

Electronic overload relays

22A



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	2-sensor (2 CT)	0.3 - 1.5A	CGE22 - 2S - 1.5A
		1 - 5A	CGE22 - 2S - 5A
	Cable connection with a screw ②	4.4 - 22A	CGE22 - 2S - 22A
3-sensor (3 CT)	0.3 - 1.5A	CGE22 - 3S - 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	2-sensor (2 CT)	0.3 - 1.5A	CGE22 - 2T - 1.5A
		1 - 5A	CGE22 - 2T - 5A
	4.4 - 22A	CGE22 - 2T - 22A	
Connection without a screw ② - cables pass through CT holes	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	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

- 0.1 - 1.5A
- 1 - 5A
- 4.4 - 22A

LED indicator

Operation status indication

- Normal operating
- Overload
- Phase unbalance

Trip cause indication

- Overcurrent
- Phase loss
- Reverse phase

Test/Reset button

Trip time setting

- 0 to 30 sec
- Set time is the trip time at 6 x set current

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 64
- Operating curves → page 137

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CARLO GAVAZZI

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	Phase loss	✓	✓	✓
	Locked rotor	✓	✓	✓
	Phase unbalance		✓	✓
	Phase reversed			✓

Selection

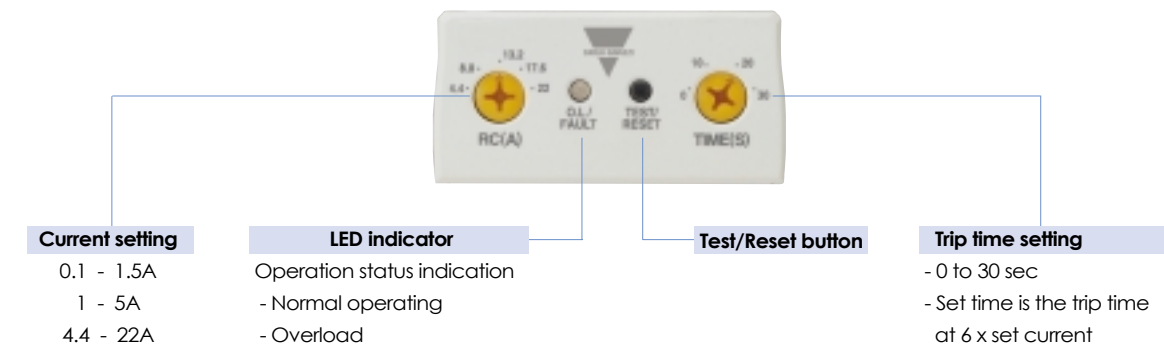
Mount/Connection	Sensor	Setting range	Catalog No.
Directly on a contactor	2-sensor (2 CT)	0.3 - 1.5A	CGE22 - 2P · 1.5
		1 - 5A	CGE22 - 2P · 5
	3-sensor (3 CT)	0.3 - 1.5A	CGE22 - 2P · 22
		1 - 5A	CGE22 - 3P · 5
	3-sensor Reverse phase detection	0.3 - 1.5A	CGE22 - 3P · 22
		1 - 5A	CGE22 - 3PR · 5
Separate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

