

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

Functions	Number of sensors	2CT	3CT	3CT
	Types (CGE40- ...)	(-2P, -2T, -2S)	(-3P, -3T, -3S)	(-3PR, -3TR, -3SR)
Overcurrent		✓	✓	✓
Phase loss		✓	✓	✓
Locked rotor		✓	✓	✓
Phase unbalance			✓	✓
Phase reversed				✓

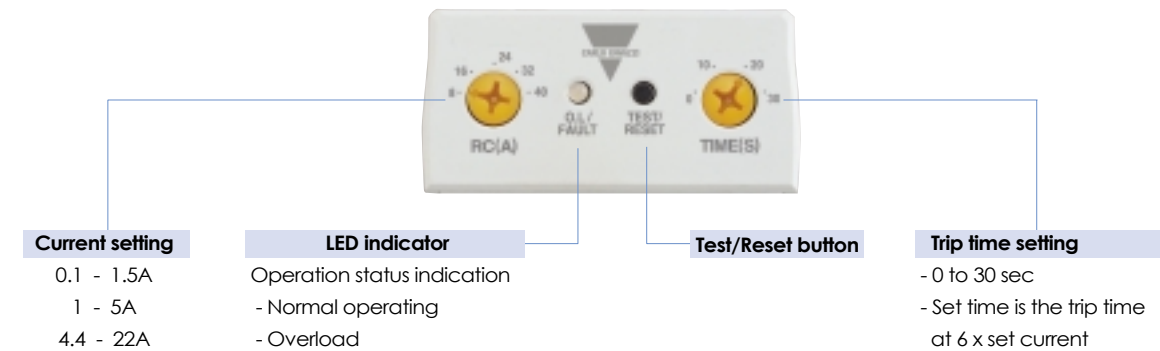
Selection

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

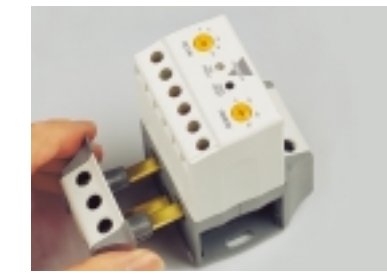
Certificate CE, ULcUL

Ordering information Specify catalog number

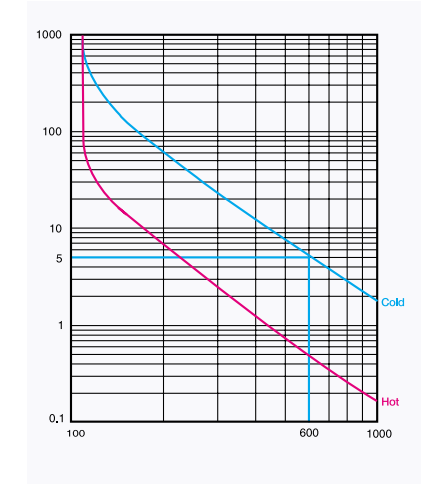
Front face configuration



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 ± 5% Time ± 5% (or ± 0.5sec)
Insulation resistance	Min 100 MΩ at 500V DC
Impulse withstand voltage	1.2x50μs 5kV (IEC1000-4-5)
Fast transient burst	2kV/5min (IEC1000-4-4)
Ambient temperature	-25 to 70 °C for operation -30 to 80 °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

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CARLO GAVAZZI



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Locked rotor		✓	✓	✓
Phase unbalance			✓	✓
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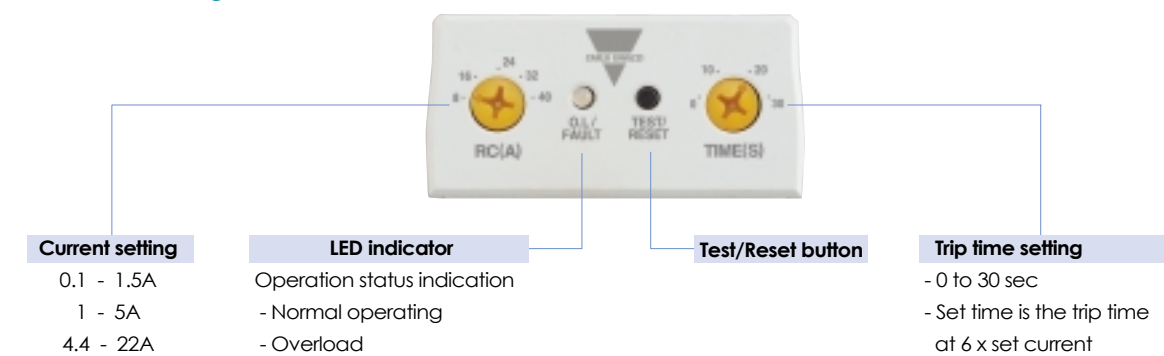
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		8 - 40A	CGE40-2P · 40	
	3-sensor (3 CT)	4 - 20A	CGE40-3P · 20	
		8 - 40A	CGE40-3P · 40	
	3-sensor Reverse phase detection	4 - 20A	CGE40-3PR · 20	
		8 - 40A	CGE40-3PR · 40	
Separate mount ①	2-sensor (2 CT)	4 - 20A	CGE40-2S · 20	
		8 - 40A	CGE40-2S · 40	
Cable connection with a screw ②	3-sensor (3 CT)	4 - 20A	CGE40-3S · 20	
		8 - 40A	CGE40-3S · 40	
	3-sensor Reverse phase detection	4 - 20A	CGE40-3SR · 20	
		8 - 40A	CGE40-3SR · 40	
Separate mount ①	2-sensor (2 CT)	4 - 20A	CGE40-2T · 20	
		8 - 40A	CGE40-2T · 40	
Connection without a screw ②	3-sensor (3 CT)	4 - 20A	CGE40-3T · 20	
		8 - 40A	CGE40-3T · 40	
	- cables pass through CT holes	3-sensor	4 - 20A	CGE40-3TR · 20
		Reverse phase detection	8 - 40A	CGE40-3TR · 40

