

Electronic overload relays

40A



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-32, 40 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 (CGE40- ...)		(-2P, -2T, -2S)	(-3P, -3T, -3S)	(-3PR, -3TR, -3SR)
Functions	Overcurrent	✓	✓	✓
	Phase loss	✓	✓	✓
	Locked rotor	✓	✓	✓
	Phase unbalance		✓	✓
	Phase reversed			✓

Selection

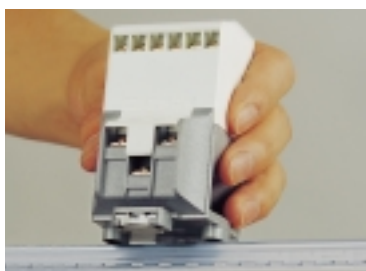
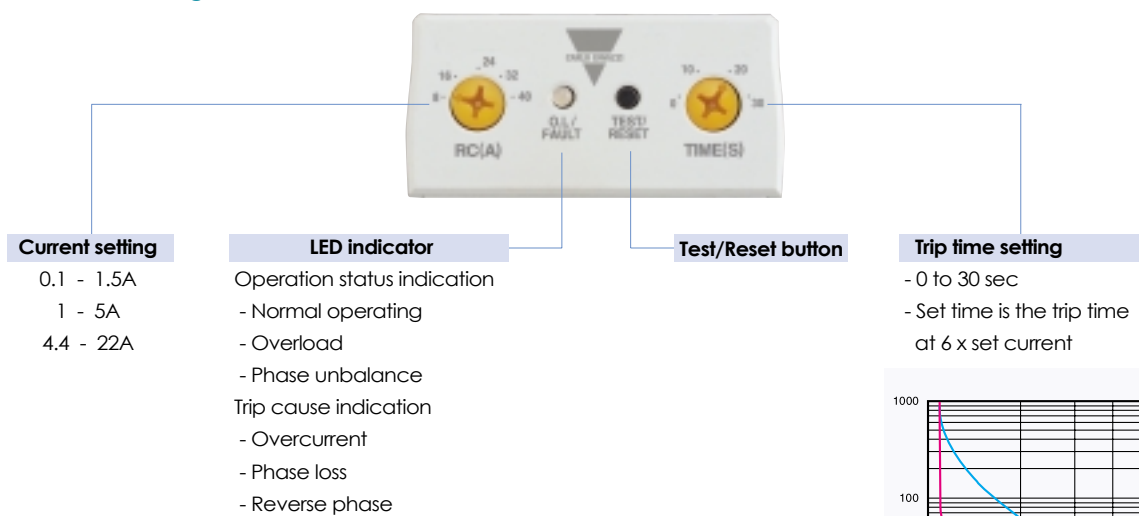
Mount/Connection	Sensor	Setting range	Catalog No.
Directly on a contactor	2-sensor (2 CT)	4 - 20A 8 - 40A	CGE40-2P - 20AN CGE40-2P - 40AN
	3-sensor (3 CT)	4 - 20A 8 - 40A	CGE40-3P - 20AN CGE40-3P - 40AN
	3-sensor Reverse phase detection	4 - 20A 8 - 40A	CGE40-3PR - 20AN CGE40-3PR - 40AN
	2-sensor (2 CT)	4 - 20A 8 - 40A	CGE40-2S - 20A CGE40-2S - 40A
	3-sensor (3 CT)	4 - 20A 8 - 40A	CGE40-3S - 20A CGE40-3S - 40A
	3-sensor Reverse phase detection	4 - 20A 8 - 40A	CGE40-3SR - 20A CGE40-3SR - 40A
Separate mount ①	2-sensor (2 CT)	4 - 20A 8 - 40A	CGE40-2T - 20A CGE40-2T - 40A
Cable connection with a screw ②	3-sensor (3 CT)	4 - 20A 8 - 40A	CGE40-3T - 20A CGE40-3T - 40A
	3-sensor Reverse phase detection	4 - 20A 8 - 40A	CGE40-3TR - 20A CGE40-3TR - 40A
	3-sensor Reverse phase detection	4 - 20A 8 - 40A	CGE40-3SR - 20A CGE40-3SR - 40A
Separate mount ①	2-sensor (2 CT)	4 - 20A 8 - 40A	CGE40-2T - 20A CGE40-2T - 40A
Connection without a screw ②	3-sensor (3 CT)	4 - 20A 8 - 40A	CGE40-3T - 20A CGE40-3T - 40A
	3-sensor Reverse phase detection	4 - 20A 8 - 40A	CGE40-3TR - 20A CGE40-3TR - 40A
	3-sensor Reverse phase detection	4 - 20A 8 - 40A	CGE40-3SR - 20A CGE40-3SR - 40A