Ordering information

Specify catalog number

Certificate
CE, ULcUL

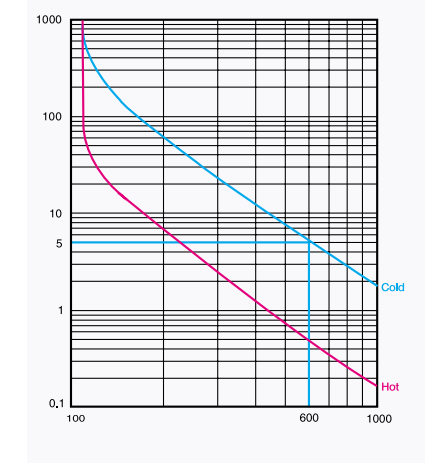
Front face configuration



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

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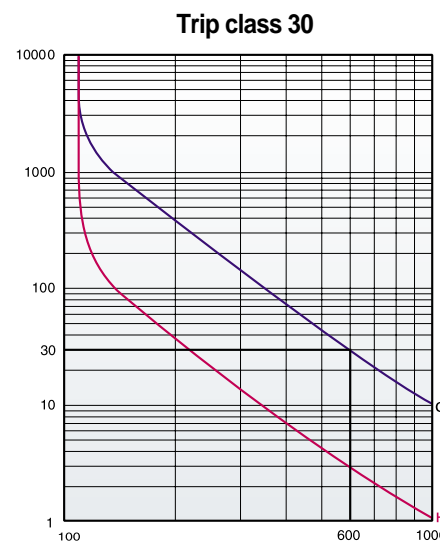
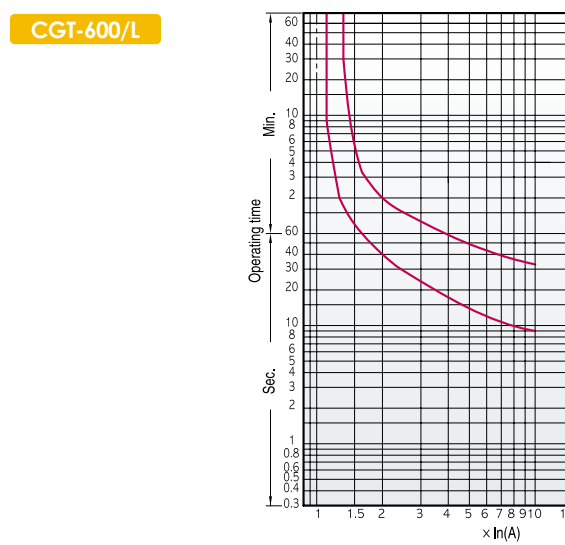
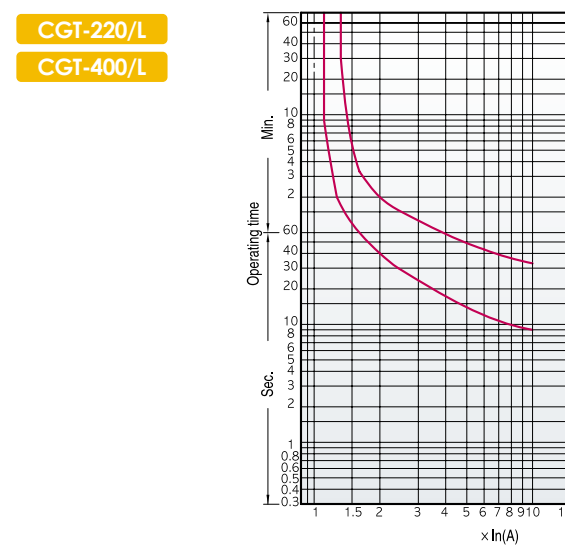