Certificate
CE, ULcUL

Ordering information
Specify catalog number

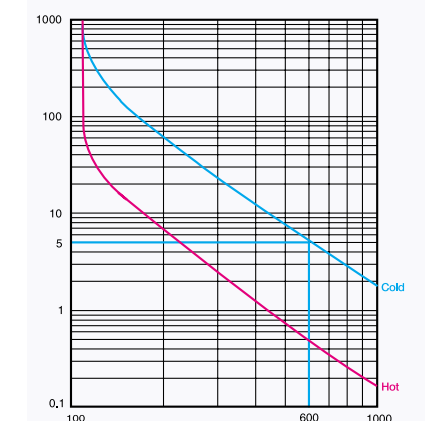
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For more information

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Contactors	→ page 40
Starters	→ page 81
Bimetallic overload relay	→ page 65
Operating curves	→ page 137

Technical informations

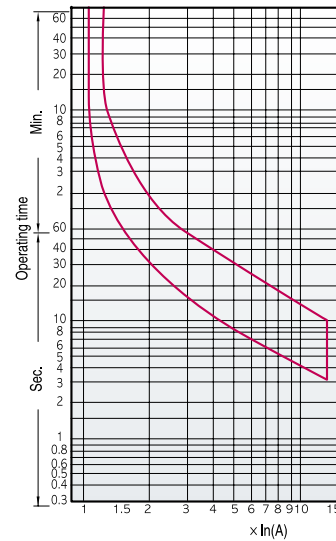
Trip curves for thermal overload relays, Class 20

