## **General**

### 1.1 Function

Control electric circuits.

Protect people against indirect contacts and additional protection against direct contacts.

Protect installations against fire hazard due to insulation faults. Residual current circuit breakers are used in housing, tertiary sector and industry

#### 1.2 Selection

Detectable wave form

B class

Tripping is ensured for sinusoidal AC residual currents pulsed DCresidual currents, alternating residual sinusoidal currents up to 1000Hz, pulsating direct residual currents and for smooth directresidual currents, whether applied suddenly or increasing slowly.

Tripping sensitivity

30mA -additional protection against direct contact.

Tripping time

Instantaneous

It ensures instantaneous tripping (without time-delay).

### **Technical Data**



Electrical features			
Type(ware form of the earth leakage sensed)	В		
Rated current	16A、25A、40A、63A		
Poles	2P 4P		
Number of poles versus modules	2P= 4mod;4P=4 mod		
Rated voltage Ue	2P:230V~ 4P:400V~		
Insulation voltage Ui	500V		
Rated frequency	50/60Hz		
Rated sensitivity I△n	0.03A 0.1A 0.3A		
Rated residual making and breaking capacity I m	500(In=25-40A) 630(In=63A)		
Short-circuit current Inc=I△c	10000A		
SCPD fuse	10000		
Break time under I^n	≤0.1S		
Rated impulse withstand voltage(1.2/50)Uimp	6000V		
Dielectric test voltage at and ind.Freq.for 1min	2.5kV		
Electrical life and Mechanical life	4000		
Pollution degree	2		
Installation			
Fault current indicator	NO		
Protection degree	IP20		
Ambient temperature(with daily average≤35°C)	-5~+40℃		
Storage temperature	-25+70℃		
Terminal connection type	Cable/U-type busbar/Pin -type busbar		
Terminal size top/bottom for cable	25mm² 18-3		
Tightening torque	3.5*N m		
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device		
Connection	From top		

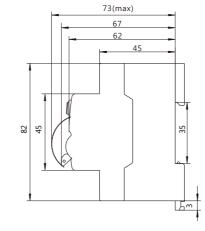
# **Detection Waveform Type and Classification**

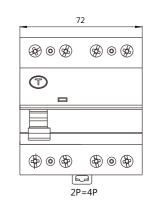
		AC Type	А Туре	A-SI Type	В Туре	
Waveform definition	Waveform	~	≋	$\simeq$	≈	Tripping current
Sinusoidal exchange	$\sim$	✓	<b>✓</b>	<b>✓</b>	✓	0.5~1 I△n
Pulsating half wave	11	х	<b>✓</b>	<b>✓</b>	<b>✓</b>	0.5 ~1. 4 I△n
Pulsating Half wave + diret current (6mA)	<u></u>	х	<b>/</b>	<b>/</b>	<b>/</b>	max1.4I^n+6mA
Pulsating Half wave + diret current (10mA)	<u>~~</u>	х	х	<b>✓</b>	<b>~</b>	max1.4I△n+10mA
High frequency (up to 1KHz)		Х	Х	Х	<b>✓</b>	150Hz,0.5 ~2. 4 I△n
		х	x	x	<b>/</b>	400Hz,0.5∼6 I△n
		Х	х	Х	<b>✓</b>	1000Hz,1~14 I△n
Two phase rectified full wave	~~	Х	Х	Х	х	0.5~2 I△n
Three phase rectified full wave	~~~					
Direct current						

## Connection

Rated current	Nominal Section Area of Copper Wire(mm²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

## **Mounting & dimension**





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