z,for cabinet)

Main technical parameter

4.1 $U_i=690V$, $U_{imp}=8kV$, the main technical parameter see Table3.

Table3

Model No.	Rated current $I_n(A)$	Rated operational voltage(V)	Rated short-circuit breaking capacity R		Rated residual short circuit making and breaking capacity $I_m(A)$	Rated residual action current $I_n(mA)$	Arc distance mm
			$I_{cu}(kA)$	$I_c(skA)$			
RDM1L-125L	10 16 20	400	35	22	25% I_{cu}	30/100/300 No delay type 100/300/500 delay type	≤ 50
RDM1L-125M	25 32 40		50	35			
RDM1L-125H	50 63 80 100		85	50			
RDM1L-250L	100, 125、	400	35	22	25% I_{cu}	100/300/500	≤ 50
RDM1L-250M	160, 180、		50	35			
RDM1L-250H	200, 225		85	50			
RDM1L-400L	225, 250、	400	50	25	25% I_{cu}	100/300/500	≤ 50
RDM1L-400M	315, 350、		65	35			
RDM1L-400H	400		100	50			
RDM1L-800L	400, 500、	400	50	25	25% I_{cu}	300/500/1000	≤ 50
RDM1L-800M	630, 700、		70	35			
RDM1L-800H	800		100	50			

MOULDED CASE CIRCUIT BREAKER

4.2 Circuit breaker residual current action protection time see Table4

Table4

Residual current		$I\Delta n$	$2I\Delta n$	$5I\Delta n$	$10I\Delta n$
Non-delay type	Max breaking time(s)	0.3	0.15	0.04	0.04
	Limited undrive time t(s)	-	0.1/0.5	-	-
Delay type	Max breaking time(s)	0.4/1.0	0.3/1.0	0.2/0.9	0.2/0.9
	Limited undrive time t(s)	-	0.1/0.5	-	-

4.3 Overload release consists of the thermal long-delay release which has inverse-time characteristic and instantaneous action release, the action feature see Table5

Table5

Power-Distribution circuit breaker				Motor-protection circuit breaker			
Rated current I_n (A)	Thermal release		electromagnetic release action current	Rated current I_n (A)	Thermal release		electromagnetic release action current
	1.05 I_n (cool state) Non-action time(h)	1.30 I_n (heat state) Action time(h)			1.0 I_n (cool state) non-action time(h)	1.20 I_n (heat state) action time(h)	
$10 \leq I_n \leq 63$	1	1	$10I_n \pm 20\%$	$10 \leq I_n \leq 630$	2	2	$12I_n \pm 20\%$
$63 < I_n \leq 100$	2	2					
$100 < I_n \leq 800$	2	2	$5I_n \pm 20\%$ $10I_n \pm 20\%$				

4.4 Accessory device technical parameter

4.4.1 Auxiliary contact and alarm contact rated value, see Table6

Table6

Contact	Frame size rated current	conventional heating current I_{th} (A)	Rated operation current I_e (A)	
			AC400V	DC220V
Auxiliary contact	$I_{nm} \leq 225$	3	0.3	0.15
	$I_{nm} \geq 400$	3	0.4	0.15
Alarm contact	$100 \leq I_{nm} \leq 630$	3	0.3	0.15

4.4.2 Control circuit release and motor rated control power voltage(U_s) and rated operational voltage(U_e) See Table7.

Table7

Type		Rated voltage (V)		
		AC 50Hz	DC	
Release	shunt release	U_s	230	400
	undervoltage release	U_e	230	400
motor mechanism		U_s	230	400

4.4.2.1 shunt release external voltage is between rated control power voltage 70%~110%, it can tripping the release reliably.

4.4.2.2 when power supply voltage decrease to 70% to 35% undervoltage rated operating voltage, under-voltage release can breaking the line. When the power supply voltage is higher than 85% of undervoltage release rated operating voltage, the undervoltage release will that circuit breaker close. Warning: Undervoltage release must be charged at first, then circuit breaker closed. If not, the circuit breaker would be damaged.

4.4.2.3 Motor operation mechanism ensure that it can make the circuit breaker closed when the power voltage is between 85% - 110%, under rated frequency.

4.4.3 Leakage alarming module(RDM1L-125L,250L do not have it.) Specification: P5-P6 port for input power-source AC50/60Hz,230V or 400V. P1-P2, P3-P4 port for capacity is AC230V 5A, see Fig1

Note: 1. Mode II could satisfy the special place needs, User adopts this function after the consideration.

2. Circuit breaker with leakage alarming module. when the leakage alarming is happening, the leakage protection module would function after resetting the reset button of Module II. Fig1.

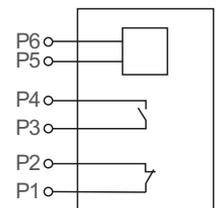


Fig1.

Appearance and Installation dimension

5.1 Appearance and Installation dimension see Fig2, Fig3 and Fig8.

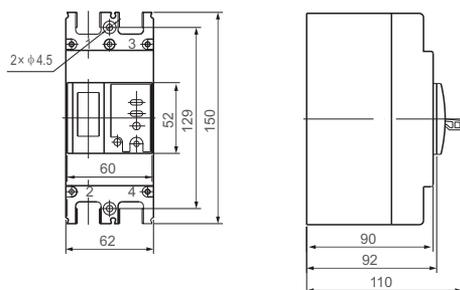


Fig2a RDM1L-125M/2300

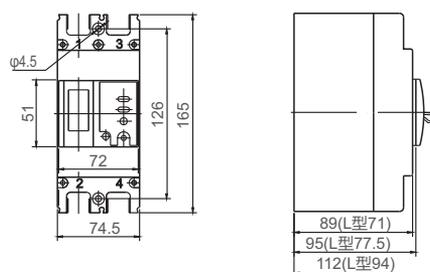


Fig2b RDM1L-250M/2300

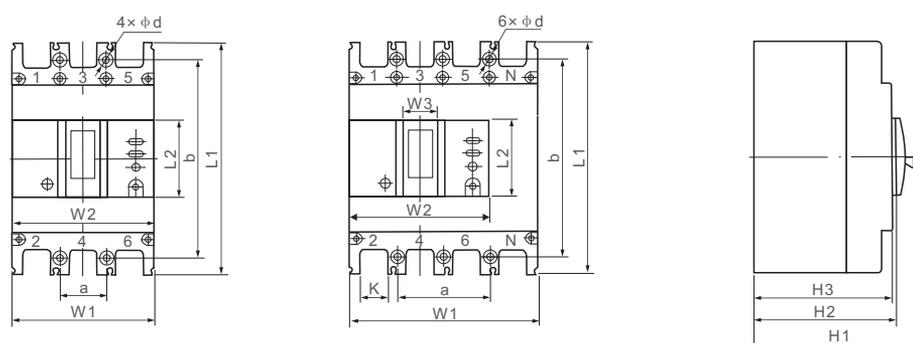


Fig3 Appearance

Table8

Model No.	Pole	Front board connection									Installation Dimension		
		L1	L2	W1	W2	W3	H1	H2	H3	K	a	b	φ d
RDM1L-125L	3	150	52	92	88	23	94	75	72	18	30	129	φ 4.5
	4	150	52	122	88	23	94	75	72	18	60	129	φ 4.5
RDM1L-250L	4	150	52	92	88	23	110	92	90	18	30	129	φ 4.5
	3	150	52	122	88	23	110	92	90	18	60	129	φ 4.5
RDM1L-250M.H	3	165	52	107	102	23	94	72	70	23	35	126	φ 5
	3	165	62	142	102	23	94	72	70	23	70	126	φ 5
RDM1L-400	3	165	52	107	102	23	110	90	88	23	35	126	φ 5
	4	165	62	142	102	23	110	90	88	23	70	126	φ 5
RDM1L-800	4	257	130	150	150	65	150	110	108	32	44	194	φ 7
	4	257	92	198	142	65	150	110	108	32	44	194	φ 7
RDM1L-100M.H	4	280	138	210	210	66	150	116	111	44	70	243	φ 7
	3	280	92	280	182	67	150	116	111	44	70	243	φ 7

MOULDED CASE CIRCUIT BREAKER

ABE

Moulded Case Circuit Breaker



Application

ABE series moulded case circuit breaker is suitable for industrial or commercial power and lighting with AC 50/60Hz, rated working voltage up to AC 600V/DC 250V, rated current up to 400A. It's a kind of economical breaker with the characters of stable and reliable function: beautiful appearance, small size and long life. It can be used for conversion of line and infrequent starting motor. It can also be attached to install the accessories which have protection function for avoiding loss-voltage, under voltage. The product can install connection line with front board and back board. It also can equip hand-operating apparatus or motor-operating apparatus to control in a remote distance. It conforms with IEC60947-2.

Model No.



Main technique parameter

Type	Number of poles	Rated current in (A)	Breaking capacity (AC50/60Hz) KA					
			220/240V	380V	410V	440/460V	480/500V	600V
ABE-52b	2P	5,10,15,20,30,40,50	10	7.5	5	5	2.5	2.5
ABE-53b	3P	5,10,15,20,30,40,50	10	7.5	5	5	2.5	2.5
ABE-54b	4P	5,10,15,20,30,40,50	10	7.5	5	5	2.5	2.5
ABE-102b	2P	60,75,100	25	14	10	10	7.5	5
ABE-103b	3P	60,75,100	25	14	10	10	7.5	5
ABE-104b	4P	60,75,100	25	14	10	10	7.5	5
ABE-202b	2P	125,150,175,200,225	35	18	18	18	10	7.5
ABE-203b	3P	125,150,175,200,225	35	18	18	18	10	7.5
ABE-204b	4P	125,150,175,200,225	35	18	18	18	10	7.5
ABE-403b	3P	250,300,350,400	35	30	25	25	18	18
ABE-603b	3P	500,600	50	42	35	35	25	22
ABE-803b	3P	800	50	42	35	35	25	22

External and Installation dimension

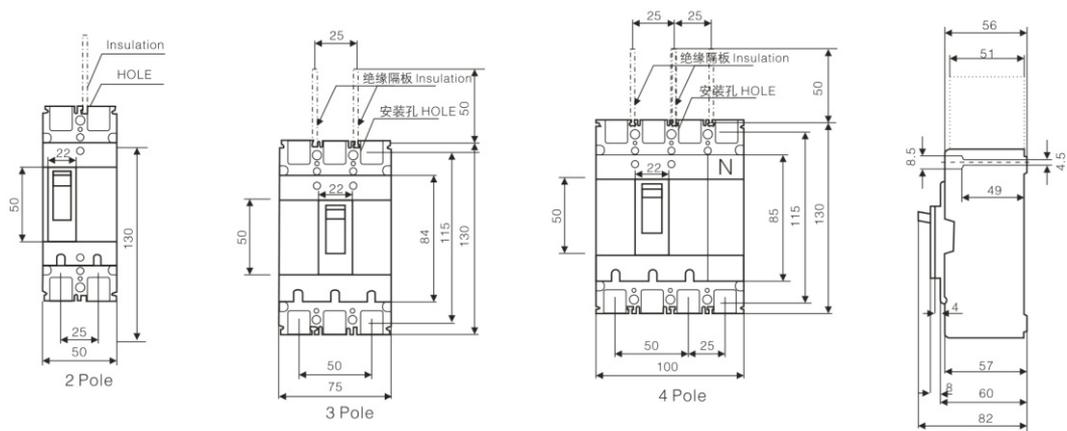


Diagram of Terminal Connection

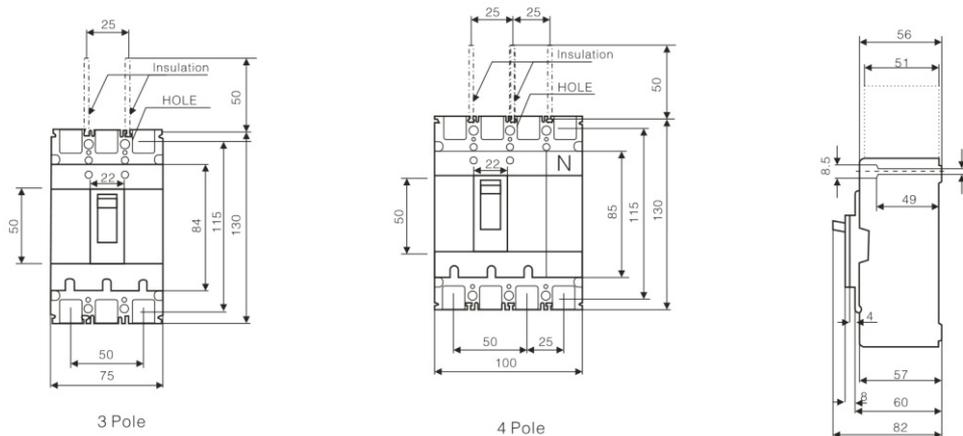
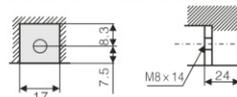


Diagram of Terminal Connection

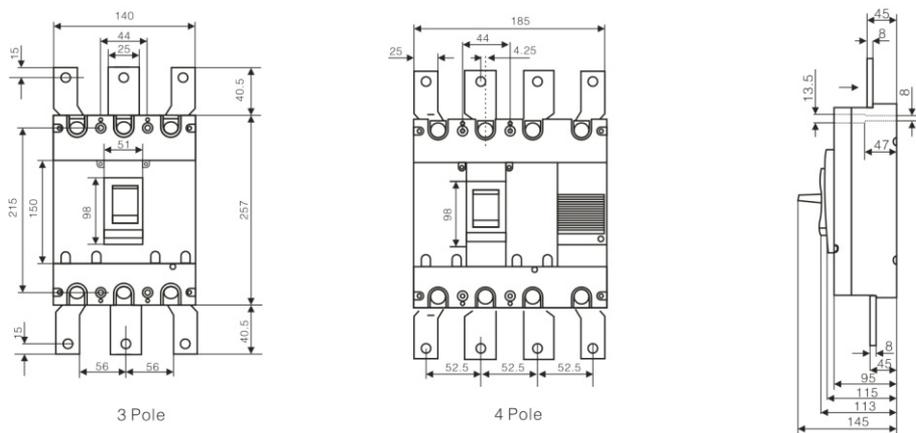
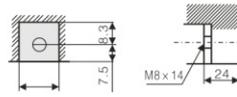
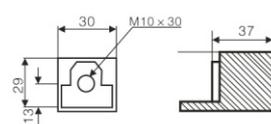


Diagram of Terminal Connection



MOULDED CASE CIRCUIT BREAKER

ABN

Moulded Case Circuit Breaker



Application

ABN series moulded case circuit breaker is suitable for industrial or commercial power and lighting with AC 50/60Hz, rated working voltage up to AC 600V/DC 250V, rated current up to 400A. This breaker with the characters of stable and reliable function: beautiful appearance, small size and long life. It can be used for conversion of line and infrequent starting motor. It can also be attached to install the accessories which have protection function for avoiding loss-voltage, under voltage. The product can install connection line with front board and back board. It also can equip hand-operating apparatus or motor-operating apparatus to control in a remote distance. It conforms with IEC60947-2.