Trip curves for electronic overload relays



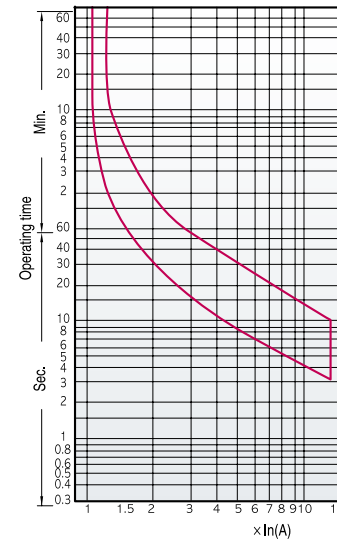
CGT-22/L

Tripping characteristics



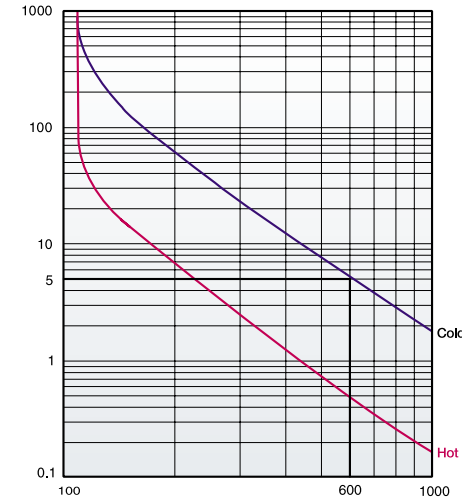
CGT-40/L

Tripping characteristics

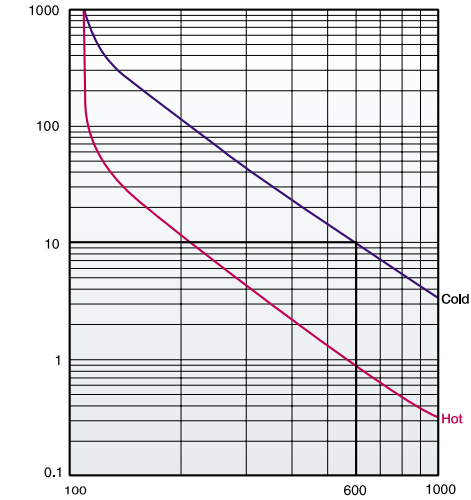


CGE

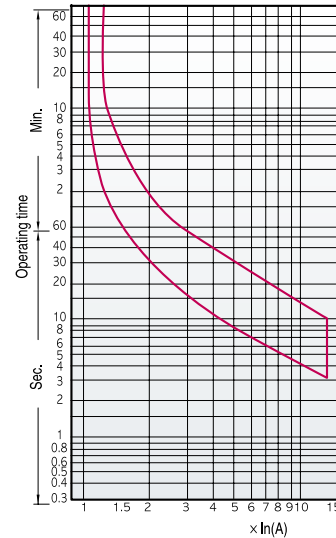
Trip class 5



Trip class 10

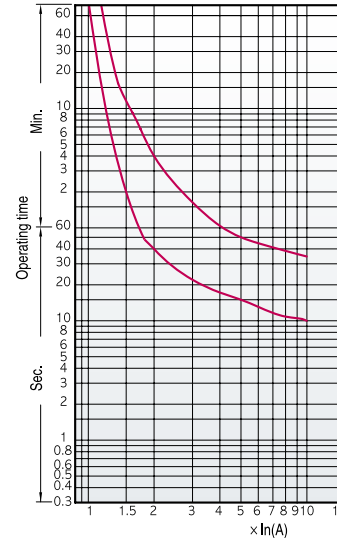


CGT-85/L

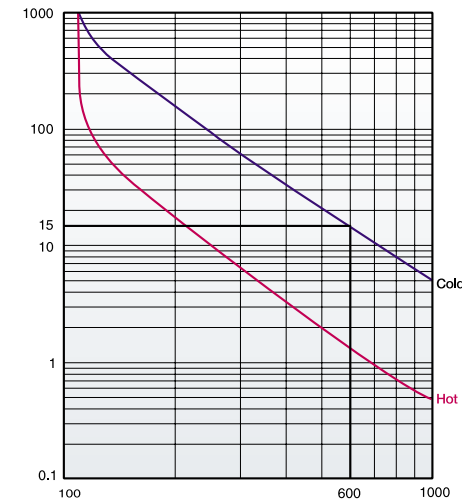


CGT-100/L

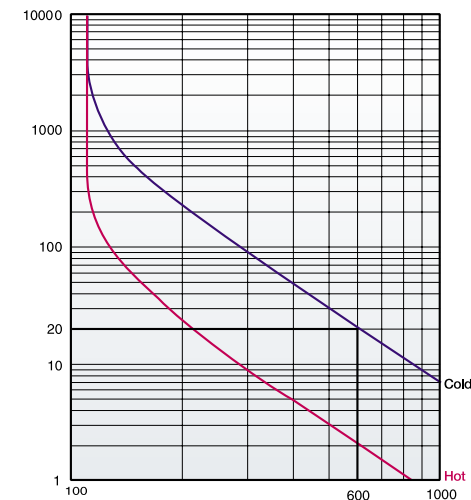
