



NRE8 Series
Electronic Overload Relay

User Instruction

1 Use Purpose

NRE8 electronic overload relay (hereinafter referred to as relay) is applicable to circuits with frequency of AC 50Hz or 60Hz, rated operating voltage up to 690V and current from 0.6 to 100A. It is used for overload protection and phase-failure protection of long-term operating or intermittent operating AC motor.

2 Key Technical Parameters

Table 1 Environmental conditions and technical parameters of main circuit

Environmental conditions	
Ambient temp. (°C)	-5°C~+40°C, average temperature should not exceed +35°C within 24h
Hot and humid atmospheric conditions	Relative humidity should not exceed 50% at +40°C; up to 90% at +20°C;
Altitude	No influence below 2000m
Pollution class/installation category	Class 3/III

Technical parameters of main circuit

No.	Model	Frame size rated current A	Rated current A	Adjustment range of setting current A	Fuse gG Amax
1	NRE8-25	25	1.2	0.6~1.2	4
2			2.4	1.2~2.4	6
3			4	2~4	10
4			8	4~8	16
5			10	5~10	20
6			12	7~12	25
7			20	10~20	40
8			25	20~25	50

No.	Model	Frame size rated current A	Rated current A	Adjustment range of setting current A	Fuse gG Amax
9	NRE8-25	25	32	22~32	80
10	NRE8-38	38	1.2	0.6~1.2	4
11			2.4	1.2~2.4	6
12			4	2~4	10
13			8	4~8	16
14			10	5~10	20
15			12	7~12	25
16			20	10~20	40
17			38	19~38	80
18	NRE8-40	40	4	2~4	10
19			8	4~8	16
20			10	5~10	20
21			20	10~20	40
22			40	20~40	80
23	NRE8-100	100	65	30~65	160
24			100	50~100	200

Table 2 Technical parameters of auxiliary circuit

Application category	AC-15		DC-13
Rated operating voltage V	230	400	220
Rated operating current A	2.5	1.5	0.2
Conventional thermal current A	5		

Unit: mm

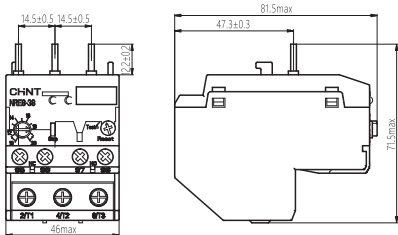


Figure 4 Overall and installation dimensions of NRE8-38

Unit: mm

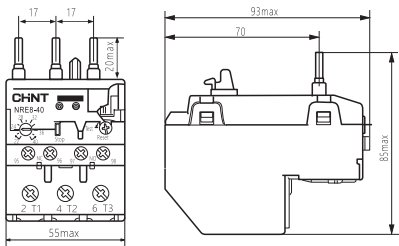


Figure 5 Overall and installation dimensions of NRE8-40