Certificate
CE, ULcUL

Ordering information

Specify catalog number

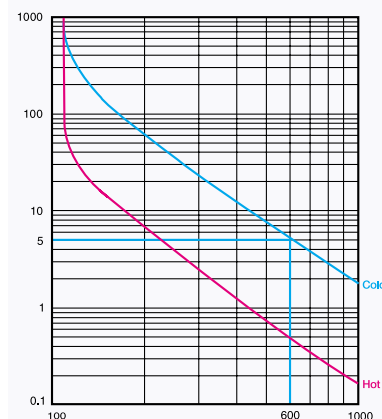
Front face configuration



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 $\pm 5\%$ Time $\pm 5\%$ (or $\pm 0.5\text{sec}$)
Insulation resistance	Min 100 $\text{M}\Omega$ 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 $^{\circ}\text{C}$ for operation -30 to 80 $^{\circ}\text{C}$ for storage
Humidity	30 to 90% RH

For more information

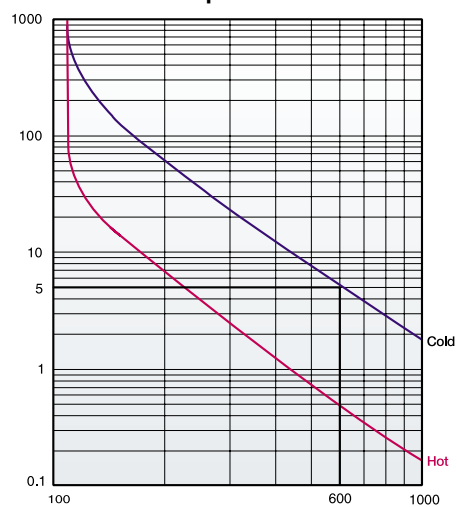
Drawings	➔ page 169
Connections	➔ page 170
Contactors	➔ page 40
Starters	➔ page 81
Bimetallic overload relay	➔ page 65
Operating curves	➔ page 137