CGT-150/L



Trip class 15

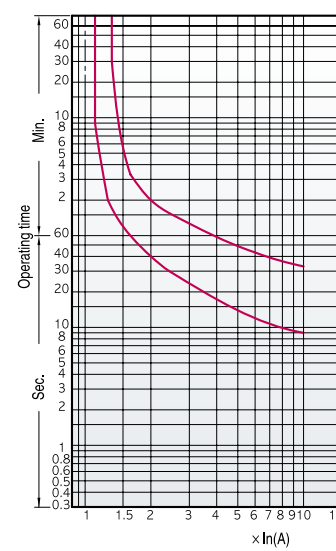


Trip class 20

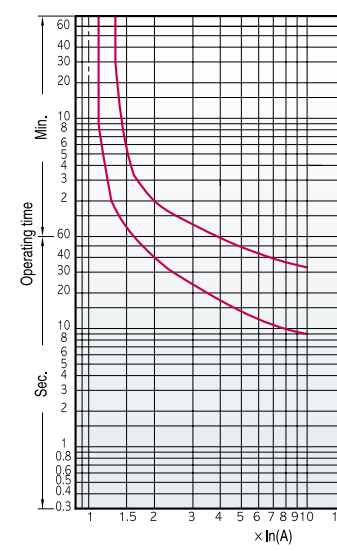


CGT-220/L

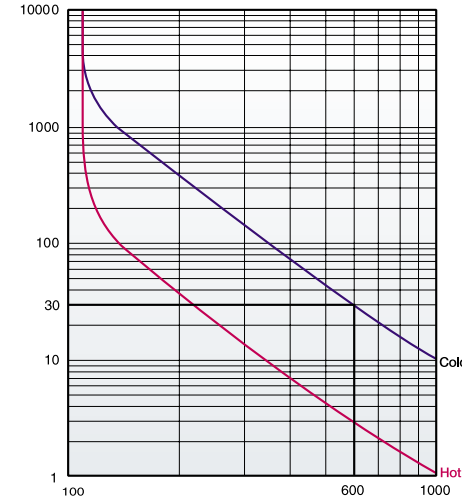
CGT-400/L



CGT-600/L



Trip class 30

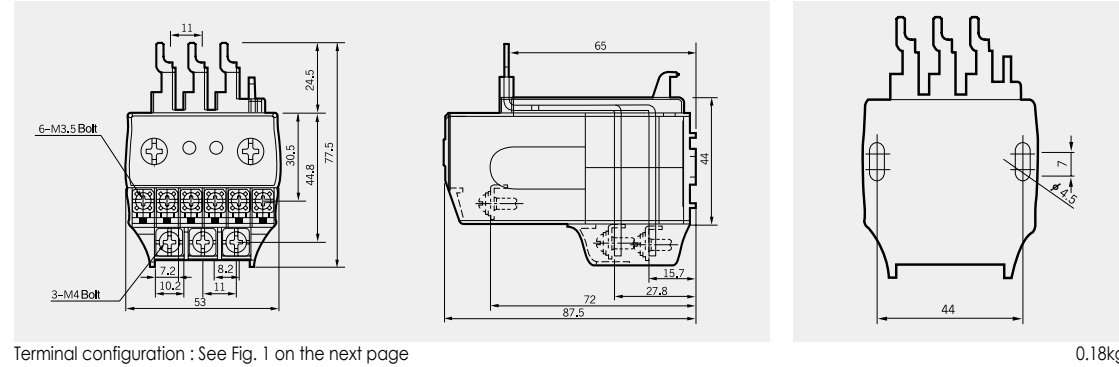


Dimensions

Electronic Overload Relays



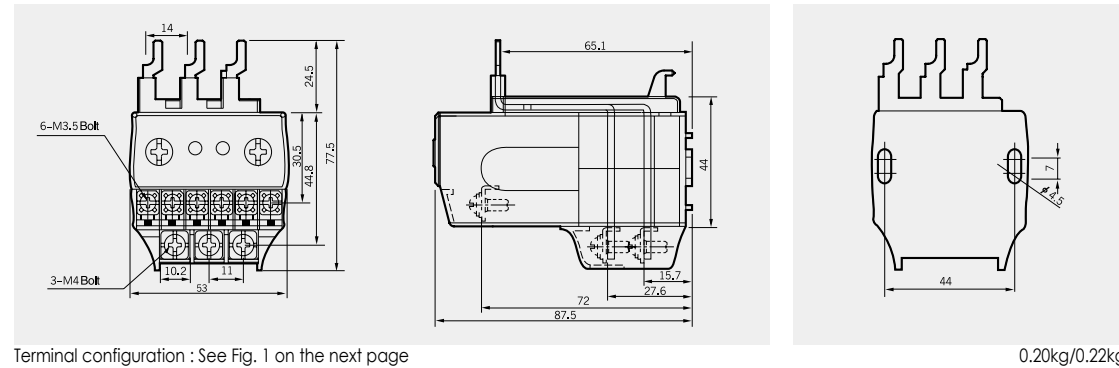
- CGE22-2P
- CGE22-3P
- CGE22-3PR



Terminal configuration : See Fig. 1 on the next page