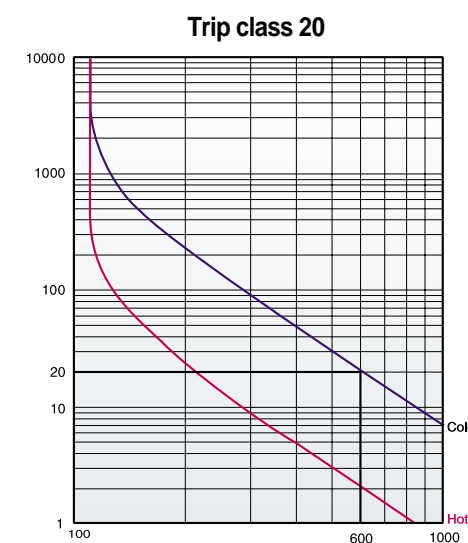
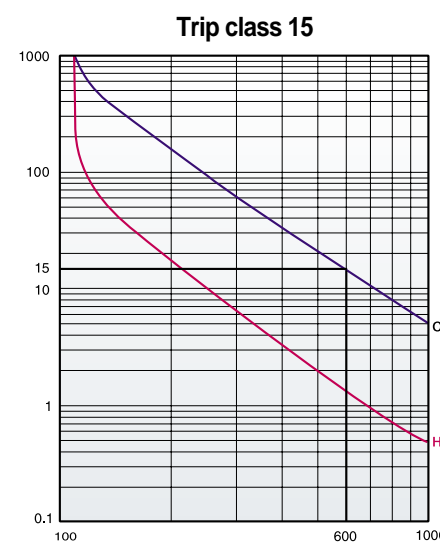
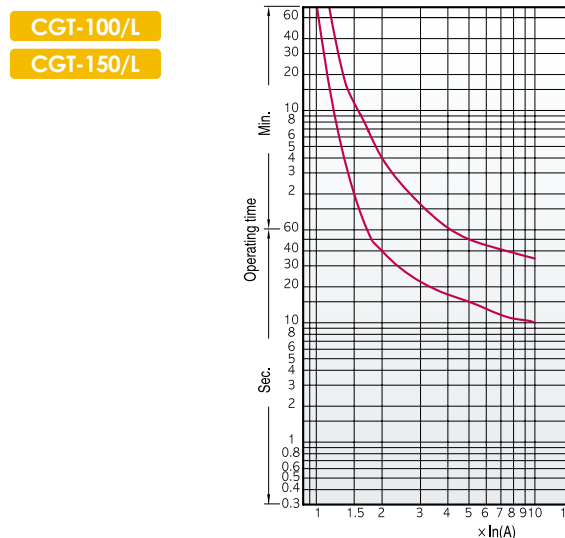
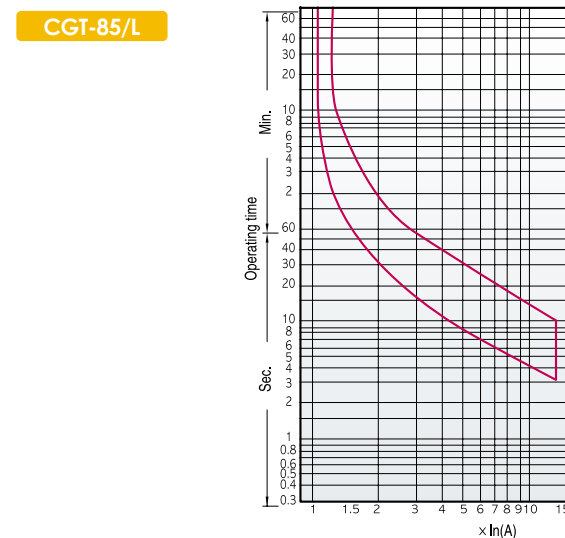
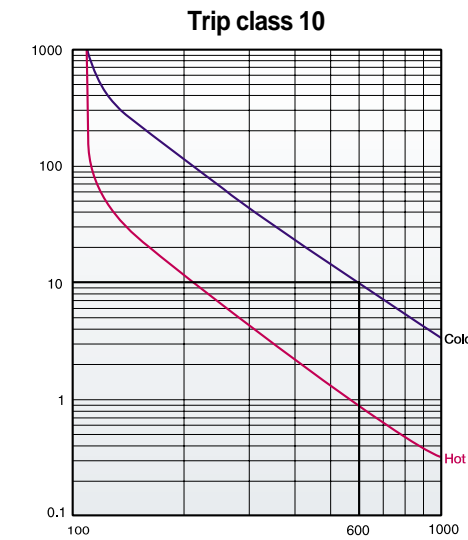
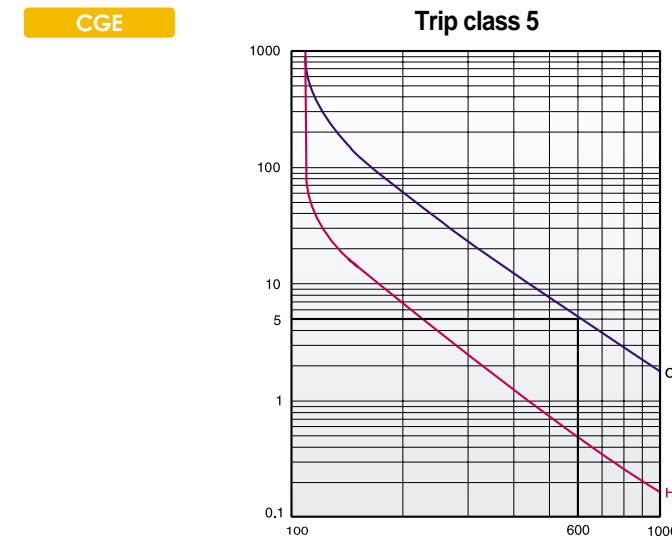
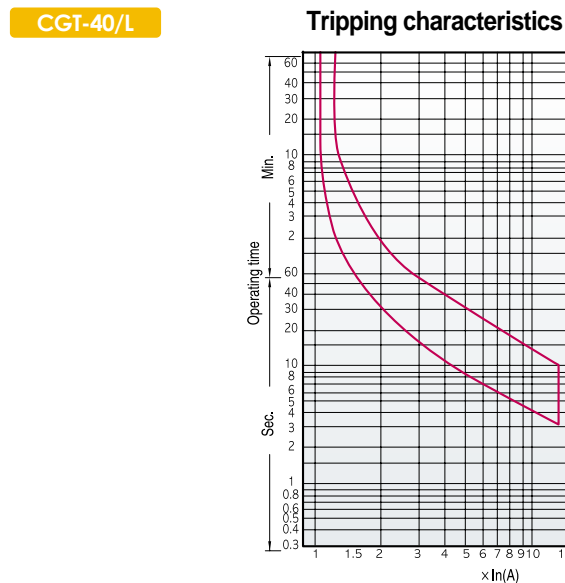
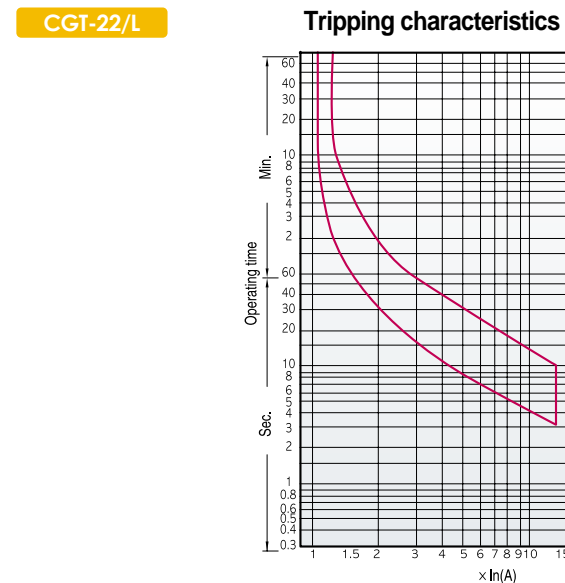
For more information