Trip curves for electronic overload relays

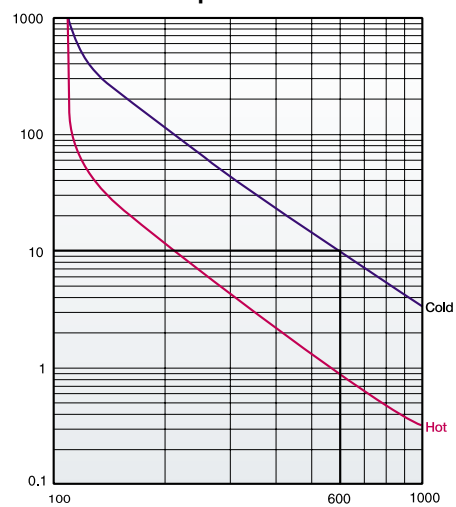


CGE

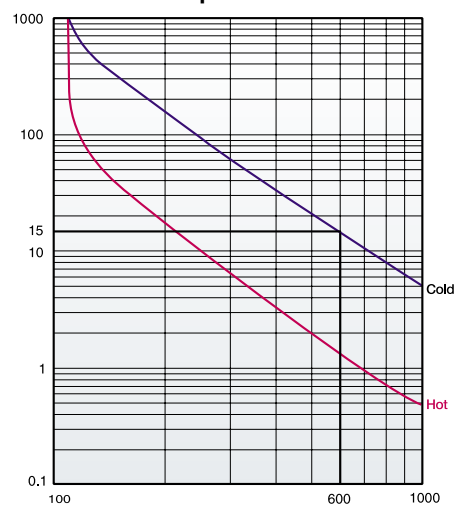
Trip class 5



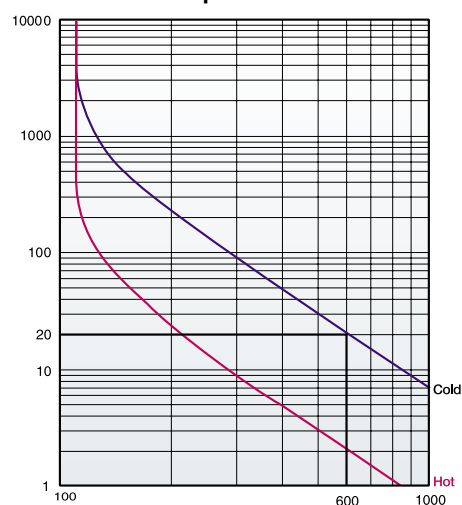
Trip class 10



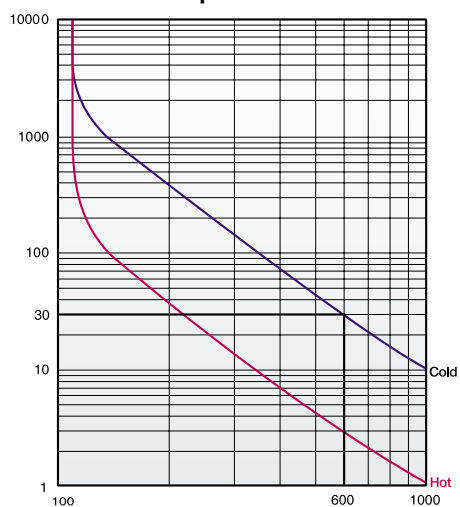
Trip class 15



Trip class 20



Trip class 30



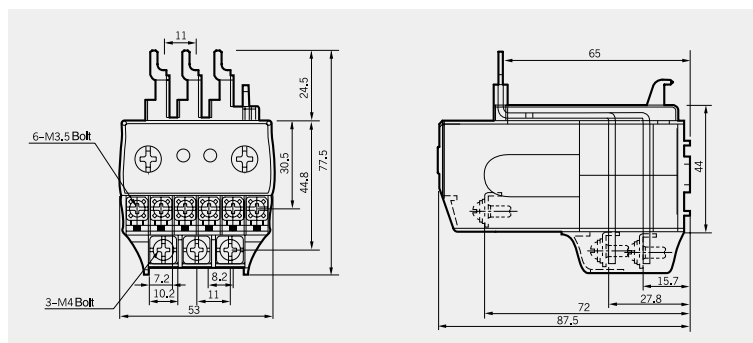
Dimensions

Electronic Overload Relays

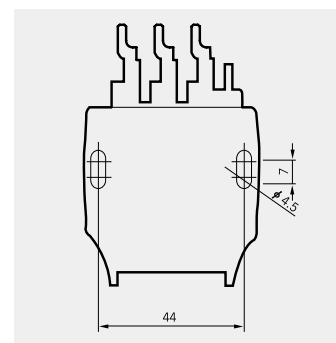
CGE22-2P

CGE22-3P

CGE22-3PR



Terminal configuration : See Fig. 1 on the next page

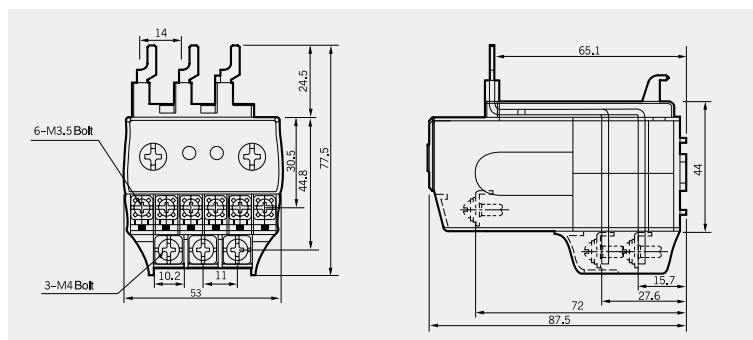