0.18kg

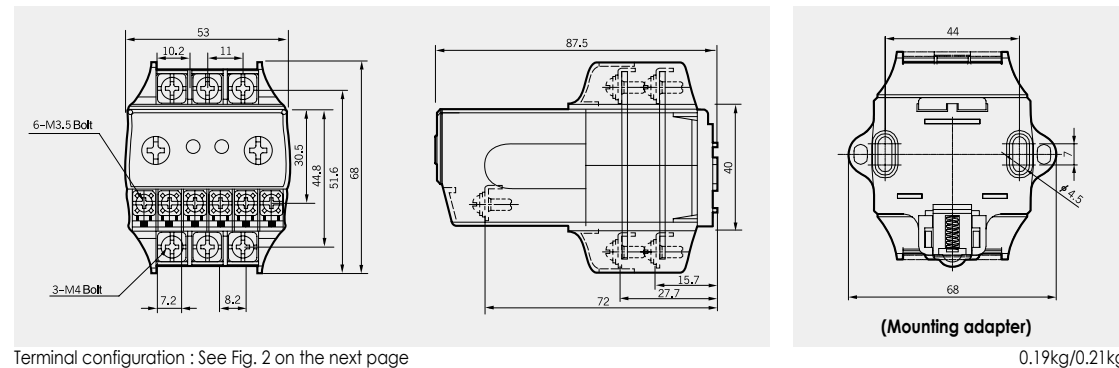
- CGE40-2P
- CGE40-3P
- CGE40-3PR



Terminal configuration : See Fig. 1 on the next page

0.20kg/0.22kg

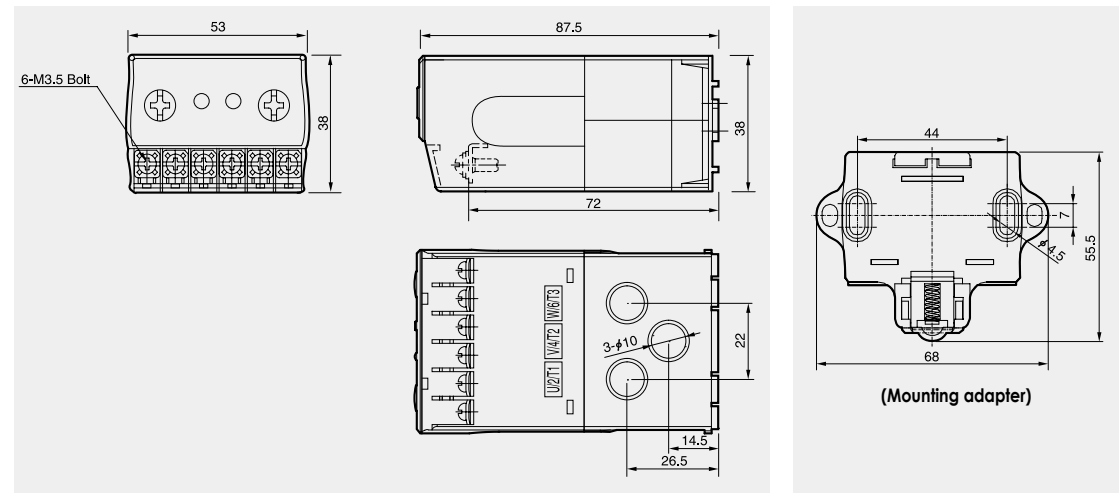
- CGE22-2S
- CGE22-3S
- CGE22-3SR
- CGE40-2S
- CGE40-3S
- CGE40-3SR



Terminal configuration : See Fig. 2 on the next page

0.19kg/0.21kg

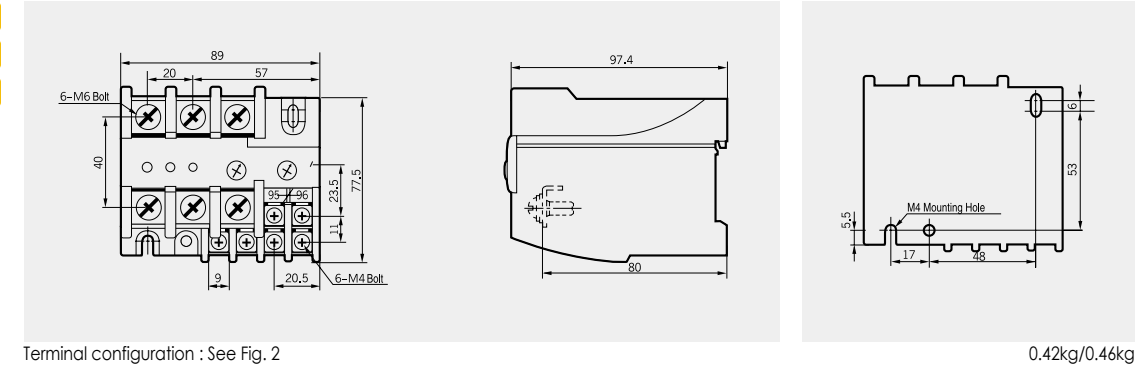
- CGE22-2T
- CGE22-3T
- CGE22-3TR
- CGE40-2T
- CGE40-3T
- CGE40-3TR