Drawings	→ page 169
Connections	→ page 170
Contactors	→ page 40
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Technical informations

Trip curves for thermal overload relays, Class 20

Trip curves for electronic overload relays

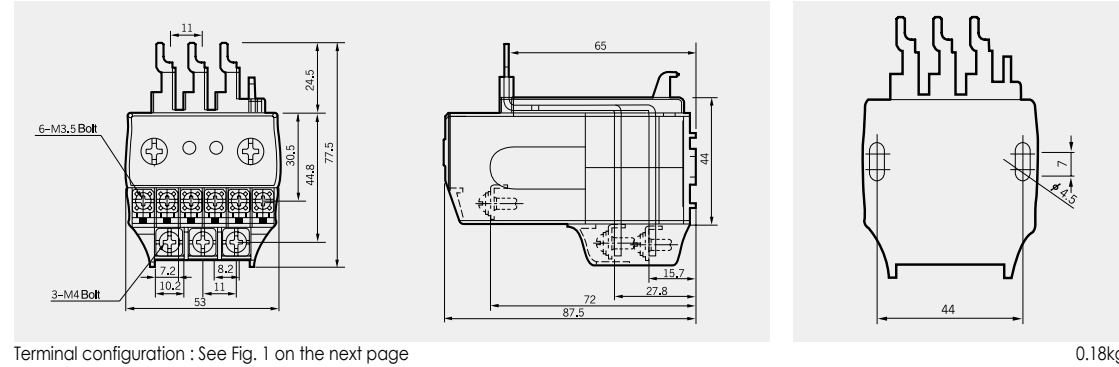


Dimensions

Electronic Overload Relays



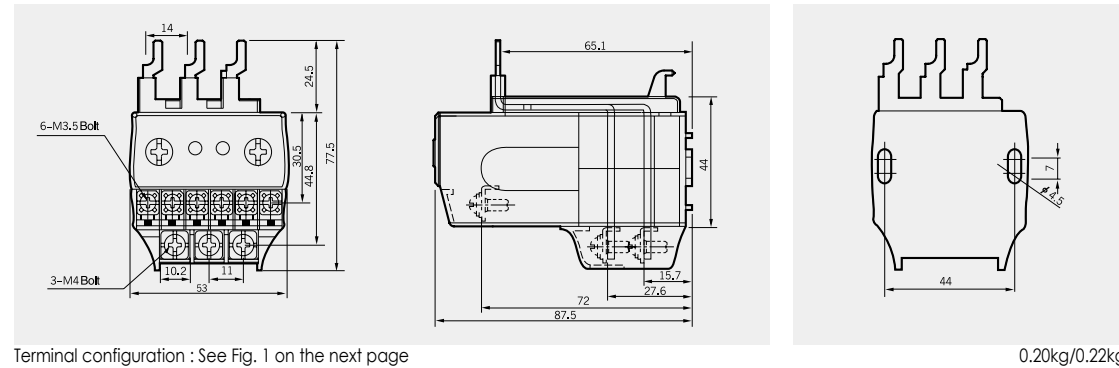
- CGE22-2P
- CGE22-3P
- CGE22-3PR



Terminal configuration : See Fig. 1 on the next page

