Electronic overload relays

Description

- Wide and adjustable current range
- Adjustable trip time (trip class 5-10-15-20-30)
- Designed suitable for use with contactors
  Directly mountable on the CGC-9, 12, 18, 22 contactors
  Separate mount versions are also available
  Mounting on 35mm DIN rail is possible by optional base.
- 1NO+1NC trip contacts
- Manual reset as standard (Automatic reset optional)

Extended protective functions

Number of sensors	2CT	3CT	3CT
Types (CGE22-☐)	(-2P, -2T, -2S)	(-3P, -3T, -3S)	(-3PR, -3TR, -3SR)
Functions Overcurrent	✓	✓	✓
Phase loss	✓	✓	✓
Locked rotor	✓	✓	✓
Phase unbalance		✓	✓
Phase reversed			✓

Selection

Mount/Connection	Sensor	Setting range	Catalog No.
Directly on a contactor	2-sensor (2 CT)	0.3 - 1.5A	CGE22 - 2P - 1.5AN
		1 - 5A	CGE22 - 2P - 5AN
		4.4 - 22A	CGE22 - 2P - 22AN
	3-sensor (3 CT)	0.3 - 1.5A	CGE22 - 3P - 1.5AN
		1 - 5A	CGE22 - 3P - 5AN
		4.4 - 22A	CGE22 - 3P - 22AN
	3-sensor Reverse phase detection	0.3 - 1.5A	CGE22 - 3PR - 1.5AN
		1 - 5A	CGE22 - 3PR - 5AN
		4.4 - 22A	CGE22 - 3PR - 22AN
Separate mount ① **Cable connection with a screw ②**	2-sensor (2 CT)	0.3 - 1.5A	CGE22 - 2S - 1.5A
		1 - 5A	CGE22 - 2S - 5A
		4.4 - 22A	CGE22 - 2S - 22A
	3-sensor (3 CT)	0.3 - 1.5A	CGE22 - 3S - 1.5A
		1 - 5A	CGE22 - 3S - 5A
		4.4 - 22A	CGE22 - 3S - 22A
	3-sensor Reverse phase detection	0.3 - 1.5A	CGE22 - 3SR - 1.5A
		1 - 5A	CGE22 - 3SR - 5A
		4.4 - 22A	CGE22 - 3SR - 22A
Separate mount ① **Connection without a screw ②** - cables pass through CT holes	2-sensor (2 CT)	0.3 - 1.5A	CGE22 - 2T - 1.5A
		1 - 5A	CGE22 - 2T - 5A
		4.4 - 22A	CGE22 - 2T - 22A
	3-sensor (3 CT)	0.3 - 1.5A	CGE22 - 3T - 1.5A
		1 - 5A	CGE22 - 3T - 5A
		4.4 - 22A	CGE22 - 3T - 22A
	3-sensor Reverse phase detection	0.3 - 1.5A	CGE22 - 3TR - 1.5A
		1 - 5A	CGE22 - 3TR - 5A
		4.4 - 22A	CGE22 - 3TR - 22A

Ordering information

Specify catalog number

Certificate
CE, ULcUL

Front face configuration

Current setting	LED indicator	Test/Reset button	Trip time setting
0.1 - 1.5A	Operation status indication		- 0 to 30 sec
1 - 5A	- Normal operating		- Set time is the trip time
4.4 - 22A	- Overload		at 6 x set current
	- Phase unbalance		
	Trip cause indication		
	- Overcurrent		
	- Phase loss		
	- Reverse phase		

① To mount on 35mm DIN rail use the optional base
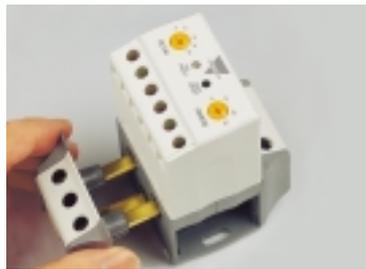
② Cable connection part can be modified between screw connection and passing CT hole
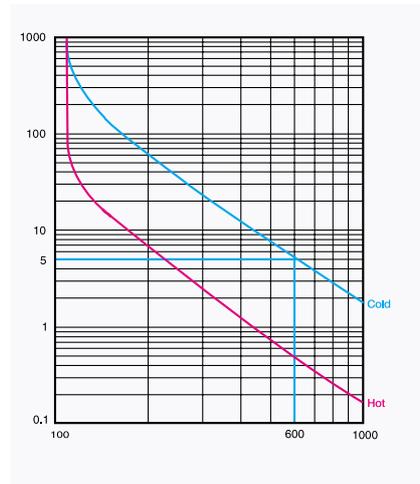
Technical information