Terminal configuration : See Fig. 3 on the next page

0.14kg/0.16kg

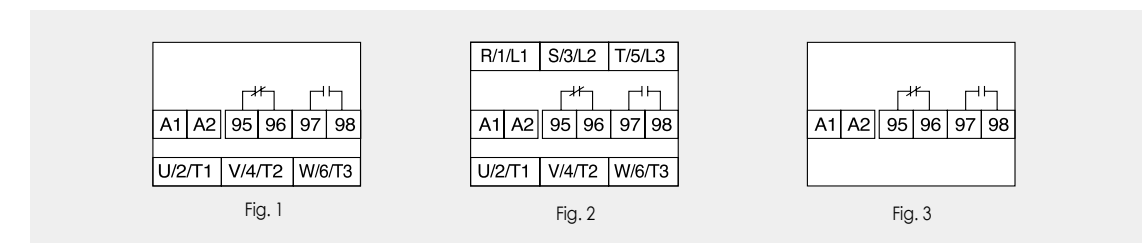
- CGE80-2S
- CGE80-3S
- CGE80-3SR



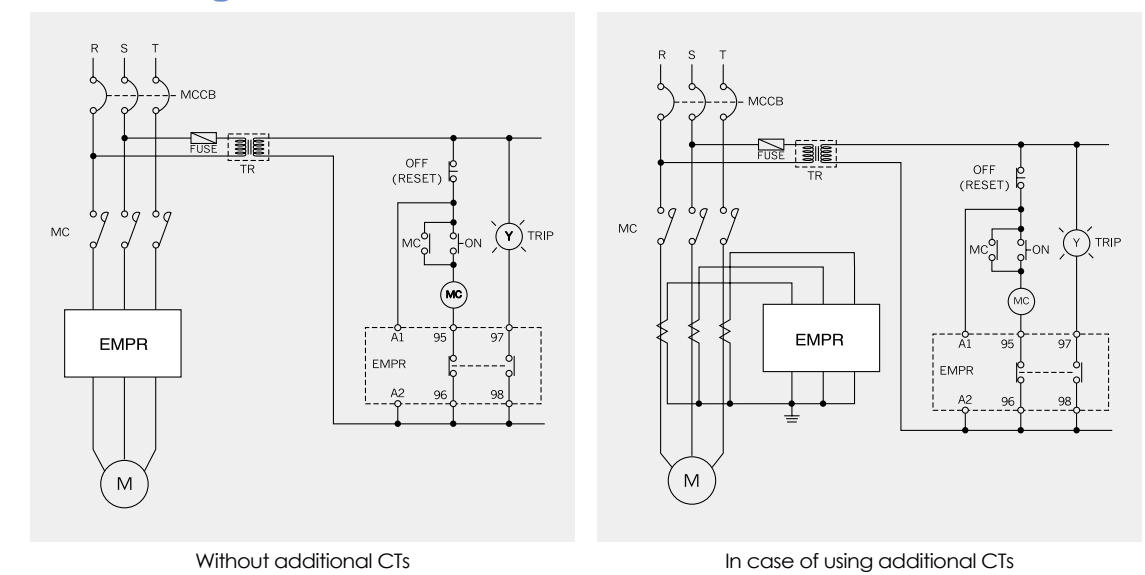
Terminal configuration : See Fig. 2

0.42kg/0.46kg

Terminal configuration



Circuit diagram

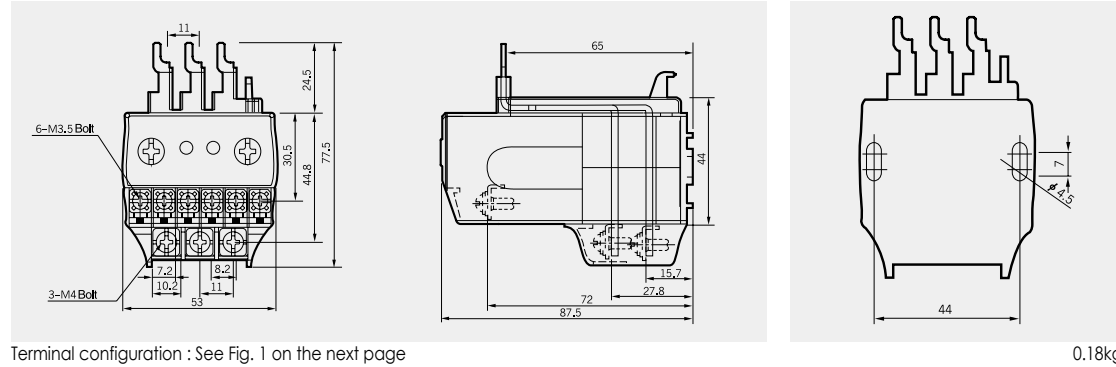


Dimensions

Electronic Overload Relays