0.18kg

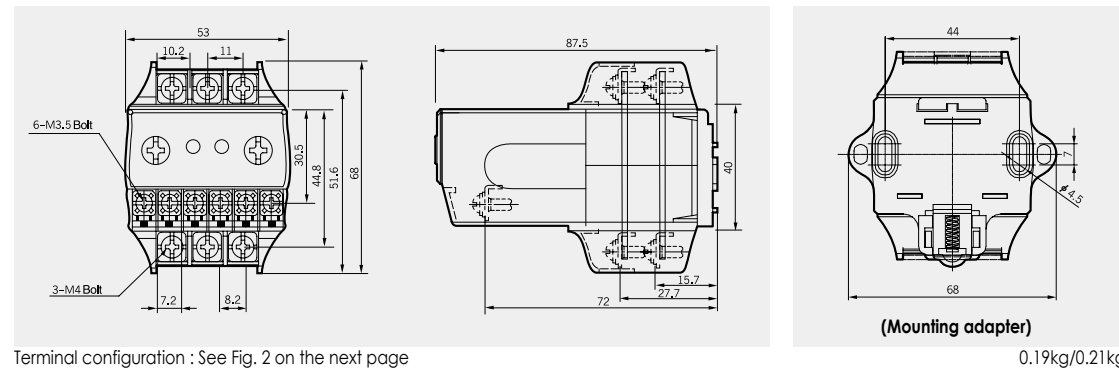
- CGE40-2P
- CGE40-3P
- CGE40-3PR



Terminal configuration : See Fig. 1 on the next page

0.20kg/0.22kg

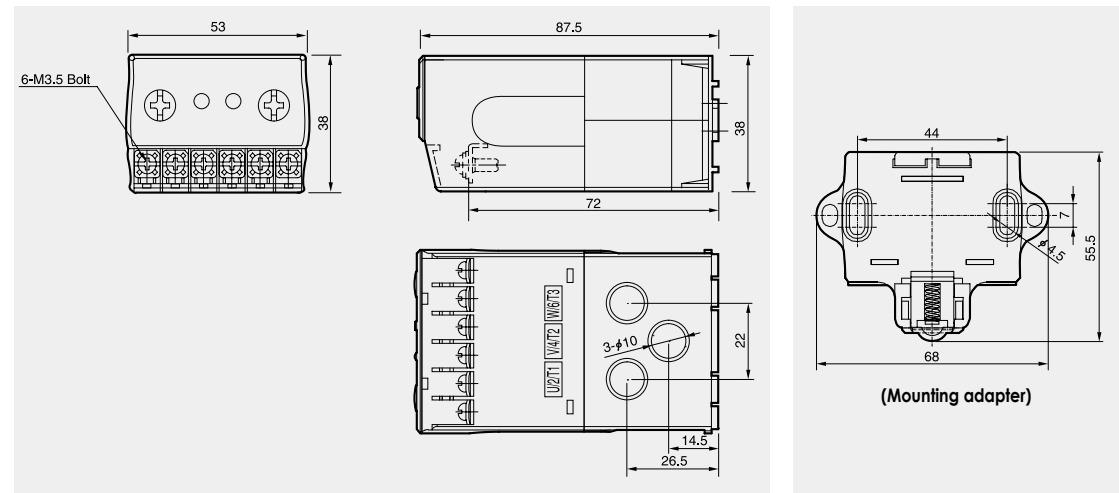
- CGE22-2S
- CGE22-3S
- CGE22-3SR
- CGE40-2S
- CGE40-3S
- CGE40-3SR



Terminal configuration : See Fig. 2 on the next page

0.19kg/0.21kg

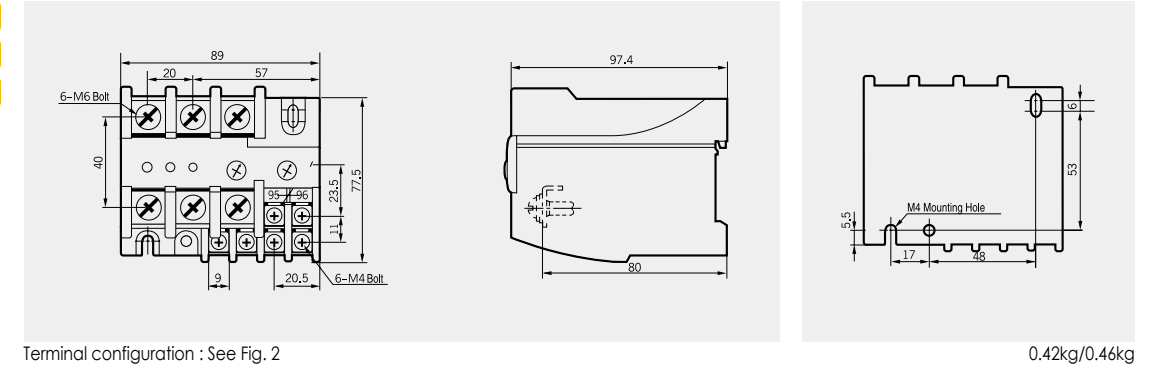
- CGE22-2T
- CGE22-3T
- CGE22-3TR
- CGE40-2T
- CGE40-3T
- CGE40-3TR