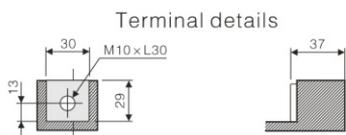
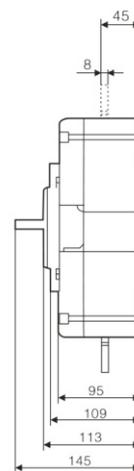
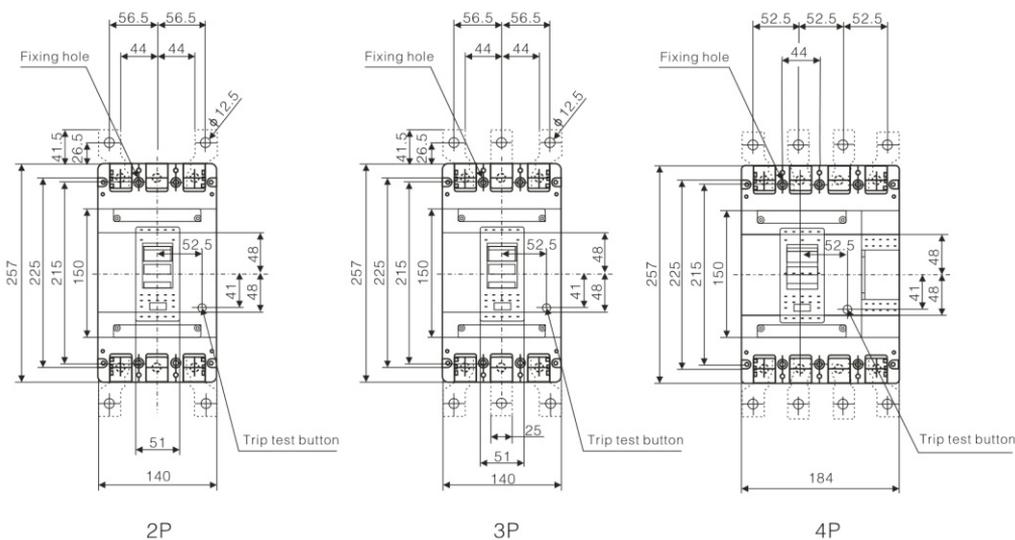
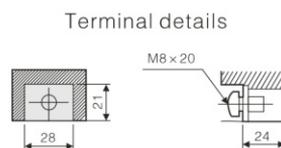
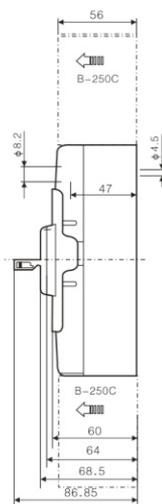
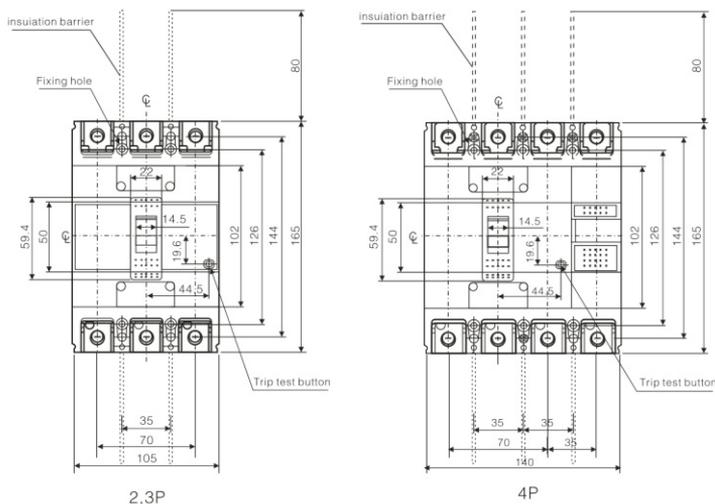
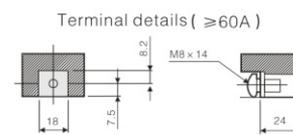
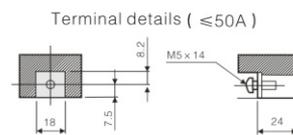
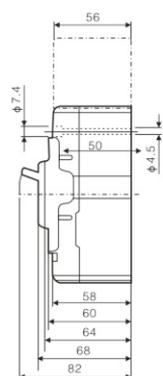
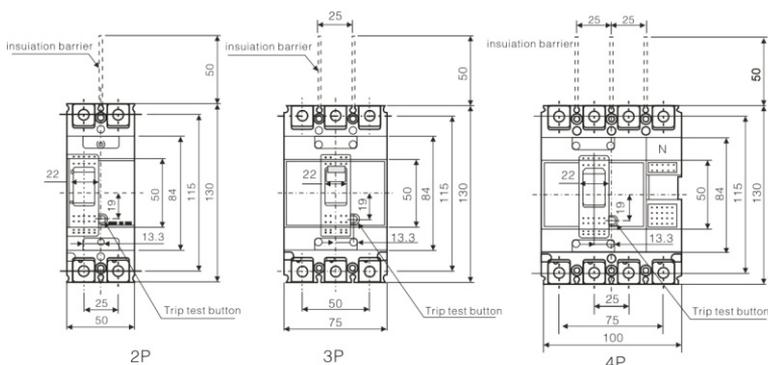
Model No.



Main technique parameter

Frame grade		50AF	100AF	250AF	400AF	800AF
Type		N Type				
Type and pole	2P	ABN52c	ABN102c			
	3P	ABN53c	ABN103c	ABN203c	ABN403c	ABN803c
		15,20,30,40,50	15,20,30,40,50,60,75,100	100,125,150,175,200,225,250	250,300,350,400	500,630,700,800
Rated operational voltage, Ue	AC(V)	690	690	690	690	690
	DC(V)	500	500	500	500	500
Rated insulation voltage Ui V		750	750	750	750	750
Rated impulse withstand voltage Uimp Kv		8	8	8	8	5
AC	690V	2.5	5	8	5	8
	480/500V	7.5	10	18	18	25
	415/460V	14(10)	18	26	37	37
	380V	18(14)	22	30	42	45
	220/250V	30(25)	35	65	50	50
DC	500V(3P)	5	10	10	10	10
	250V(2P)	5	10	10	10	10
Ics=%×Icu		100	100	100	100	100
Dimensions W×H×D(mm)		75×130×60	75×130×60	105×165×60	140×257×109	210×280×113

External and Installation dimension



AIR CIRCUIT BREAKER

RDW1

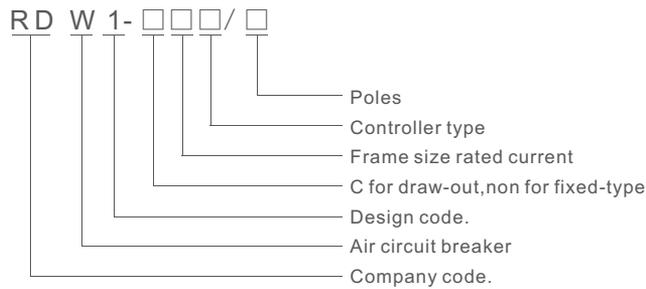
Air circuit breaker



Description

RDW1 air circuit breaker which applied to power distribution network of AC 50/60Hz, rated operational voltage up to 690V, rated current up to 6300A. It's mainly used to distribute power and protect the circuit and equipments against damages of overload, short-circuit, under voltage and ground fault, and it has intelligent protection functions, provides accurated selective protection, improves power-supply reliability to avoid unnecessary power interruption. And it also has open type communication port, can realize remote control function and satisfy the requirements of control center and automatic system. This production without intelligent controller and sensor has insulation function. This product conforms to the standard of IEC60947-2

Model No.



Normal operation condition and installation condition

3.1 Temperature: no more than +40°C, no less than -5°C, and average day temperature no more than +35°C.

If customer requires condition of higher than +40°C, or lower than -25°C, it should be consulted with manufacture.

3.2 Installation location attitude no more than 2000m

3.3 Humidity: when the temperature at +40°C, it no more 50%

The higher humidity is accepted at the lower temperature. The average humidity of month should no more than 90%, and the average temperature of month should not lower than +25°C.

The condensation should be taken care when the humidity change.

3.4 Protection class: IP20

3.5 Using type: B type

3.6 Pollution type: 3 level

3.7 Installation type:

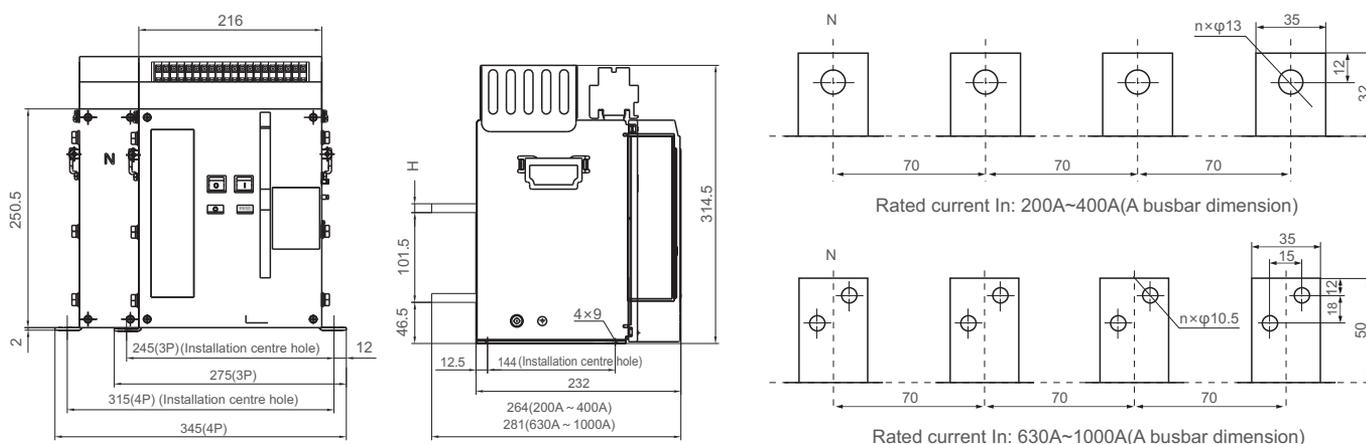
Type of circuit breaker main circuit, under voltage release, primary coil of power transformer is installation IV; type of Auxiliary circuit and control circuit installation is III.