Relay control voltage	100 to 260V AC 50/60Hz
Auxiliary contact	3A/250VAC at resistive load
	1NO(97-98) + 1NC(95-96)
Setting tolerance	Current ± 5%
	Time ± 5% (or ± 0.5sec)
Insulation resistance	Min 100 M Ω at 500V DC
Impulse withstand voltage	1.2x50 μs 5kV (IEC1000-4-5)
Fast transient burst	2kV/5min (IEC1000-4-4)
Ambient temperature	-25 to 70℃ for operation
	-30 to 80℃ for storage
Humidity	30 to 90% RH

For more information

CARLO GAVAZZI

CGE
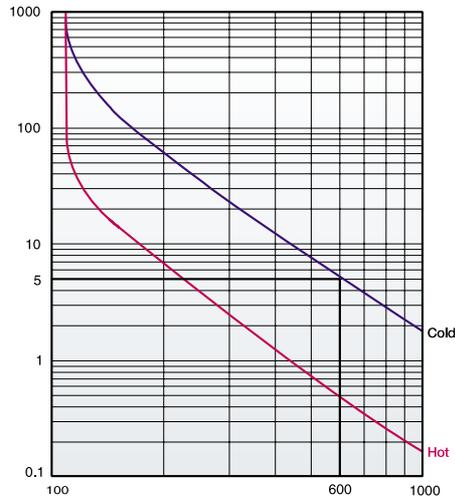
Trip class 5

Trip class 10
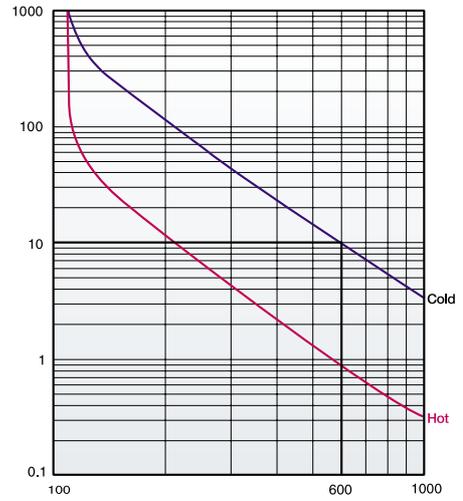
Trip class 15
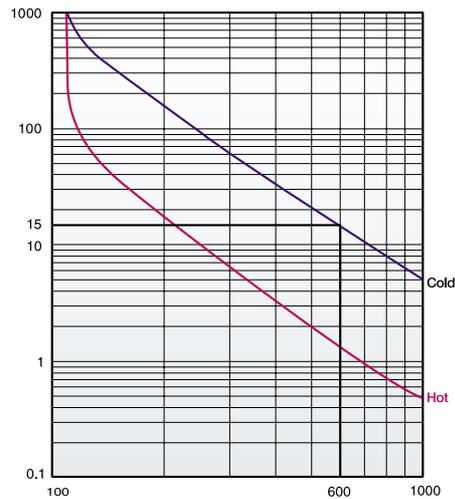
### Trip class 20
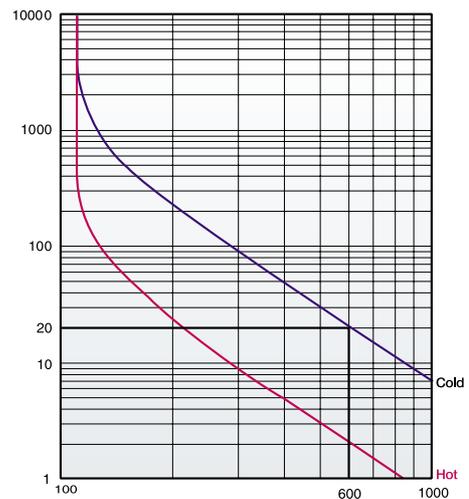
Trip class 30
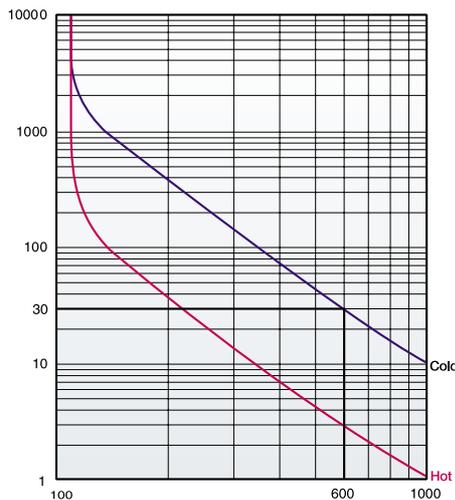
Dimensions