Terminal configuration : See Fig. 3 on the next page

0.14kg/0.16kg

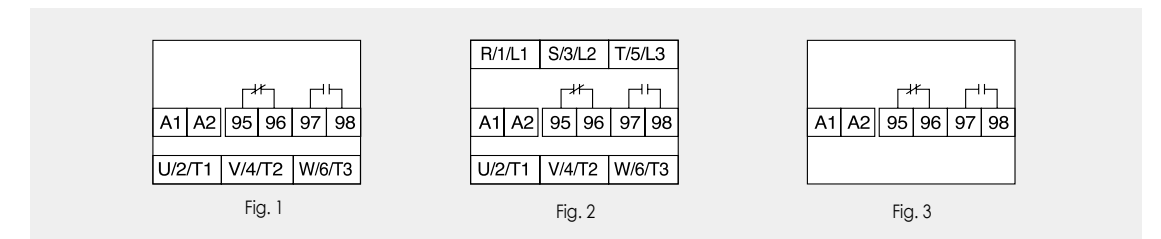
- CGE80-2S
- CGE80-3S
- CGE80-3SR



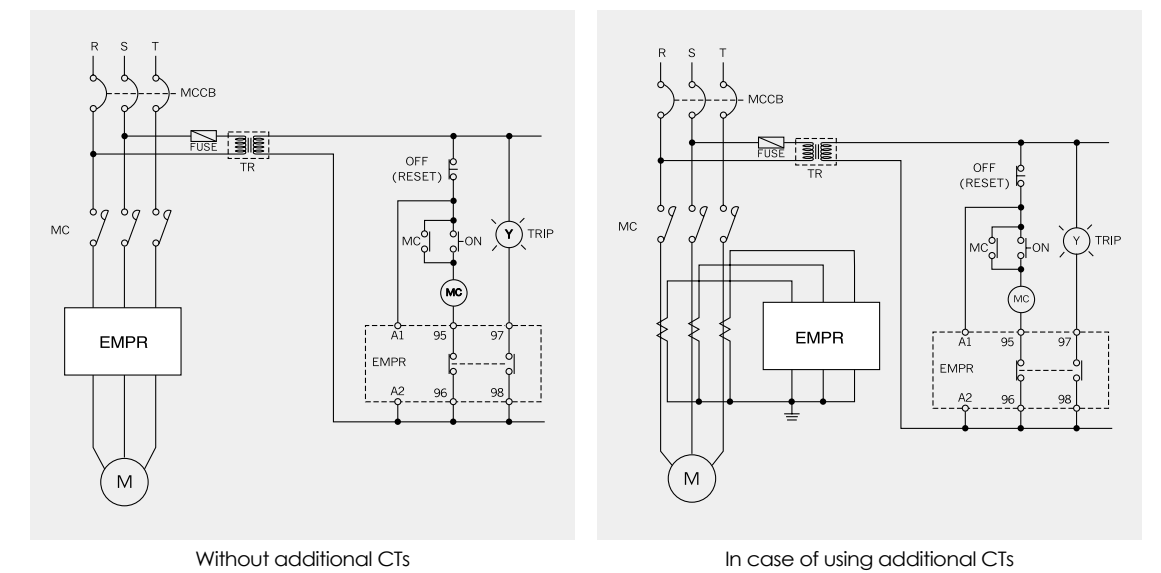
Terminal configuration : See Fig. 2

0.42kg/0.46kg

Terminal configuration



Circuit diagram

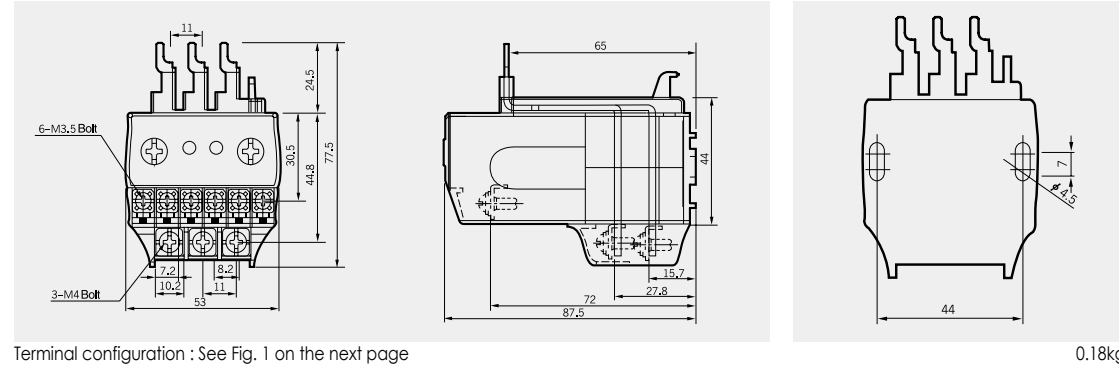


Dimensions

Electronic Overload Relays



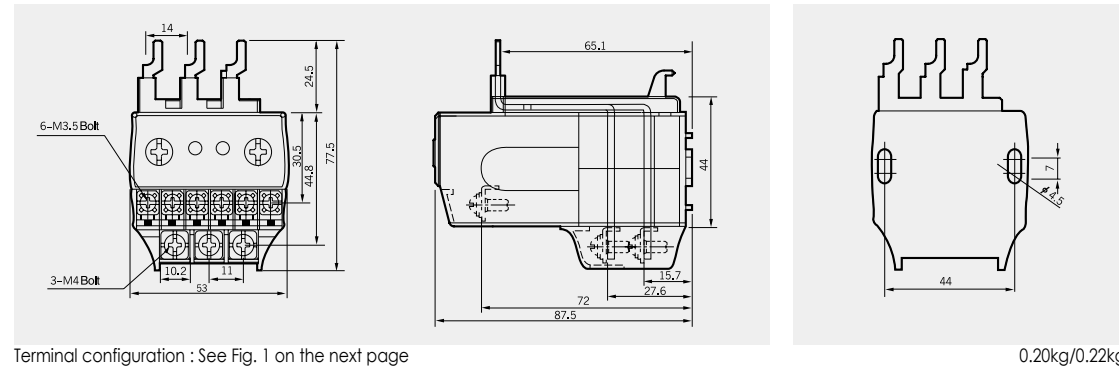