Main technique parameter

Model No.		RDW1-1000	RDW1-2000	RDW1-3200	RDW1-4000	RDW1-6300
Rated current (A)		200,400,630,800,1000	400,630,800,1000,1250,1600,2000	2000,2500,2900,3200	3200,3600,4000	4000,5000,6300
Neutral rated current In(A)		100%In	100%In	100%In	-	50%In
Rated operating voltage (V)		AC 400	AC 400/690		AC 400	
Frequency (Hz)		50/60Hz				
Number of poles		3P/4P				
Rated impulse withstand voltage Uimp (Kv)		AC 12				
Rated isolation voltage Ui (V)		AC 1000				
Power frequency withstand voltage(V) 1min		2200				
Rated ultimate short circuit breaking capacity(Icu)	AC400V	42	80	100	80	120
	AC690V	-	50	65	-	-
Rated operating short circuit breaking capacity(Ics)	AC400V	32	65	80	65	100
	AC690V	-	50	65	-	-
Rated withstand current for short-time(Icw)	AC400V	20/30(0.5s)	65	80	65	85
	AC690V	-	40	50	-	-
Operation life(times) 2500A below 1time/3min; Above 2500A 1time/6min	Electrical life	7000	6500	3000	3000	1500
	Mechanical life	15000	15000	10000	10000	5000

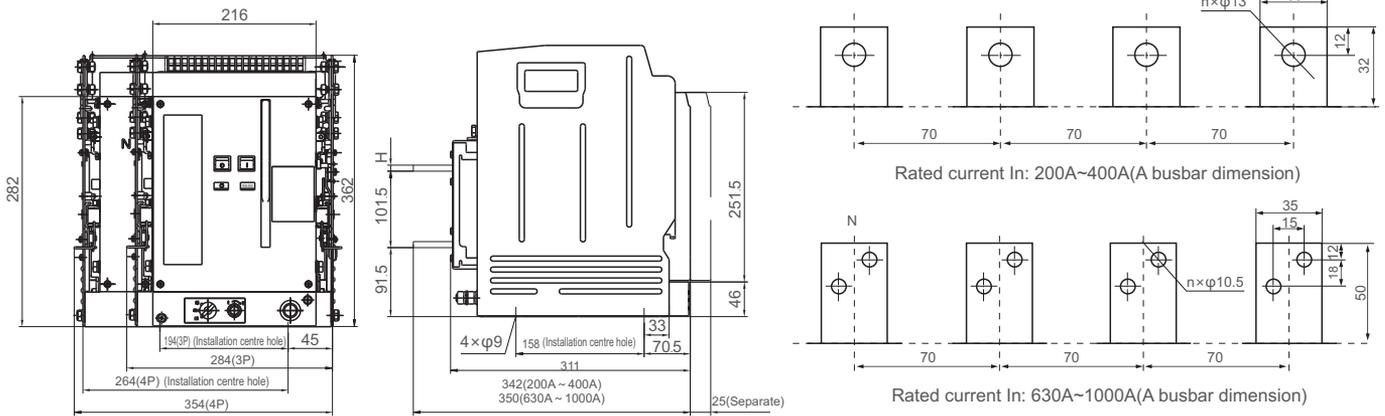
External and installation dimension

Fixed type circuit installation dimension and overall dimension

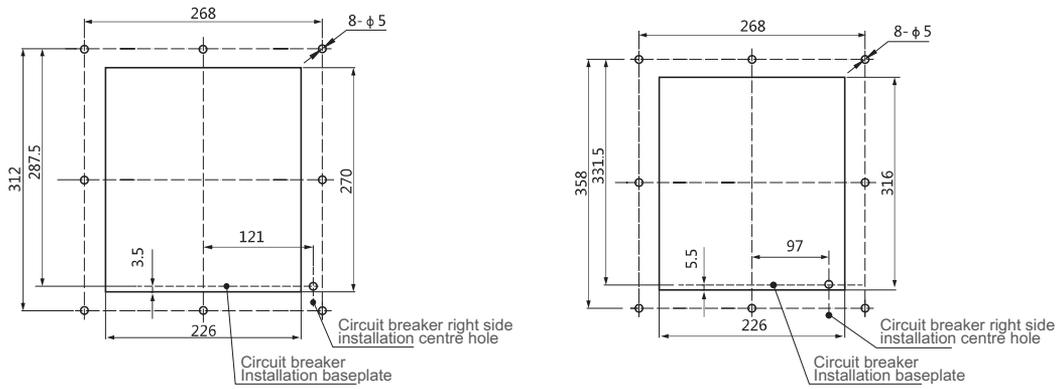


AIR CIRCUIT BREAKER

Drawout type circuit breaker Installation and Overall dimension



Drawout type and Fixed type circuit breaker Installation and Overall dimension



Fixed type 3P/4P cabinet door opening dimension

Drawout type 3P/4P cabinet door opening dimension

RDW5

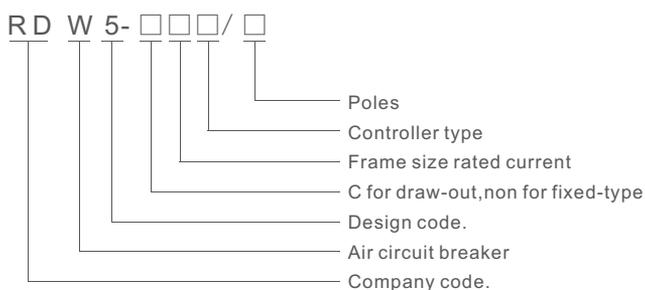
Intelligent type Air circuit breaker



Description

RDW5 series intelligent type Air circuit breaker is applied to power distribution network of AC 50/60Hz, rated operating voltage up to 400V/690V, rated current up to 6300A. It's mainly used to distribute power and protect circuit and power-supply equipment against damage of faults, such as overload, under-voltage, short-circuit, single-phase grounding, and it has insulation function. Besides, the circuit breaker has various intelligent protect function, can realize bidirectional communication between several breaker and central control computer by its network system, realize remote control function to satisfied the requirements of automatic system control. The circuit breaker conforms the standard of IEC60947-2.

Model No.



Normal operation condition and installation condition

- 3.1 Temperature: no more than +40°C, no less than -5°C, and average day temperature no more than +35°C.
If customer requires condition of higher than +40°C, or lower than -25°C, it should be consulted with manufacture.
- 3.2 Installation location attitude no more than 2000m
- 3.3 Humidity: when the temperature at +40°C, it no more 50%
The higher humidity is accepted at the lower temperature. The average humidity of month should no more than 90%, and the average temperature of month should not lower than +25°C.
The condensation should be taken care when the humidity change.
- 3.4 Protection class: IP20
- 3.5 Using type: B type
- 3.6 Pollution type: 3 level
- 3.7 Installation type:
Type of circuit breaker main circuit, under voltage release, primary coil of power transformer is installation IV; type of Auxiliary circuit and control circuit installation is III.
- 3.8 Installation condition: it should be installed according to instruction, vertical plane tilt angle should not exceed 5°
- 3.9 It conforms suandard IEC 60947-2.

AIR CIRCUIT BREAKER

Main technique parameter

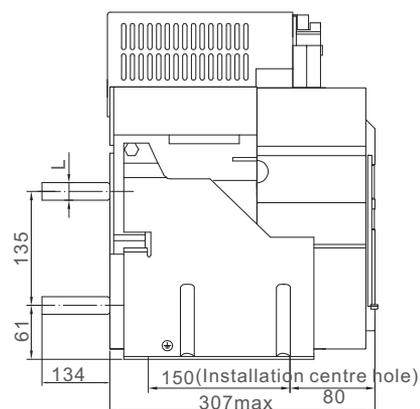
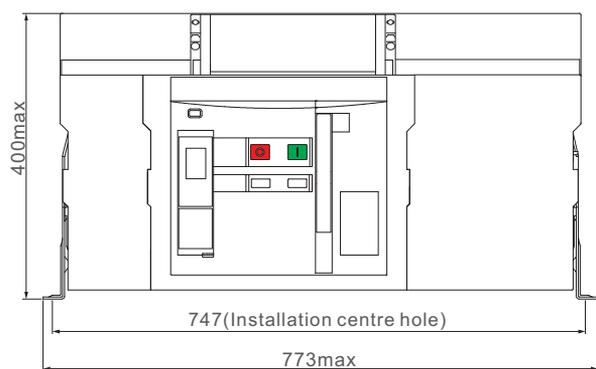
Model No.		RDW5-1600	RDW5-2500	RDW1-3200	RDW5-4000	RDW5-6300
Rated current (A)		200,400,630,800, 1000,1250,1600	1000,1250,1600, 2000,2500	2000,2500,2900, 3200,3600,4000	3200,3600,4000	4000,5000,6300
Neutral rated current In(A)		100%In	100%In	100%In	100%In	50%In
Rated operating voltage (V)		AC 400/690				
Frequency (Hz)		50/60Hz				
Number of poles		3P/4P				
Rated impulse withstand voltage Uimp (Kv)		AC 12				
Rated isolation voltage Ui (V)		AC 1000				
Power frequency withstand voltage(V) 1min		3500(Main circuit)				
Rated ultimate short circuit breaking capacity(Icu)	AC400V	42	80	100	80	
	AC690V	-	50	65	-	
Rated operating short circuit breaking capacity(Ics)	AC400V	32	65	80	65	
	AC690V	-	50	65	-	
Rated withstand current for short-time(Icw)	AC400V	20/30(0.5s)	65	80	65	
	AC690V	-	40	50	-	
Operation life(times) 2500A below 1time/3min; Above 2500A 1time/6min	Electrical life	7000	6500	3000	3000	
	Mechanical life	15000	15000	10000	10000	
Using type		B type				
Breaking time(without any auxiliary delay)		25-30ms				
Closing time		≤70ms				
Operation life(times) 2500A below	400V electrical life	8000	8000	5000	1500	
	690V electrical life	3000	2500	2000	1000	
1time/3min;Above 2500A 1time/6min	Mechanical life (maintenance - free)	15000	12500	10000	6500	
	Mechanical life (maintenance)	30000	25000	20000	13000	
Wire incoming pattern		Wire to enter from the upper or lower port				
Arc distance(mm)		0				
Installation method		Fixed type or draw-out type				

External and installation dimension

Draw-out type						Fixed type			
Model	Poles	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
RDW5-1600	3P	282	351	345	43	254	320	254	22
	4P	352	351	345	55	324	320	254	26.5
RDW5-2500	3P	375	435	485	84	368	400	360	47
	4P	470	435	485	96	463	400	360	56
RDW5-4000	3P	435	435	515	100	428	400	392	53
	4P	550	435	515	130	543	400	392	67
RDW5-6300	3P	780	435	515	195	773	400	441	106
	4P	895	435	515	225	888	400	441	120

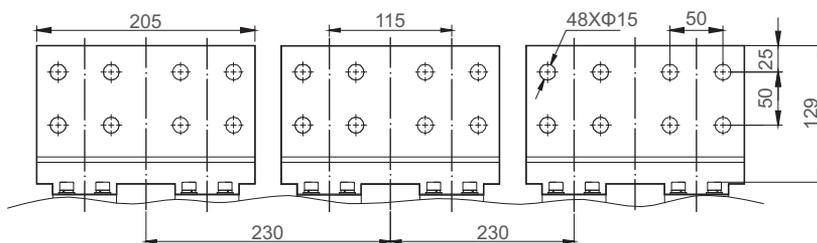
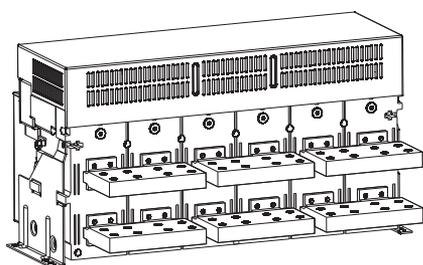
Overall dimension

horizontal connection and overall dimension



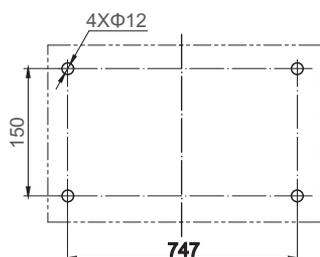
RDW5-6300/3P Fixed type horizontal connection

horizontal connection and phase spacing



Installation dimension

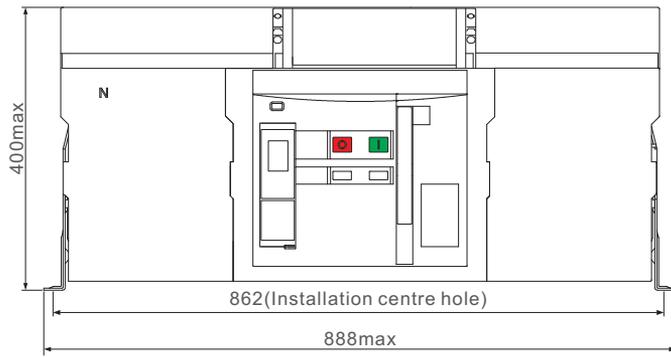
The relationship with busbar thickness and current



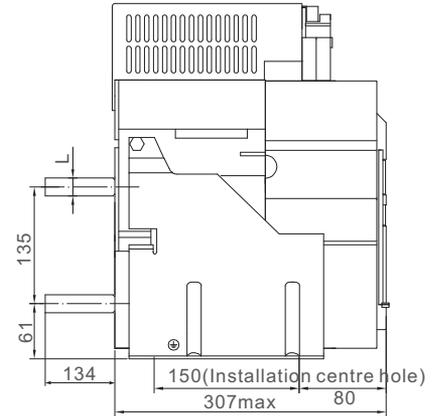
Rated current A	Busbar thickness mm
4000	20
5000 6300	30