Electronic Overload Relays
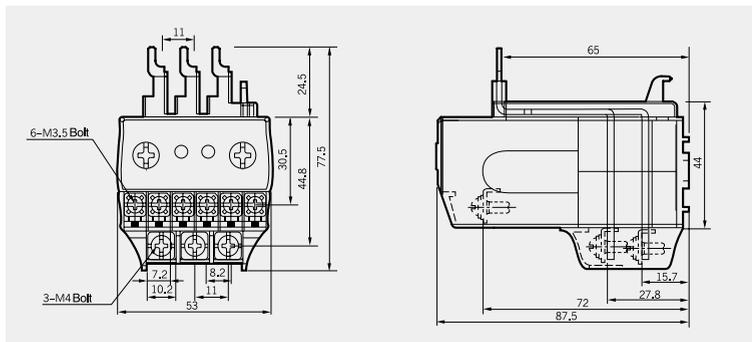
Terminal configuration : See Fig. 1 on the next page

0.18kg
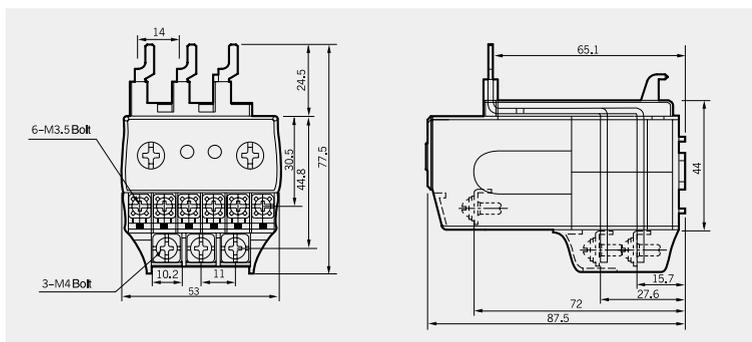
Terminal configuration : See Fig. 1 on the next page

0.20kg/0.22kg

(Mounting adapter)
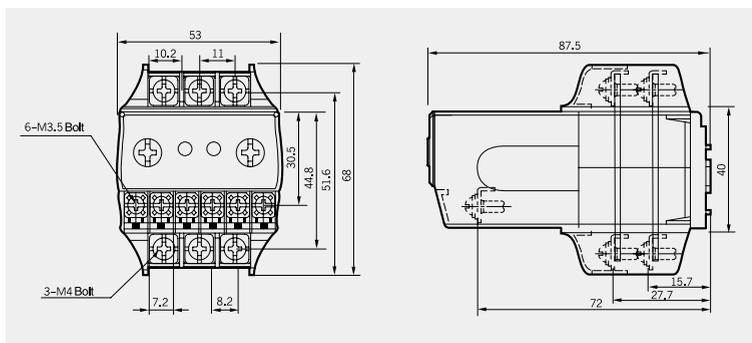
Terminal configuration : See Fig. 2 on the next page

0.19kg/0.21kg

(Mounting adapter)
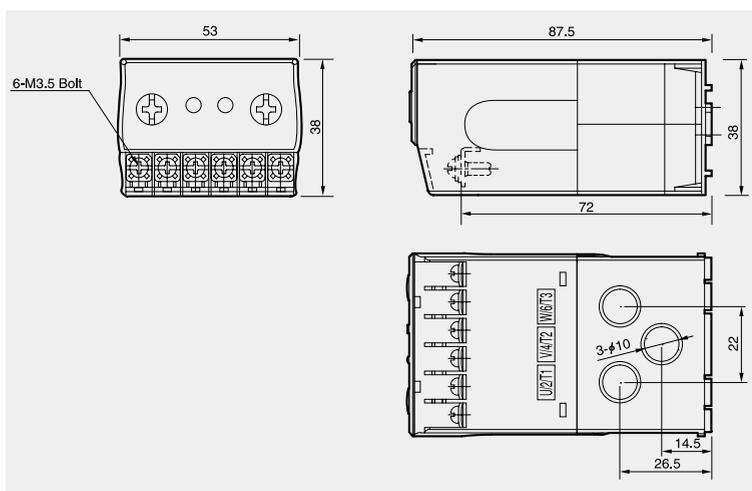
Terminal configuration : See Fig. 3 on the next page