0.18kg

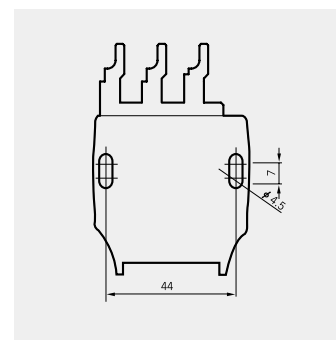
CGE40-2P

CGE40-3P

CGE40-3PR



Terminal configuration : See Fig. 1 on the next page



0.20kg/0.22kg

CGE22-2S

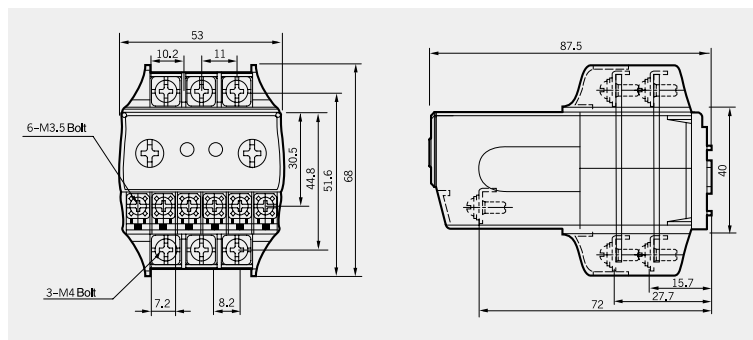
CGE22-3S

CGE22-3SR

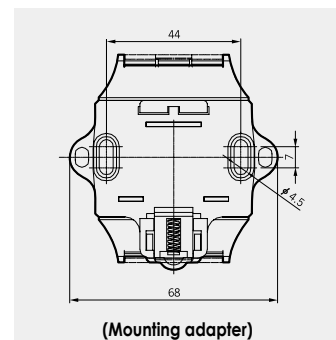
CGE40-2S

CGE40-3S

CGE40-3SR



Terminal configuration : See Fig. 2 on the next page



0.19kg/0.21kg

CGE22-2T

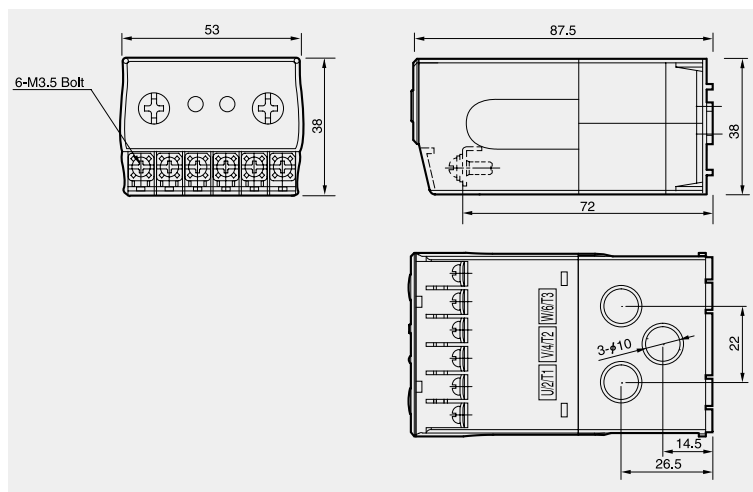
CGE22-3T

CGE22-3TR

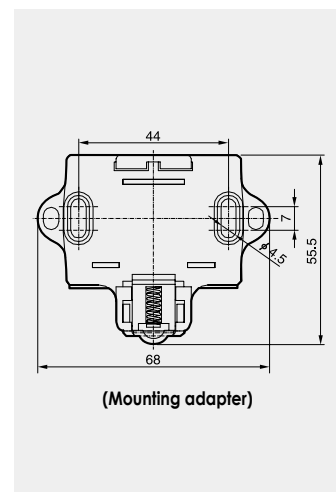
CGE40-2T

CGE40-3T

CGE40-3TR