AIR CIRCUIT BREAKER

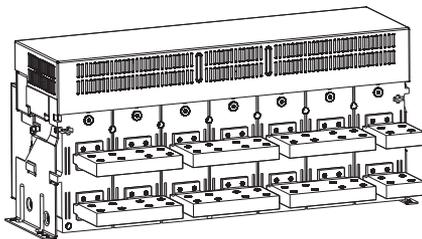
Overall dimension



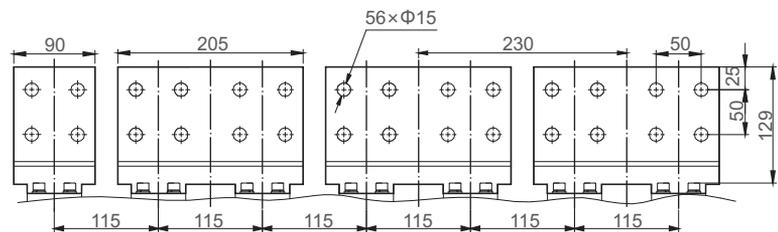
horizontal connection and overall dimension



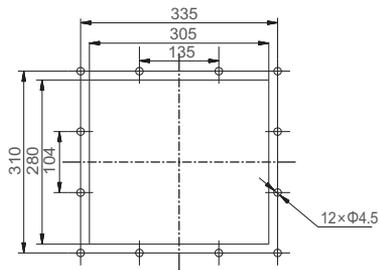
RDW5-6300/4P Fixed type horizontal connection



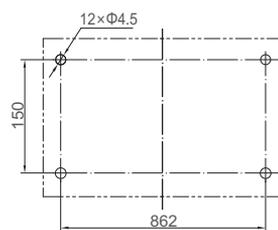
horizontal connection and phase spacing



Doorframe installation dimension of RDW5-4000~6300 fixed type



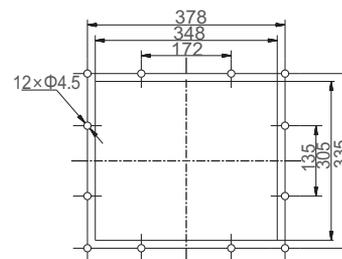
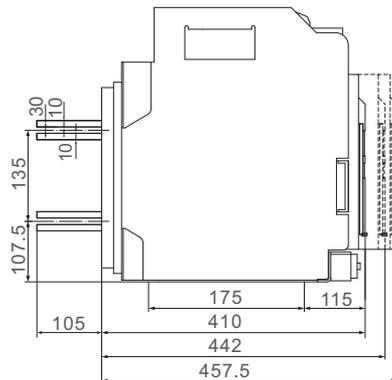
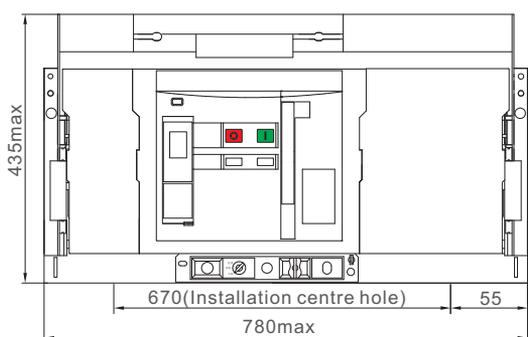
Installation dimension



Overall dimension

horizontal connection and overall dimension

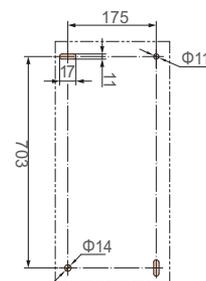
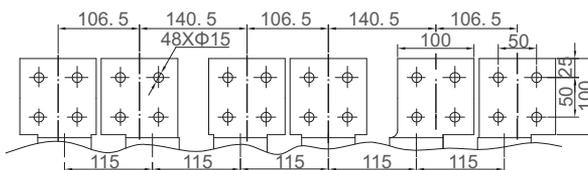
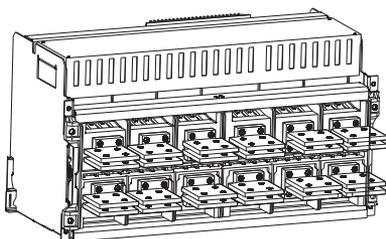
Doorframe installation dimension



RDW5-6300/3P The horizontal connection of fixed type

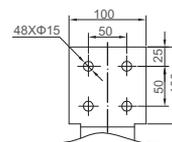
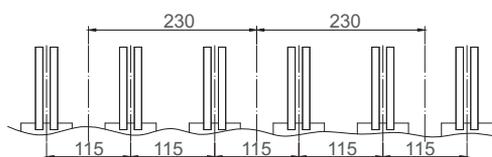
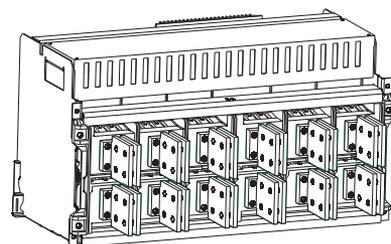
horizontal connection and phase spacing

Installation dimension



RDW5-6300/3P The vertical connection of fixed type

Vertical connection and phase spacing

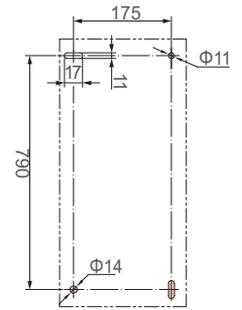
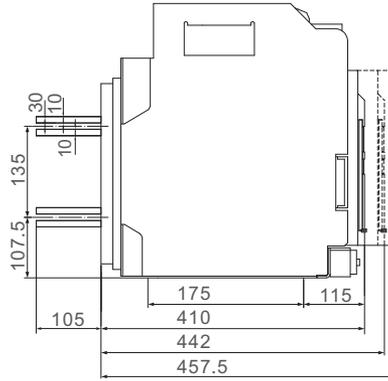
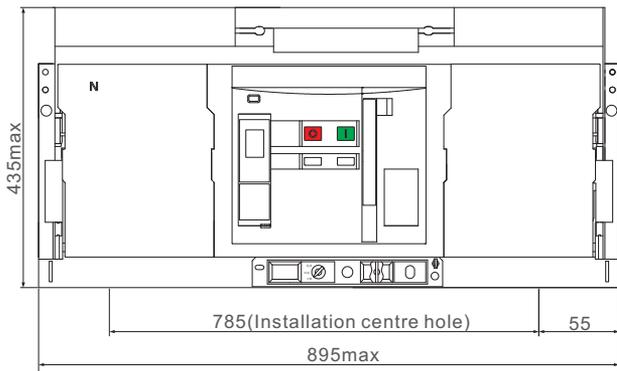


AIR CIRCUIT BREAKER

Overall dimension

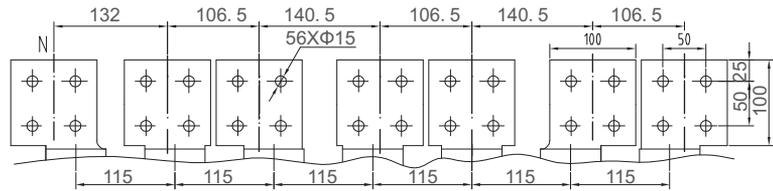
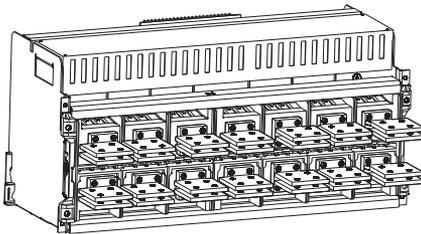
horizontal connection and overall dimension

Installation dimension



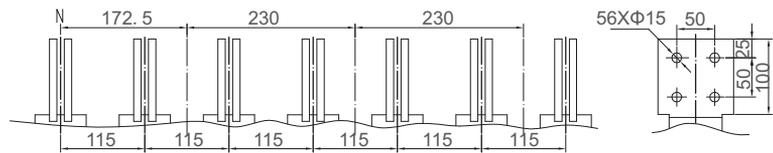
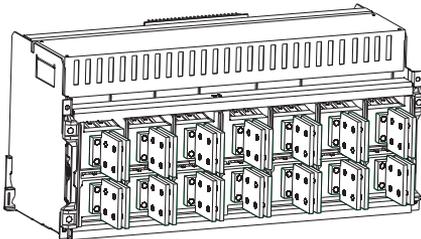
RDW5-6300/4P The horizontal connection of fixed type

horizontal connection and phase spacing



RDW5-6300/4P The vertical connection of fixed type

Vertical connection and phase spacing



AC CONTACTOR

Table 1

Model No.	Rated current (pole)	Using type	Rated operational current(A)	Rated insulation voltage (V)	Control power (kW)	Connection type
RDCH8-25	16 (1P/2P)	AC-7a	16	500	3.5	With soft-cable: 2×2.5mm ² With hard-cable: 6mm ²
		AC-7b	7	500	1.0	
	20 (1P/2P)	AC-7a	20	500	4	
		AC-7b	8.5	500	1.2	
	25 (1P/2P)	AC-7a	25	500	5.4	
		AC-7b	9	500	1.4	
25 (3P/4P)	AC-7a	40	500	16		
RDCH8-63	32 (2P)	AC-7a	32	500	7.2	With soft-cable: 2×10mm ² With hard-cable: 25mm ²
	32 (3P/4P)	AC-7a	32	500	21	
	40 (2P)	AC-7a	40	500	8.6	
	40 (3P/4P)	AC-7a	40	500	26	
	63 (2P)	AC-7a	63	500	14	
	63 (3P/4P)	AC-7a	63	500	40	

Table 2

Pole	Rated current (A)	Rated voltage (V)	NO NC
1P	16~25	220/230	10
2P	16~25	220/230	20
	40~63		02
3P	25	380/400	30
	40~63		
4P	25	380/400	40
	40~63		04

4.3 Operation performance: Under the condition of the ambient temperature is in the range of -5°C~+40°C, charge the contactor attract coil with rated control power voltage U_s and warm it to the stable state, the contactor should attract stably in any value between the 85% and 100% of rated control power voltage U_s ;

it should release and break between 75% and 20%(2P) or 10%(1P) of the rated control power voltage U_s .

4.4 Mechanical life: no less than 1 million times.

4.5 Electrical life: no less than 100 thousands times.

4.6 Wiring diagram: see Fig1 to Fig5

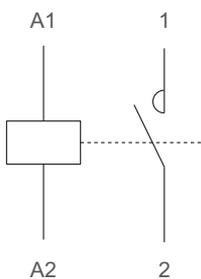


Fig1 16/10~25/10

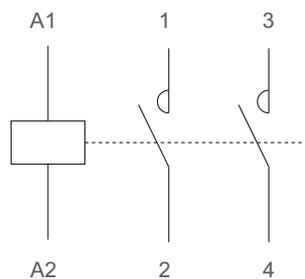


Fig2 16/20~25/20

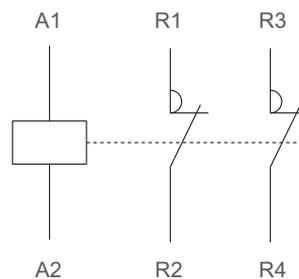


Fig3 16/02~25/02

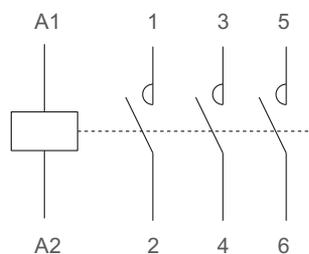


Fig3 16/30~63/30

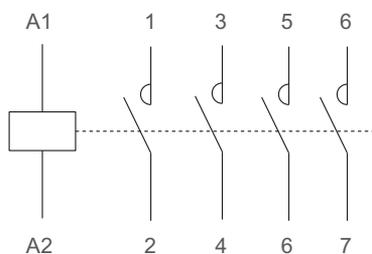


Fig4 25/40~63/40

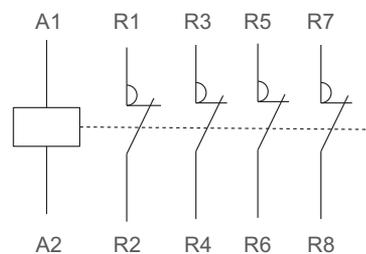


Fig3 25/04~63/04

Overall and Installation Dimensions:

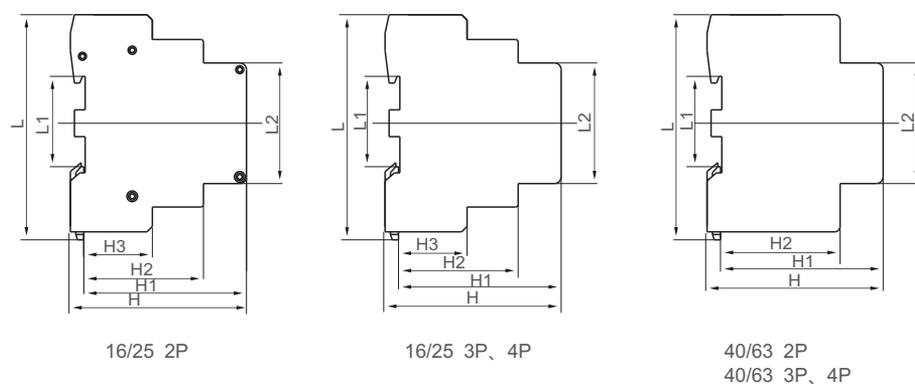
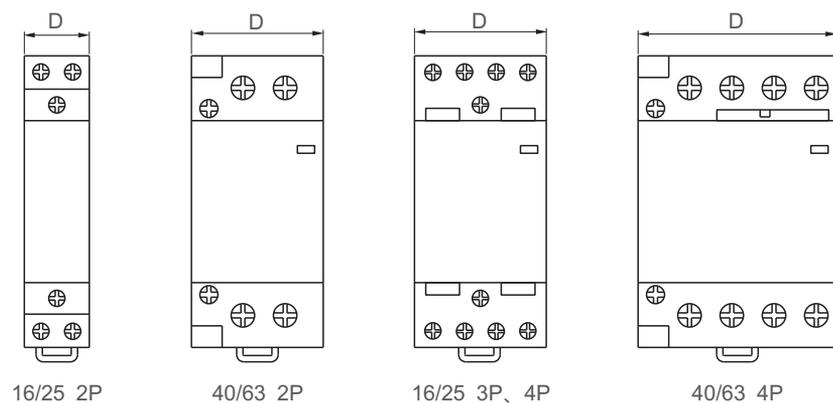