- CGE22-2P
- CGE22-3P
- CGE22-3PR



Terminal configuration : See Fig. 1 on the next page

0.18kg

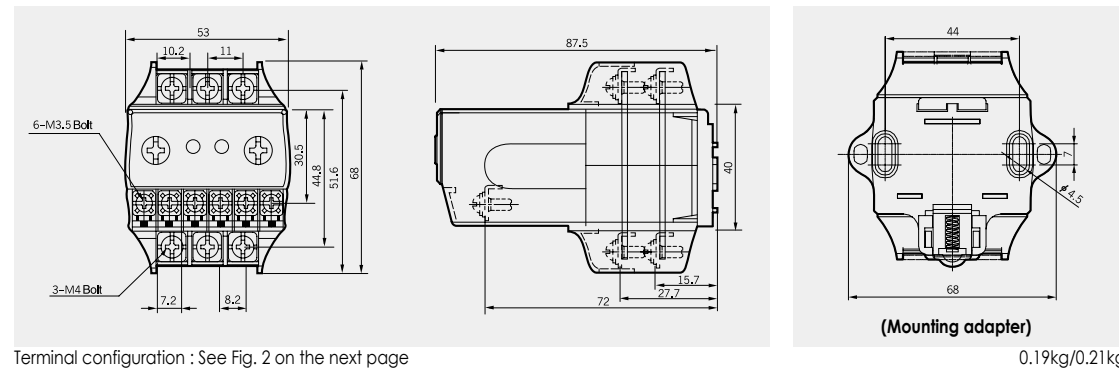
- CGE40-2P
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- CGE40-3PR



Terminal configuration : See Fig. 1 on the next page

0.20kg/0.22kg

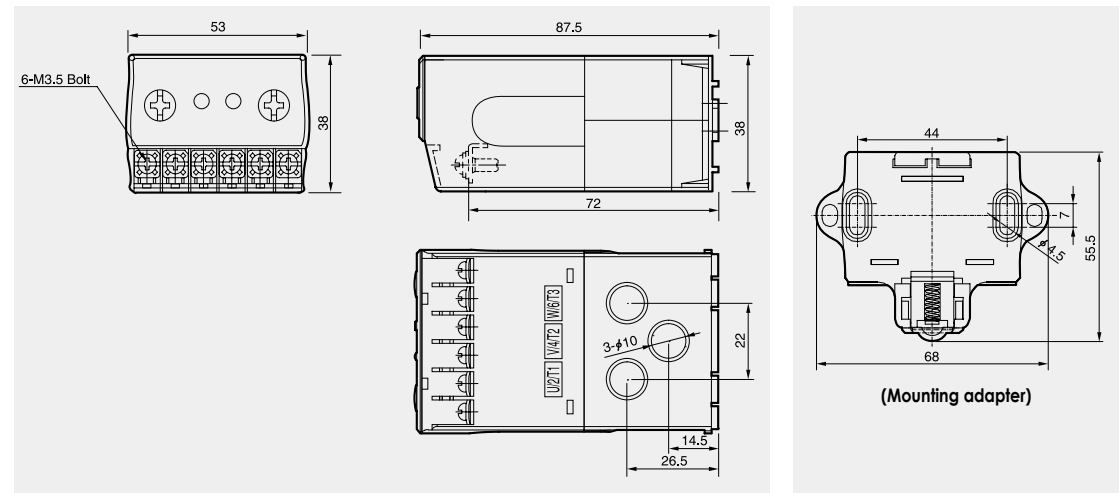
- CGE22-2S
- CGE22-3S
- CGE22-3SR
- CGE40-2S
- CGE40-3S
- CGE40-3SR