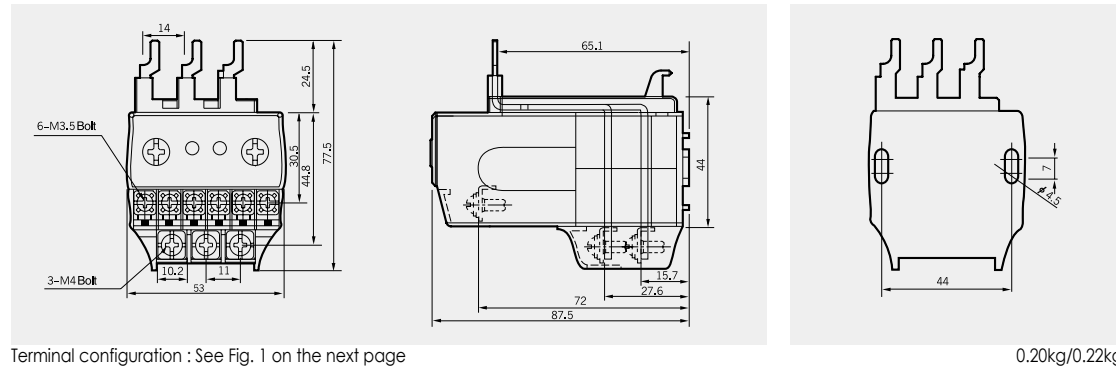
- CGE22-2P
- CGE22-3P
- CGE22-3PR



Terminal configuration : See Fig. 1 on the next page

0.18kg

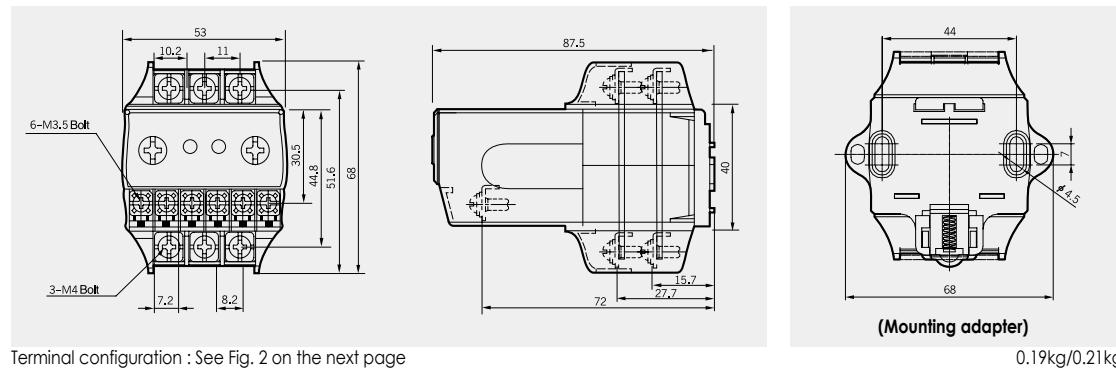
- CGE40-2P
- CGE40-3P
- CGE40-3PR



Terminal configuration : See Fig. 1 on the next page

0.20kg/0.22kg

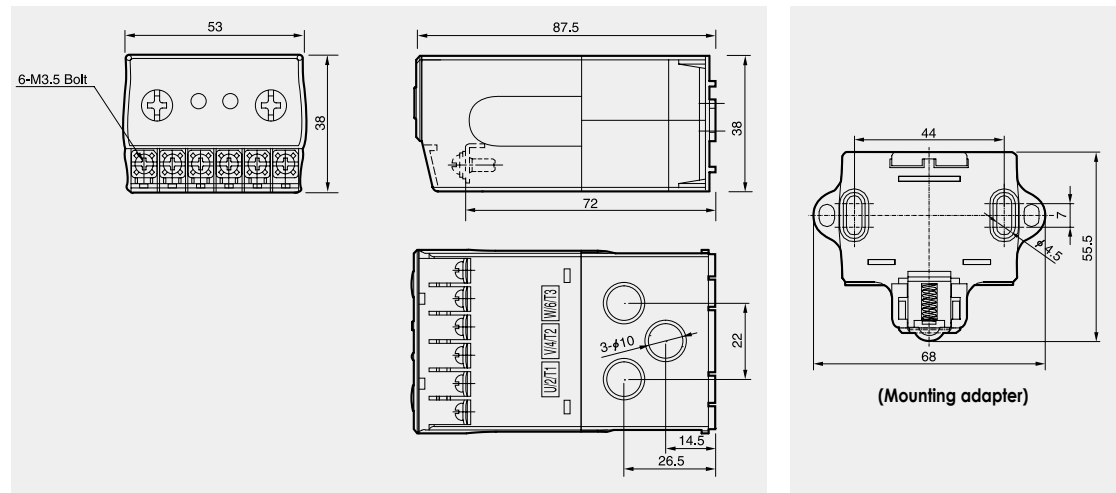
- CGE22-2S
- CGE22-3S
- CGE22-3SR
- CGE40-2S
- CGE40-3S
- CGE40-3SR