Table 3

Model No.	Rated current(Poles)	D	L	L1	L2	H	H1	H2	H3
RDCH8-25	16/25 1P,2P	18	85	35.5	45.5	66	61	45	23
	16/25 3P,4P	36	85	35.5	45.5	66	61	45	23
RDCH8-63	40/63 2P	36	85	35.5	45.5	66	61	45	-
	40/63 3P,4P	54	85	35.5	45.5	66	61	45	-

AUTOMATIC TRANSFER SWITCH

RDH5D

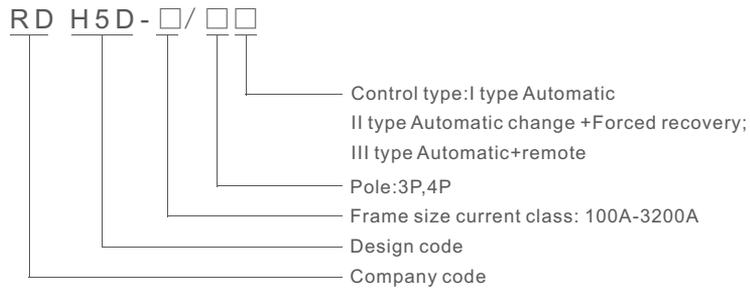
Automatic Transfer Switch



Application

RDH5D series Automatic transfer switch equipment, integrates electrical and mechanical interlocking systems to guarantee safe transfer operation. It is applicable for the industry distribution device power supply system of AC50Hz, rated voltage AC400V, rated conventional current up to 3200A. It has detection, communication, electrical and mechanical interlocking functions. It can realize full-automatic and remote control, reset, manual control for emergency and other operations. This switch is applicable for two circuit power supplies, normal and standby power supply changeover automatically or the automatic changeover and safe disconnect between two sets of load equipments.

Model No.



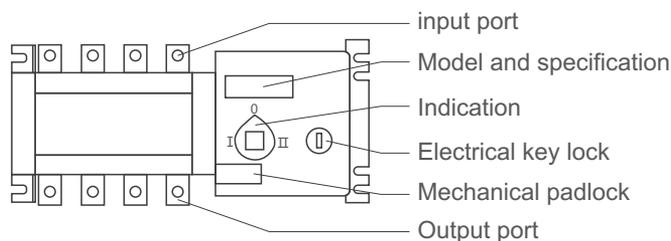
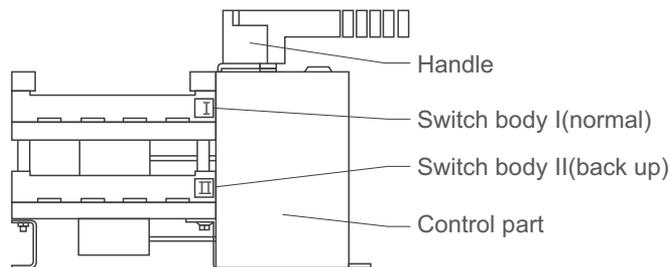
Switch structure

3.1 Electrical lock: control switch internal circuit power. when it is on, the switch can realize full-automatic, forced recovery and remote operation; when it is off, the switch only can be manual-operate.

3.2 Operation handle: The electrical lock should be off when the handle is used for manual operation.

3.3 Mechanism lock: using for detection. Firstly, turn switch to "0" position by using handle, then, pull the lock mechanism up and lock it, then taking detection. (pull up the lock, and the switch internal control power supply would be cut off, the switch can not automatic and manual operation.)

3.4 Position indication: indicate the working position (I, O, II).



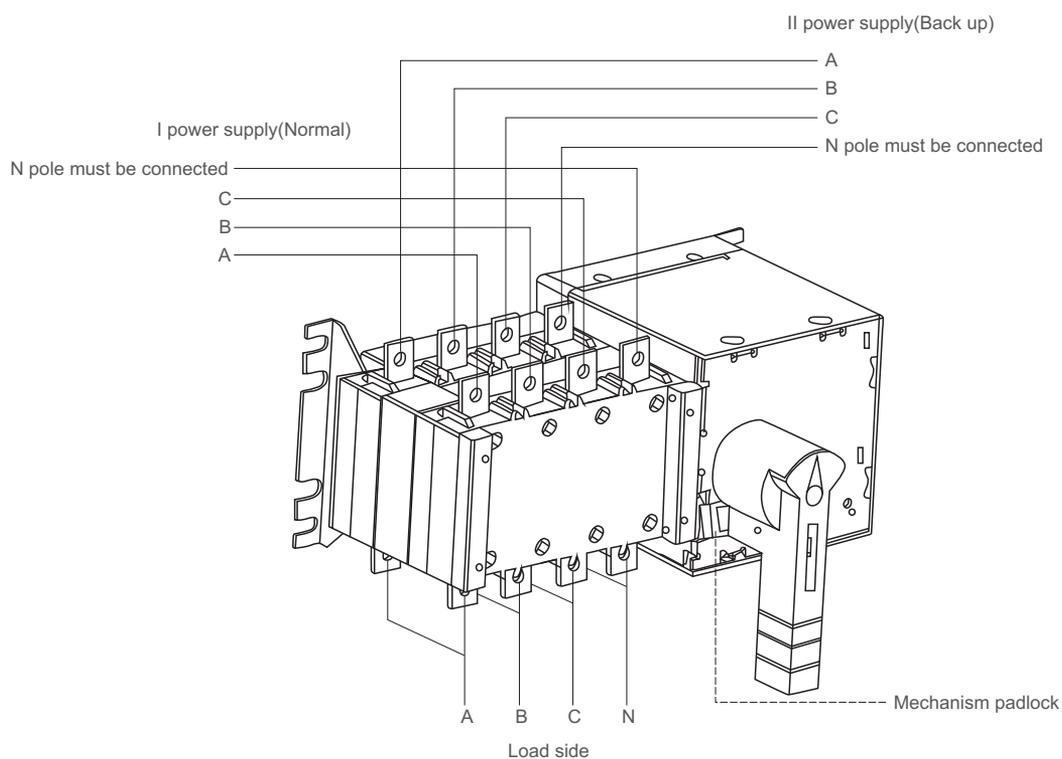
Main technical parameter

- 4.1 Standard: IEC60947-6-1
- 4.2 Rated operation voltage(Ue):AC400V
- 4.3 Rated insulation voltage(Ue):AC690V
- 4.4 Rated operation current(Ie):10A-3200A
- 4.5 Control power supply voltage: DC24V,AC230V,AC400V

Main specifications

Rated thermal current(A)	100	160	250	400	630	1000	1250	1600	2000	2500	3200	
Rated insulation voltage	690V											
Rated impulse withstand voltage	5kV	8kV				12kV						
Rated operational current(A)	AC-31A	100	160	250	400	630	1000	1250	1600	2000	2500	3200
	AC-35A	100	160	250	400	630	1000	1250	1600	2000	2500	3200
	AC-33iB	100	160	250	400	630	1000	1250	1600	2000	2500	3200
Rated short-time withstand current	5kV	10kV		13kV		50kV			55kV			
Rated limited short-circuit current	5kV	100kV		70kV		100kV	120kV		80kV			
Control power supply voltage	DC24V、AC230V、AC400V											
Change-over time(s)	0.5	1	1.1	1.2		1.25			24.5			

Wiring diagram



AUTOMATIC TRANSFER SWITCH

Usage Method

Switch function

6.1 Automatic function: when normal power supply is off, the switch transfers the circuit to Backup power supply; when normal power supply is recovery, the switch would transfer circuit to Normal power supply.

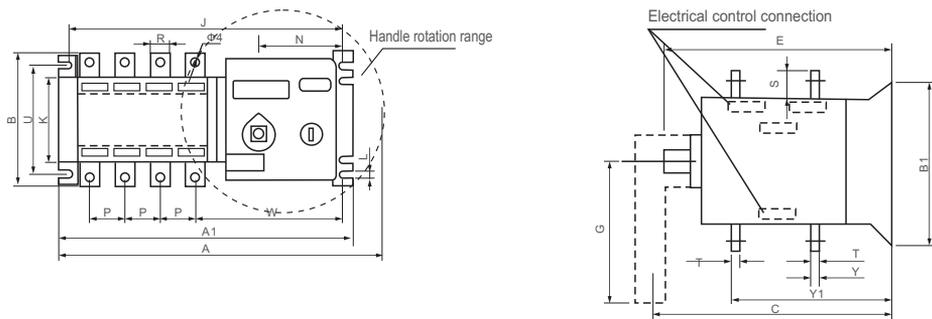
6.2 Forced recovery "0" function: start "0" button, the switch would cut two power supplies.

6.3 Remote control function: remote control, push "I" button to start the normal power supply. Push "II" button to start back up power supply; Push "0" button to cut off two power supplies.

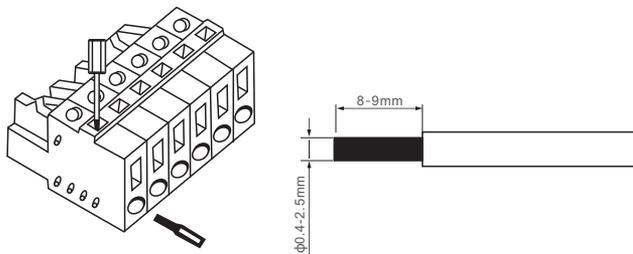
6.4 Please choose the switch function, and connect according to needs.

6.5 Please mention the model No., Specification and needed functions.

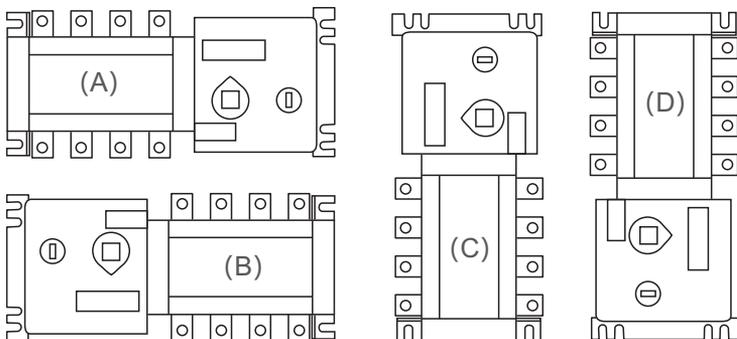
Appearance



Terminal connection



Switch installation



The above A,B,C is corrected(A is best),D is not right.

Specification	Shape dimension and Installation dimension																			
	In	A	A1	B	B1	C	E	G	J	K	L	N	P	R	S	T	U	W	ΦX	Y
100A/3	235	232	110	105	134	150	115	221	84	7	74.5	30	14	18	2.5	105	126	6	36	86
100A/4	247	244	110	105	134	150	115	232	84	7	74.5	30	14	18	2.5	105	126	6	36	86
160A/3	292	270	145	128	230	200	145	254	105	7	91	36	20	25	3.5	127	158	9	55	125
160A/4	322	303	145	128	230	200	145	285	105	7	91	36	20	25	3.5	127	158	6	55	125
250A/3	356	312	170	142	261	220	145	295	105	7	91	50	25	30	3.5	142	168	6	60	145
250A/4	406	365	170	142	261	220	145	345	105	7	91	50	25	30	3.5	142	168	6	60	145
400A/3	487	370	240	222	284	280	189	351	180	9	93	65	32	40	5	222	203	9	83	193
400A/4	552	437	240	222	284	280	189	422	180	9	93	65	32	40	5	222	203	9	83	193
630A/3	487	368	240	222	284	280	189	351	180	9	93	65	40	50	6	222	203	9	83	193
630A/4	552	437	240	222	284	280	189	422	180	9	93	65	40	50	6	222	209	9	83	193
800A/3	646	519	328	250	363	320	443	490	220	11	87	120	60	69	8	250	207	11	109	254
800A/4	760	630	328	250	363	320	443	610	220	11	87	120	60	69	8	250	207	11	109	254
1000A/3	646	519	328	250	363	320	443	490	220	11	87	120	60	69	8	250	207	11	109	254
1000A/4	760	630	328	250	363	320	443	610	220	11	87	120	60	69	8	250	207	11	109	254
1250A/3	646	519	335	250	363	320	443	490	220	11	87	120	80	69	8	250	207	11	110	255
1250A/4	760	630	335	250	363	320	443	610	220	11	87	120	80	69	8	250	207	11	110	255
1600A/3	646	519	335	250	363	351	443	499	220	11	87	120	80	69	10	250	207	12	110	255
1600A/4	760	634	335	250	363	351	443	617	220	11	87	120	80	69	10	250	207	12	110	255
2000A/3	800	535	423		542	560	447	490	220		84.5		80	120	10			12		169
2000A/4	800	633	423		542	560	447	617	220		84.5		80	125	15			12		174
2500A/3	800	535	423		542	560	447	490	220		84.5		80	130	20			12		179
2500A/4	800	633	423		542	560	447	617	220		84.5		80	120	10			12		169
3200A/3	800	535	423		542	560	447	490	220		84.5		80	125	15			12		174
3200A/4	800	650	423		542	560	447	617	220		84.5		80	130	20			12		179

Switch control type and relevent function

10.1 I type: Automatic type

10.2 II type: Automatic, Forced "O", remote control, With generator.

10.3 III type: Phase loss detection protection,automatic, Forced "O", remote control, With generator.

10.4 Automation: Self-throwing and self-reset, when normal power supply stops or defaults phase, switch transfers circuit to standby power supply.And when normal power recovers, switch transfers circuit return to normal power supply.