Terminal configuration : See Fig. 3 on the next page

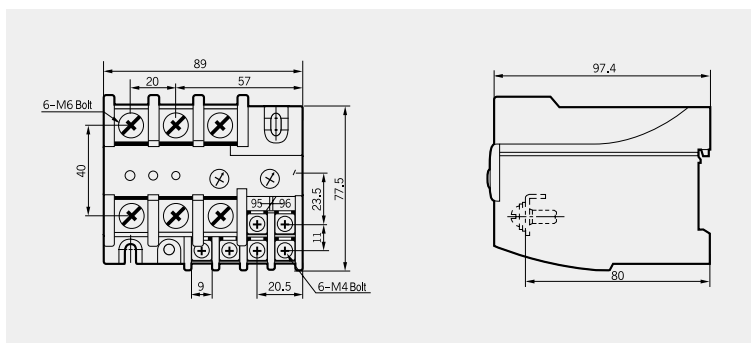


0.14kg/0.16kg

CGE80-2S

CGE80-3S

CGE80-3SR



Terminal configuration : See Fig. 2

0.42kg/0.46kg

Terminal configuration

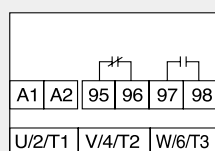


Fig. 1

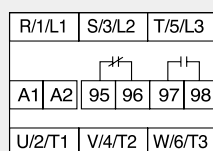


Fig. 2

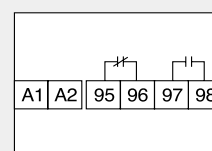
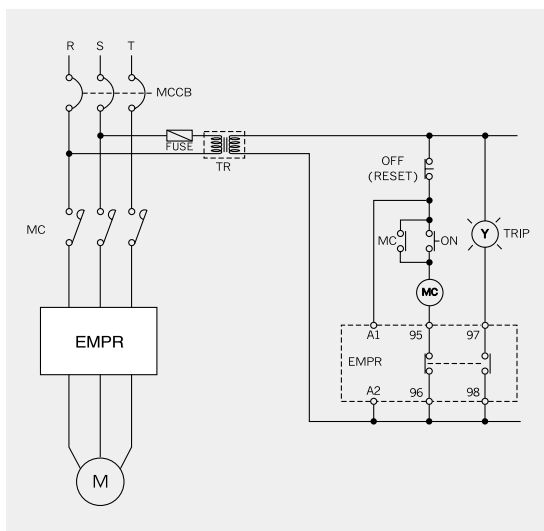
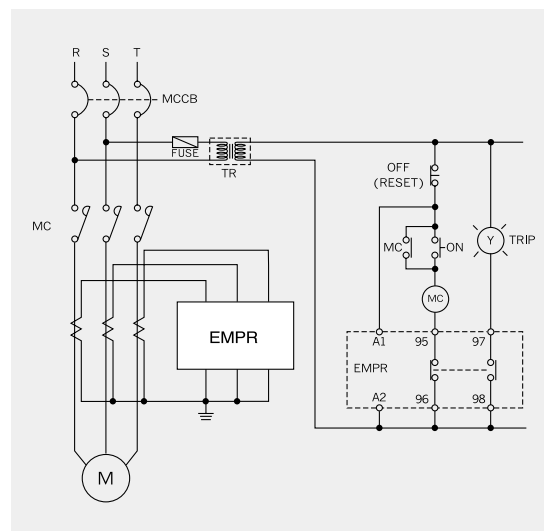


Fig. 3

Circuit diagram



Without additional CTs



In case of using additional CTs