Terminal configuration : See Fig. 2 on the next page

0.19kg/0.21kg

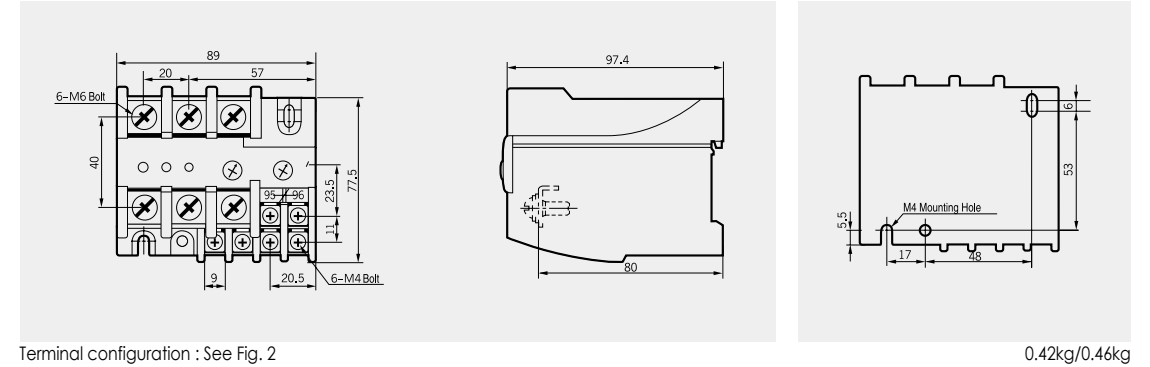
- CGE22-2T
- CGE22-3T
- CGE22-3TR
- CGE40-2T
- CGE40-3T
- CGE40-3TR



Terminal configuration : See Fig. 3 on the next page

0.14kg/0.16kg

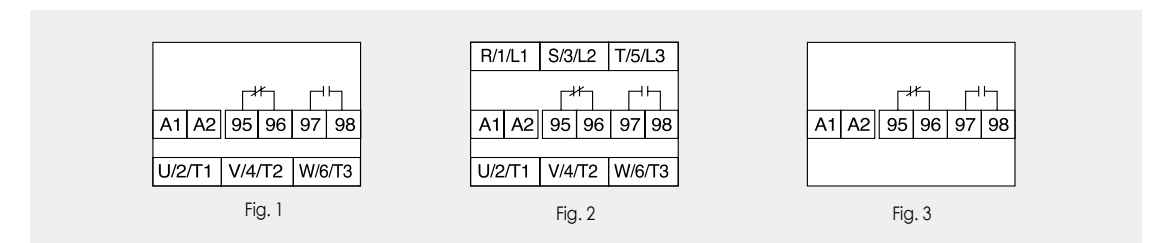
- CGE80-2S
- CGE80-3S
- CGE80-3SR



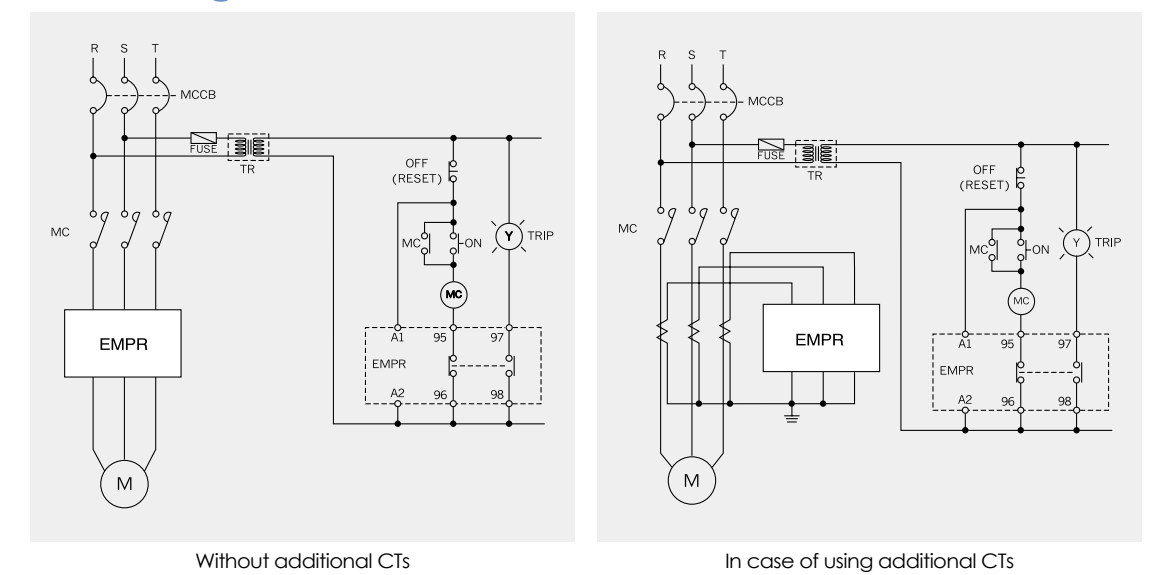
Terminal configuration : See Fig. 2

0.42kg/0.46kg

Terminal configuration



Circuit diagram



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[GCA32A220VAC50/60HZ](#) [GCA32A230VAC50/60HZ](#) [GCA32A240VAC50/60HZ](#) [GCA32A48VAC60HZ](#) [GCA63A120VAC50/60HZ](#)
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[GCA63A48VAC60HZ](#) [GCA63A500VAC50/60HZ](#) [GCA63A600VAC60HZ](#) [GCA800A200VACDC](#) [GCA95A110VAC50/60HZ](#)
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