10.5 Forced "0":when there is an emergency or device detection, start Forced "0" self-lock button, switch turns to "0" position and cut two circuits.

10.6 Remote control: start "I" position button, then normal power supply starts working;start "II" position button, then standby power supply starts working.

10.7 With generator:when normal power supply stops or defaults phase,then it gives the signal to start generator. When the power is turned on, the switch will automatically switch to the power supply. And when normal power supply recovers, switch returns the circuit to normal power supply,and stops the generator.

10.8 Phase loss protection:detect and protect normal power supply phase-loss.

AUTOMATIC TRANSFER SWITCH

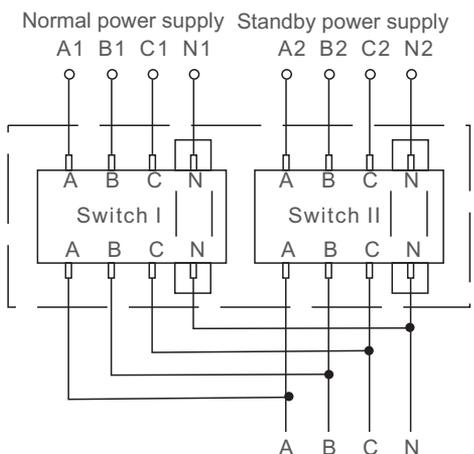
Using instruction

- 11.1 Nonprofessional installation and Unauthorized opening is forbidden;
- 11.2 Please read this instruction to avoid improper using.
- 11.3 Switch interior control power supply rated voltage is 220V, from c1 of normal power supply,N1and C2,N2of standby power supply .Only it is between 85% to 110% of rated control voltage, it could work normally.
- 11.4 Switch input terminal power supply should have overload protection for interior circuit board and control motor to avoid high voltage damage.
- 11.5 Switch output terminal should have short-circuit protection against high circuit damage.
- 11.6 When installing, Please turn off Electrical key lock, and turn the switch to "0" position.
- 11.7 when connecting, please distinguish A, B, C, N of power supply input line, and connect to relative poles.
- 11.8 Before powering on, please check whether C.N voltage is in the 85% to 110% rated control voltage range, then turn on the electrical lock.
- 11.9 Please keep the electrical key and handle separately in case of accident.

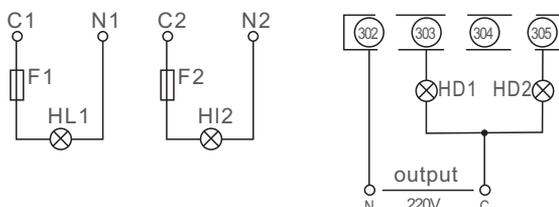
output connection	internal device	terminal instruction
<p>AC230V — 101 I AC230V — 102 — 103 — 104 II AC230V — 105 — 106 0 — 106</p>	<p>internal input</p> <p>second power supply</p>	<p>terminal</p> <p>ATSE</p> <p>Normal power supply standby power supply</p> <p>230V AC 230V AC 0</p> <p>101 102 103 104 105 106</p>
<p>common port — 201 I position — 202 0 position — 203 — 204 — 205 II position — 206</p>	<p>control</p>	<p>terminal</p> <p>instruction/automatical select</p> <p>common port I 0 II</p> <p>201 202 203 204 205 206</p>
<p>Common port — 301 I position — 302 0 position — 303 — 304 II position — 305 — 306</p>	<p>position indicators</p>	<p>terminal</p> <p>position</p> <p>I 0 II</p> <p>301 302 303 304 305 306</p>
<p>I position — 401 — 402 — 403 0 position — 404 — 405 — 406</p>	<p>First pre-break auxiliary point</p>	<p>terminal</p> <p>pre-break</p> <p>I II</p> <p>401 402 403 404 405 406</p>
<p>"manual" contact open "automatic" contact close</p> <p>mechanical lock — 501 — 502 — 503 — 504 padlock — 505 — 506</p> <p>"mechanical padlock" contact open "Non mechanical padlock" contact close</p>		<p>terminal</p> <p>Auto/Manual control mode</p> <p>501 502 503 504 505 506</p>

Terminal connection diagram

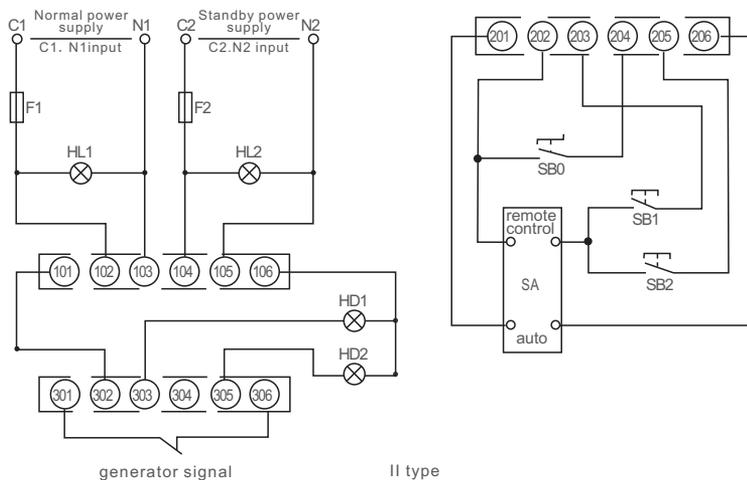
12.1 RDH5D series Main circuit connection diagram



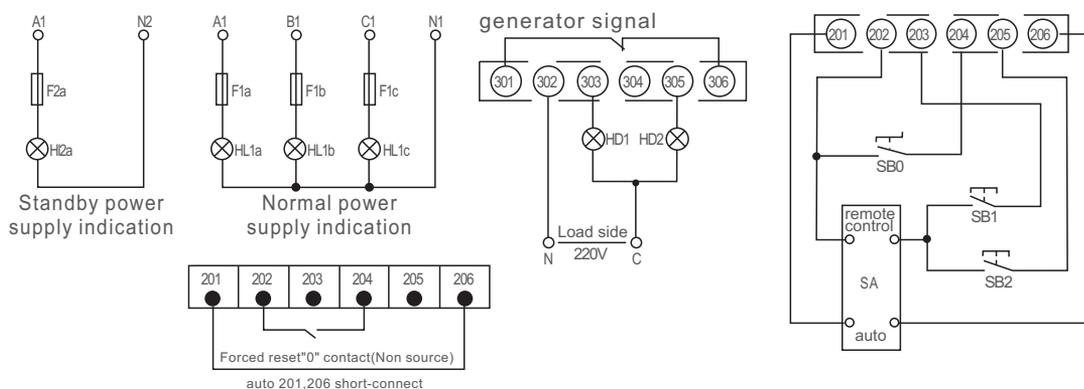
12.2 100A I type connection diagram



12.3 100A II type Automation+Remote control connection diagram



12.4 100A III type Automation+Remote control connection diagram



AUTOMATIC TRANSFER SWITCH

1. 100A and below only has I, II type switch
2. HD1-2, HL1-2 indication light can be connected according to needs.
3. Switch internal connects to Normal power supply C1.N1 and standby power supply C2,N2
4. I type (auto) switch internal, 201 and 206 terminal short-connects,so there is no 201-206 terminal.
5. II type switch 201-206 terminal can be connected according to relavent function
6. 301and 306 are the signal contacts of generator's starting.

1. 100A and below III type switch is special switch
2. III switch connects 3 phases,102 and 105 terminal can not connect power supply.
3. Switch power supply throwing instruts connect wiring according to the above fig.
4. 302 connects from load side N phase, signal light live line connects from load side C phase.
5. 301and 306 are the signal contacts of generator's starting.
6. Auto, remote control and II type are in same connection mode.

F1-2:(2A)Fuse

HL1: Normal power supply power indication

HL2: Standby power supply power indication

HD1: Normal power supply throwing indication

HD2: Standby power supply throwing indication

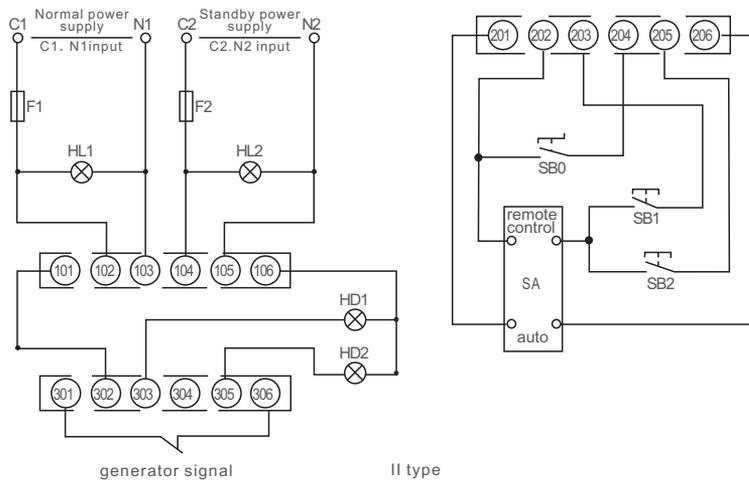
SA: Power transfer switch

SB0:Forced "0" selflock button

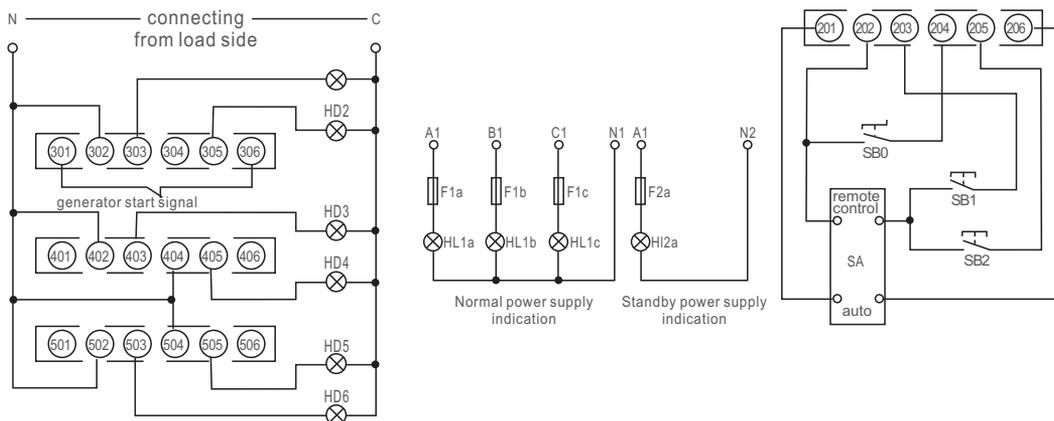
SB1:Normal power supply throwing button

SB2:Standby power supply throwing button

12.5 160A to 630A II Type Auto.+manual(remote control) connection diagram



12.6 160A to 630A III Type Auto.+manual(remote control) connection diagram



F1-2:(2A)fuse

HL1: Normal power supply power indicator

HL2: Standby power supply power indicator

1.HD1-6,HD1-2 indicator connects according to needs.

2.Only 400A and above have 401-406,501-506 terminals.

3.101 and 106 are switch output indicator power supplies, 106 is live line.

4. I type switch do not make 125A and above,only II type and III type

5. II type and III type 201-206 terminals can be connected according to relevant functions.

6. III Type connects 3 phases,102-105 do not need power,only 3poles switch 103 needs to connect the normal power supply

N1,105 connects to Standby power N2.