0.14kg/0.16kg

CGE80-2S
CGE80-3S
CGE80-3SR
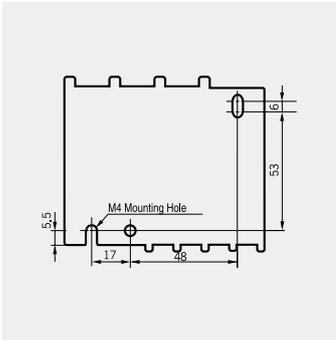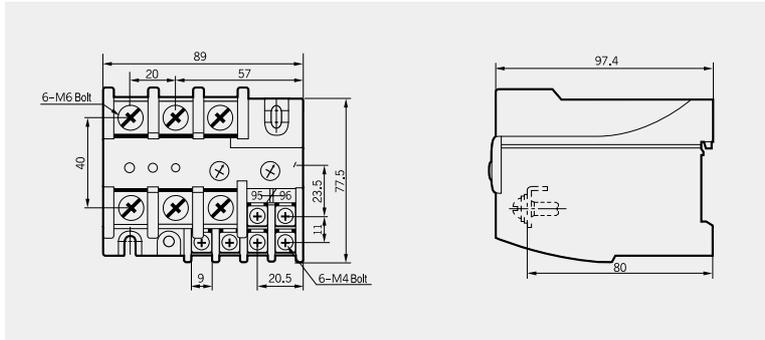
Terminal configuration : See Fig. 2   0.42kg/0.46kg

Terminal configuration

Fig. 1

R/1/L1	S/3/L2	T/5/L3

A1	A2	95	96	97	98

U/2/T1	V/4/T2	W/6/T3

Fig. 2

A1	A2	95	96	97	98

Fig. 3
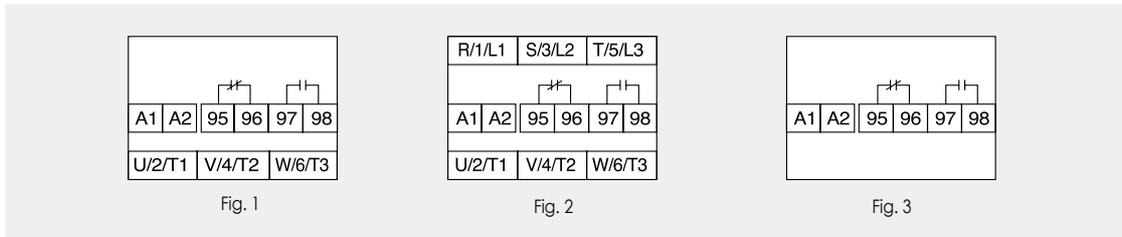
Circuit diagram
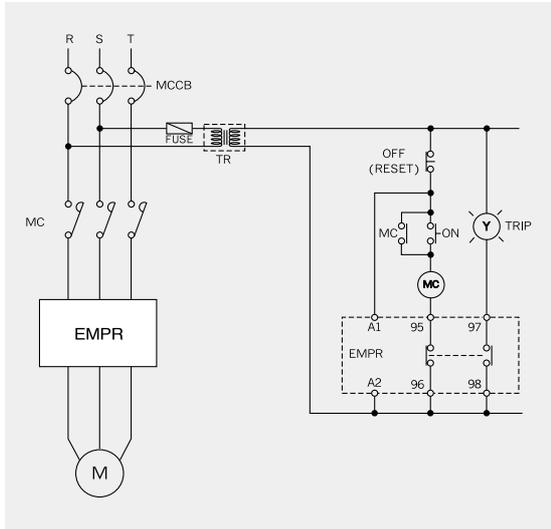
Without additional CTs
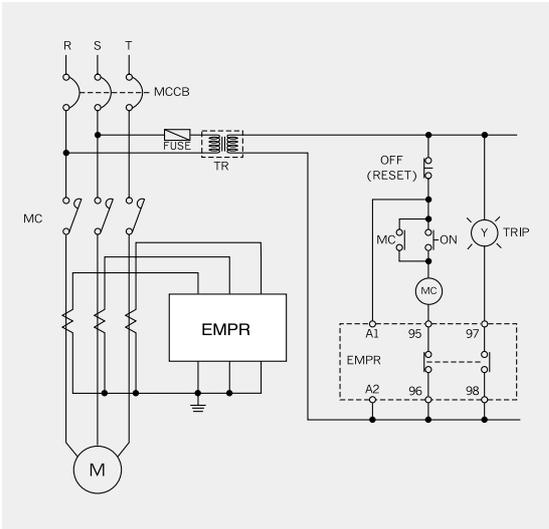
In case of using additional CTs