Terminal configuration : See Fig. 2 on the next page

0.19kg/0.21kg

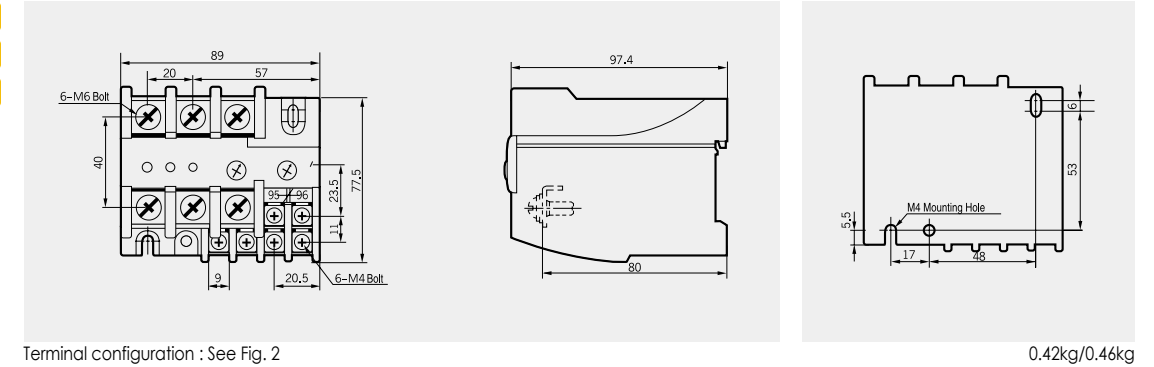
- CGE22-2T
- CGE22-3T
- CGE22-3TR
- CGE40-2T
- CGE40-3T
- CGE40-3TR



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

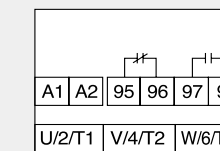


Fig. 1

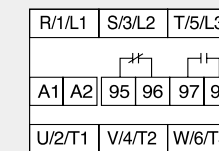


Fig. 2

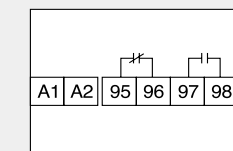
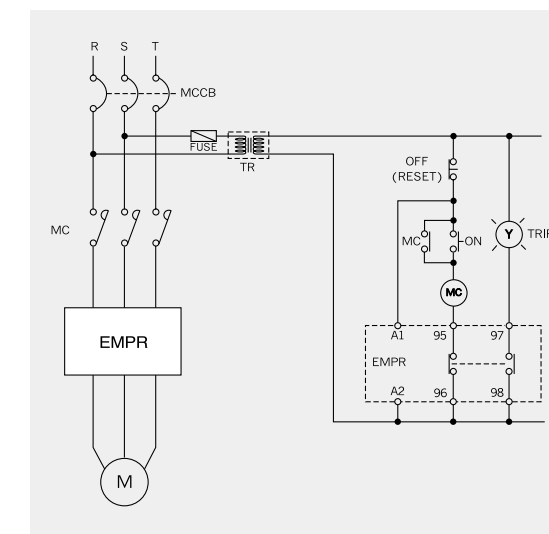
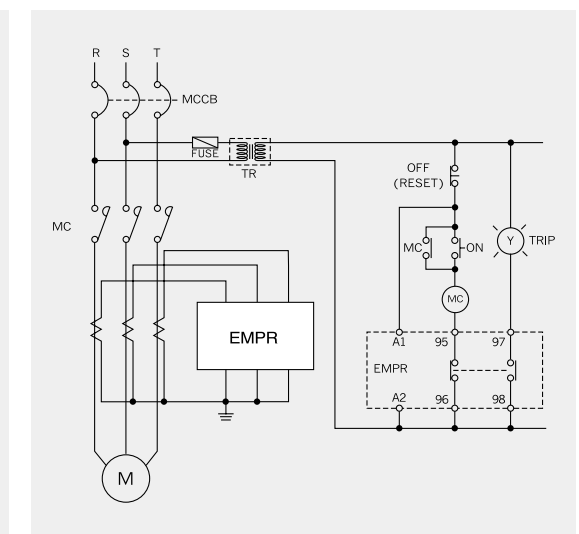


Fig. 3

Circuit diagram



Without additional CTs



In case of using additional CTs

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[GCA32A220VAC50/60HZ](#) [GCA32A230VAC50/60HZ](#) [GCA32A240VAC50/60HZ](#) [GCA32A48VAC60HZ](#) [GCA63A120VAC50/60HZ](#)
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