HD1:Normal power supply throwing indication

HD2:Standby power supply throwing indication

HD3:Normal power supply pre-breaking indication

HD4:Standby power supply pre-breaking indication

HD5:Mechanical padlock on/off indication

HD6:Electrical lock on/off indication

AS:Function transfer switch

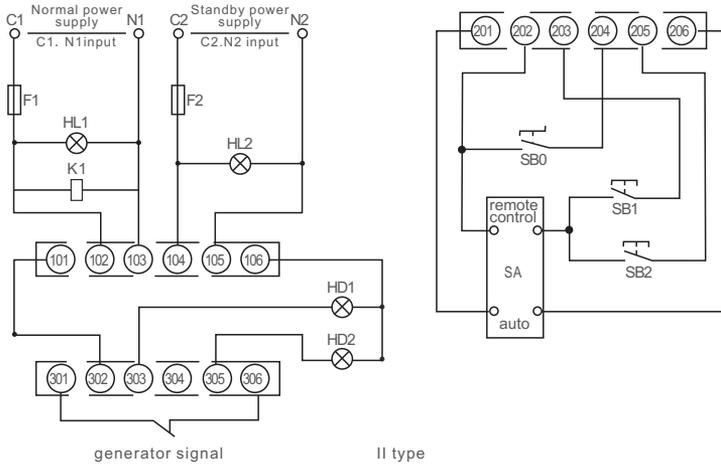
SB0:Forced reset "O" self-lock button

SB1:Normal power supply throwing button

SB2:Standby power supply throwing button

AUTOMATIC TRANSFER SWITCH

12.7 1000A to 3200A II type auto+manual connection diagram



F1-2:(2A)Fuse

HL1: Normal power supply power indication

HL2: Standby power supply power indication

HD1: Normal power supply throwing indication

HD2: Standby power supply throwing indication

HD3: Normal power supply pre-breaking indication

HD4: Standby power supply pre-breaking indication

HD5: Mechanical padlock on/off indication

HD6: Electrical lock on/off indication

K1: Middle relay

SA: Power transfer switch

SB0: Forced "0" selflock button

SB1: Normal power supply throwing button

SB2: Standby power supply throwing button

1. Only II type and III type have 1000A and above production.

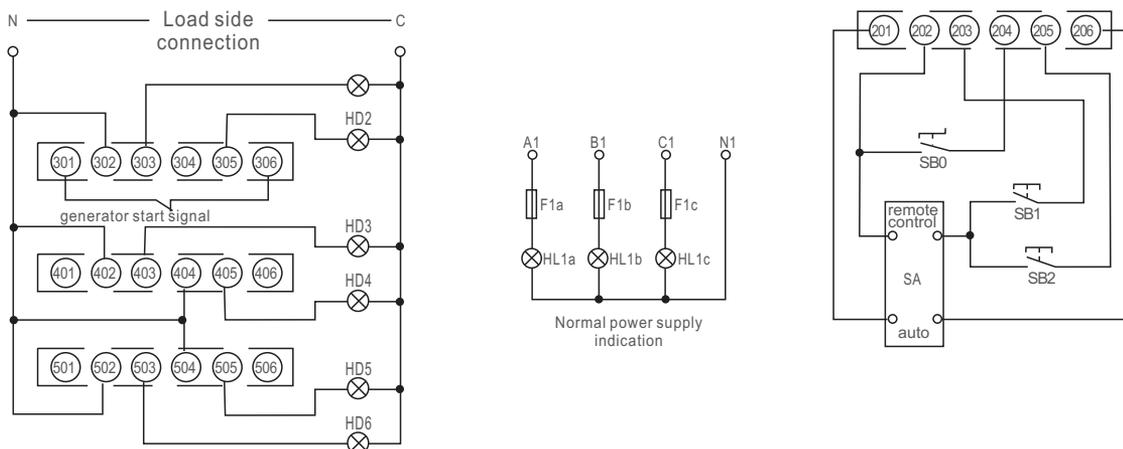
2. HD1-6, HL1-2 indicator can be connected according needs.

3. 101 and 106 are switch output indicator power supplies, 106 is live line

4. 201-206 terminal can be connected according to relevant functions.

5. K1 relay only can be used at full-automation.

12.8 1000A to 3200A III type auto+manual connection diagram



(III type)

Note:

1. III type switch connects to 3 phase power supply, 102-105 do not connect to power supply. only in the 3 poles switch, 103 connects Normal power supply N1, 105 connects to Standby power supply.
2. Other connection mode refer to 125A to 630A type.

AUTOMATIC TRANSFER SWITCH

RDQ1

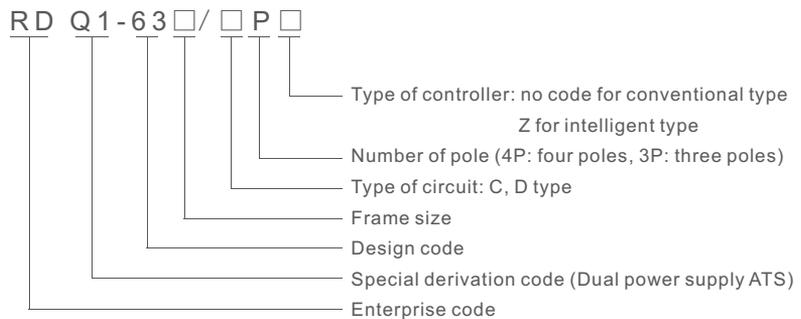
Automatic Transfer Switch



Description

RDQ1 series Dual Power Supply Auto-Transfer Switch is suitable for the power-supply system of AC 50Hz, rated operating voltage 400V, rated operating current 63 A and below. It can switch optionally between two circuit power supplies according to requirements. This product has the protective functions of over-load, short-circuit, under-voltage, meanwhile, it also has the functions of fire protection, double breaking and output the closing signal, which is especially suitable for the lighting circuit of the office building, shopping mall, bank, high-rise building that require fire protection.

Model No.



Normal operating condition and installation condition

- 3.1 Altitude of installation place does not exceed 2000m.
- 3.2 Ambient temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$, average value within 24h does not exceed $+35^{\circ}\text{C}$.
- 3.3 Atmosphere condition: The relative humidity does not exceed 50% when the highest temperature is $+40^{\circ}\text{C}$, it is allowed relatively high relative humidity at the relatively low temperature, for example, it reaches 90% when 20°C , and it should take special measurements when there occurred the condensation on the products that is due to the variation of humidity.
- 3.4 Grade of pollution: 3
- 3.5 Installation condition: it is installed at the places that without impact vibration and without rain and snow; The upper terminal connects to the power supply side, the lower terminal connects to the load side, and the gradient between the installation side and the vertical side does not exceed 5° .
- 3.6 Installation category: III
- 3.7 External magnetic field of the installation place nearby does not exceed 5 times

Technical parameter

4.1 Basic parameter of double power supply ATS to see table 1

Table 1

Product performance parameter		
Confirms to standards	IEC60947-6-1	
ATS grade CB class	CB	
Usage category	AC-33iB	
Rated operating voltage Ue	AC230V-400V	
Rated operating frequency	50Hz/60Hz	
Rated operating current Ie	6A、10A、16A、20A、25A、32A、40A、50A、63A	
Switch control voltage	Ac230 V	
Rated insulation voltage Ui	AC690V	
Transfer action time	≤3s (cannot be adjustable)	
Life	Electrical life	1500 times
	Mechanical life	6000 times
Rated short-circuit connecting capacity Icm	7.5kA	
Rated short-circuit breaking capacity Icn	5kA	

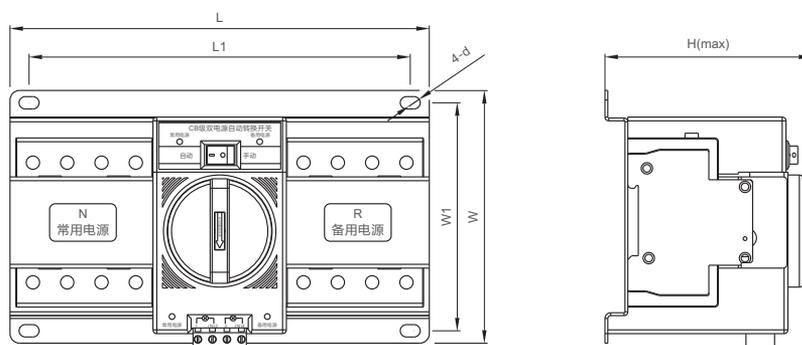
4.2 Basic parameter for the conventional type and intelligent type double power supply ATS to see table 2

Table 2

Product model	Conventional type	Intelligent type
Installation mode	Integrated type	Integrated type
Operation mode	Automatic and manual	Automatic and manual
Monitor function	Breaking phase detection	Under voltage, loss of phase and break phase detection of conventional power supply
Transfer mode	Automatic transfer and automatic recovery	Automatic transfer but does not automatic recovery
Fire protection linkage control	Non	DC-12-24V input double break (fire auto cut off function)
Display function	LED light	LED light

External and installation dimension

External and installation dimension confirm to table 3 and map 1



Map1

AUTOMATIC TRANSFER SWITCH

Table 3

Dimensions Model	External dimension			Installation dimension		
	L	W	H	L1	W1	ϕ d
Four poles	222	135	116	202	123	5
Three poles	185			165		

Installation

6.1 Conductive wire

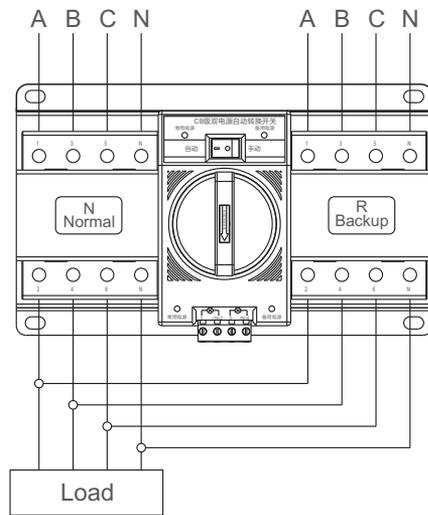
The conductive wire (cable) adopted by the double power supply is the single core PVC insulation copper wire or equal copper bar, the cross section according to table 4.

Table 2

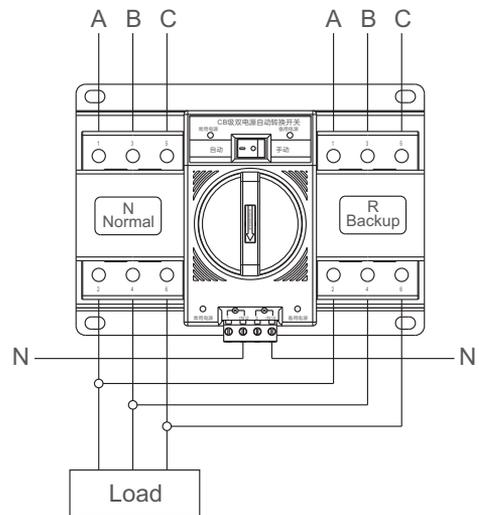
Rated current I_n (A)	6	10	16 20	25	32	40 50	63
Cross section of wire or cable mm^2	1.0	1.5	2.5	4.0	6.0	10	16

6.2 Wiring map of dual power supply ATS

6.2.1 Wiring map for the four poles of ATS to see map 2



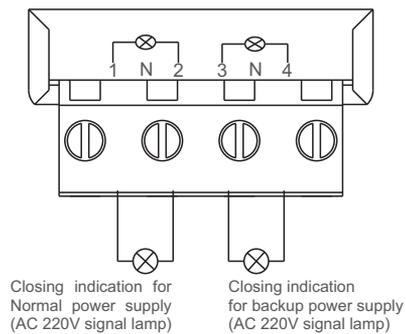
Map2



Map3

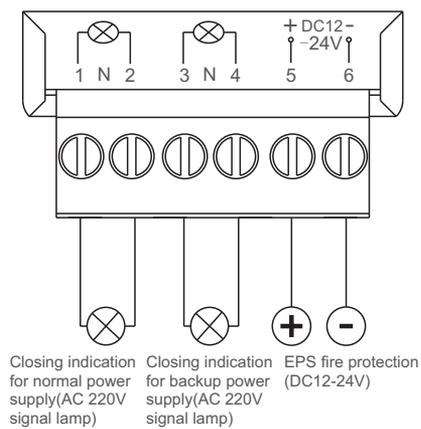
6.3 Wiring sketch map for the output terminal of ATS

6.3.1 Wiring sketch map for the output terminal of conventional type to see map 4



Map4

6.3.2 Wiring sketch map for the output terminal of intelligent type to see map 5



Map5

AUTOMATIC TRANSFER SWITCH

RDQH

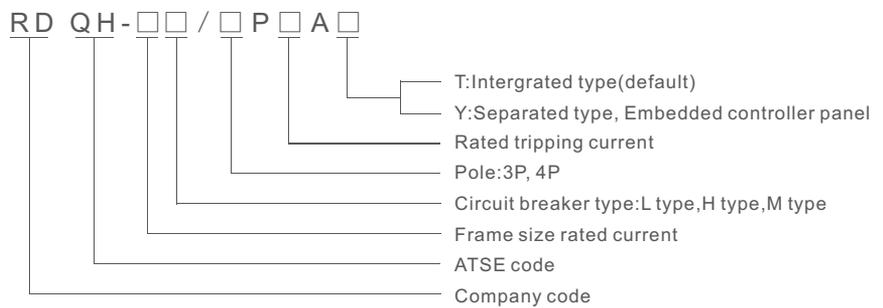
Automatic Transfer Switch



Application

RDQH automatic transfer switch is applicable for power system of AC50Hz, rated operation voltage 380V, rated operation current 10A to 1600A. It transfers circuit between two circuit power supplies according to needs. This product has protection against overload, short-circuit, under-voltage, and also has fire protection, two circuit breaks and output making signal function.

Model No.



Normal operating condition and installation condition

- 3.1 installation location altitude should not exceed 2000m.
- 3.2 ambient temperature shall not exceed +40°C, but shall not lower than 5°C. Daily average temperature shall not exceed +35°C
- 3.3 Humidity: Relative humidity is not more than 50% when temperature is +40°C, and the higher humidity is accepted if temperature is lower.
- 3.4 Pollution level: 3
- 3.5 installation location do not be influenced by weather and impact. Upper terminal connects power side, lower terminals connects load side. tilt angle with the vertical plane shall not exceed 5° .
- 3.6 Installation type: III.
- 3.7 External magnetic field of the installation place nearby does not exceed 5 times of earth magnetic field at any direction.

Technical parameter

4.1 Main technical parameter see Table 1.

Table 1

Product performance parameter					
Standards		IEC60947-6-1			
ATS grade CB class		CB			
Usage category		AC-33iB			
Rated operating voltage Ue		AC380V-400V			
Rated operating frequency		50Hz			
Switch control voltage		AC230V,AC400V			
Rated insulation voltage Ui		AC690V			
Min transfer action time		≤3s			
Life	Electrical life	< 400A	1500 times	≥400A	1000 times
	Mechanical life		4500 times		3000 times

4.2 Basic parameter for the conventional type and intelligent type double power supply ATS to see table 2

Table 2

Product model	Conventional type	Intelligent type
Installation mode	Integrated type	Integrated type
Operation mode	Automatic and manual	Automatic and manual
Monitor function	Breaking phase detection	Under voltage, loss of phase and break phase detection of conventional power supply
Transfer mode	Automatic transfer and automatic recovery	Automatic transfer but does not automatic recovery
Fire protection linkage control	Non	DC12-24V input double break (fire auto cut off function)
Display function	LED light	LED light

4.2 Specification see Table2

Table 2

Specification	Frame size	Rated operational current Ie(A)	Rated short-circuit impulse withstand voltage Uimp	Rated short-circuit breaking capacity Icn
RDQH-63	63	10、16、20、25、32、40、50、63	8kV	5kV
RDQH-100	100	32、40、50、63、80、100	8kV	10kV
RDQH-225	225	100、125、160、180、200、225	8kV	10kV
RDQH-400	400	225、250、315、350、400	8kV	10kV
RDQH-630	630	400、500、630	8kV	13kV
RDQH-800	800	630、800	10kV	16kV
RDQH-1250	1250	800、1000、1250	12kV	25kV
RDQH-1600	1600	1250、1600	12kV	25kV

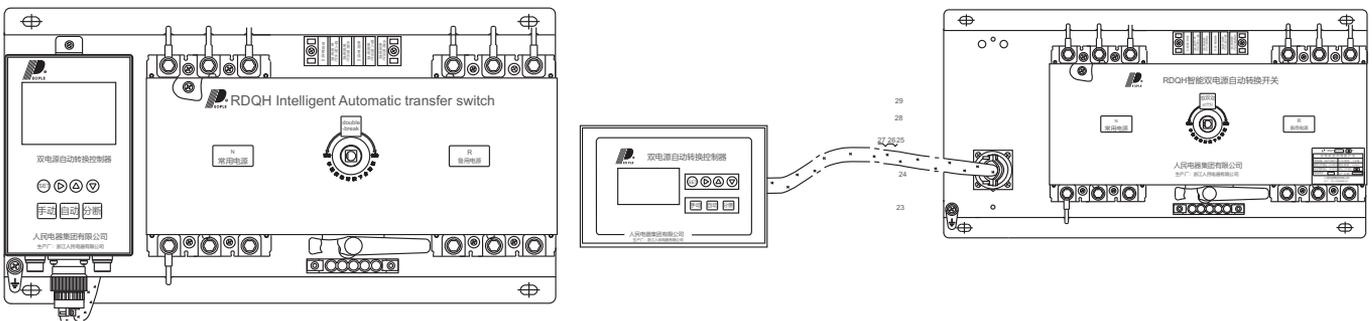
AUTOMATIC TRANSFER SWITCH

4.3 Controller function, see Table 3

Table 3

Model No.	RDQH ATSE Intelligent controller
installation type	Intergated type, separated embedded plane type
operational type	Manual, automatic, double-open
monitoring function	phase-loss, voltage-loss, undervoltage, overvoltage, manual, automatic, double-open
conversion method	Auto change and auto recovery, Auto change and no auto recovery, Mutual standby, power optimized selection
native function	fire protection breaking, generator start signal, tripping alarming
delay time of power supply switching	0s to 999s (sets by user)
double-open delay	1s to 10s (sets by user)
system type setting	1#city power 2#city power, 1#city power 2#generator power, 1#generator power 2#city power

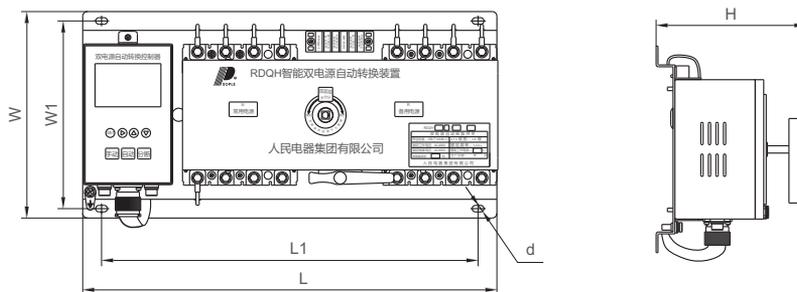
4.4 Intergated type separated type of intelligent



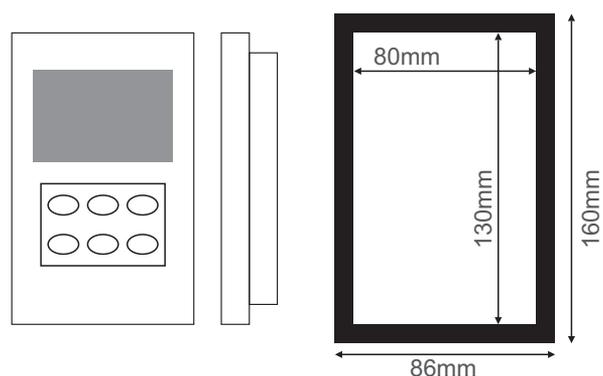
Note: RDQH ATSE, difference of Intergated type and separated type: Intergated production controller and switch body connecting together as a whole, the separated type makes the control panel be installed at the cabinet door with wire. Their controller has same size.

Appearance and installation dimension

5.1 Appearance and installation dimension



Specification	Appearance				Installation		
	Pole	L	W	H	L1	W1	φ d
RDQH-63	3P	375	215	120~130	338	195	6
	4P	400	215	120~130	364	195	6
RDQH-100	3P	410	220	120~140	370	200	6
	4P	440	220	120~140	400	200	6
RDQH-225	3P	450	220	165~180	410	200	6
	4P	485	220	165~180	445	200	6
RDQH-400	3P	560	325	250	510	305	8
	4P	610	325	250	560	305	8
RDQH-630	3P	640	325	260	600	305	8
	4P	700	325	260	650	305	8
RDQH-800	3P	670	330	260	630	305	12
	4P	790	330	260	750	305	12
RDQH-1250	3P	670	470	290	615	370	12
	4P	800	470	290	745	370	12
RDQH-1600	3P	670	470	290	615	370	12
	4P	800	470	290	745	370	12



Separated type controller plane open hole size:80mmX130mm

ISOLATING SWITCH

HL32-100(PH2-100)

Isolating Switch



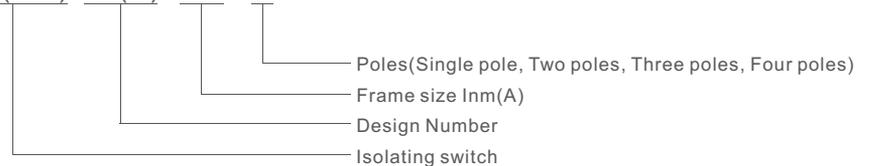
General

HL32-100(PH2-100) series isolating switch is applicable to the power distribution and control circuit with an alternating current of 50HZ/60HZ, rated voltage of 230/400V, and rated current up to 100A as master switch of terminal electrical equipment. It can be used to control various motors, small power electric appliance and illumination etc. It is widely used for industrial and mining enterprises, high buildings, commercial places, home and so on.

The product meets the standards of IEC60947.3.

Model No.

HL(PH) 32(2)-100/□



Product category

3.1 Rated current In: 32A, 63A, 100A;

3.2 Number of poles: Single pole, Two poles, Three poles, Four poles.

Technical parameter

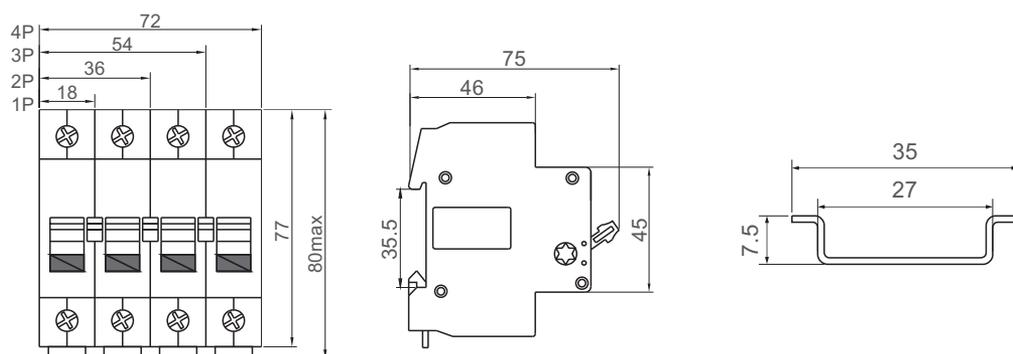
	Standard		IEC/EN 60947-3
Electrical features	Rated voltage Ue	V	230/400
	Rated current Ie	A	32, 63, 100
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage Uimp	V	4000
	Rated short-time withstand current Icw		12Ie, 1s
	Rated making and breaking capacity		3Ie, 1.05Ue, cosΦ=0.65
	Rated short circuit making capacity		20Ie, t=0.1s
	Insulation voltage Ui	V	500
	Pollution degree		2
	Use category		AC-22A
Mechanical features	Electrical life		1500
	Mechanical life		8500
	Protection degree		IP20
	Ambient temperature (with daily average ≤ 35°C)	°C	-5...+40
	Storage temperature	°C	-25...+70

	Standard		IEC/EN 60947-3
Electrical features	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/bottom for cable	mm ²	50
		AWG	18-1/0
	Terminal size top/bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2.5
In-lbs		22	
connection			From top and bottom

Main specifications

- 4.1 Rated short-time withstand current: 12I_n, electrifying time 1s;
- 4.2 Rated short-time making capacity: 20I_n, electrifying time 0.1s;
- 4.3 Rated making and breaking capacity: 1.05U_e, 3I_n, cos φ=0.65
- 4.4 Rated limited short-circuit current:20KA
- 4.5 Operating performance: No load 8500 times, On load 1500 times, 10000 in total. cos φ=0.8, Operation frequency is 120 times/hour.

Overall and mounting dimensions(mm)



ISOLATING SWITCH

RDX6SD-100

Isolating Switch



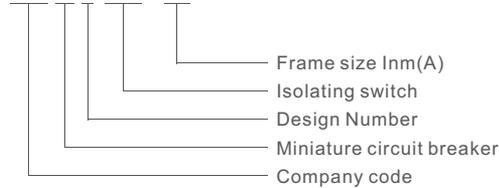
General

RDX6SD-100 series isolating switch is applicable to the circuit with an alternating current of 50HZ/60HZ, rated voltage to 400V, and rated current up to 100A for isolator or making and breaking function.

The product meets the standards of IEC60947.3.

Model No.

RDX6SD-40



Product category

3.1 Rated current In: 32A, 63A, 100A;

3.2 Number of poles: Single pole, Two poles, Three poles, Four poles.

Technical parameter

	Standard		IEC/EN 60947-3
Electrical features	Rated voltage Ue	V	230/400
	Rated current Ie	A	32, 63, 100
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage Uimp	V	4000
	Rated short-time withstand current Icw		12Ie, 1s
	Rated making and breaking capacity		3Ie, 1.05Ue, cosΦ=0.65
	Rated short circuit making capacity		20Ie, t=0.1s
	Insulation voltage Ui	V	500
	Pollution degree		2
	Use category		AC-22A
Mechanical features	Electrical life		1500
	Mechanical life		8500
	Protection degree		IP20
	Ambient temperature (with daily average ≤ 35°C)	°C	-5...+40
	Storage temperature	°C	-25...+70

	Standard		IEC/EN 60947-3
Electrical features	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/bottom for cable	mm ²	50
		AWG	18-1/0
	Terminal size top/bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2.5
In-lbs		22	
connection			From top and bottom

Main specifications

- 4.1 Rated short-time withstand current: 12I_n, electrifying time 1s;
- 4.2 Rated short-time making capacity: 20I_n, electrifying time 0.1s;
- 4.3 Rated making and breaking capacity: 1.05U_e, 3I_n, cos φ=0.65
- 4.4 Rated limited short-circuit current:20KA
- 4.5 Operating performance: No load 8500 times, On load 1500 times, 10000 in total. cos φ=0.8, Operation frequency is 120 times/hour.

Overall and mounting dimensions(mm)

