

Electronic overload relays

80A



Description

- Wide and adjustable current range
- Adjustable trip time (trip class 5-10-15-20-30)
- Designed suitable for use with contactors CGC-50, 65, 75, 85
- Separately mountable on 35mm DIN rail or with screws
- 1NO+1NC trip contacts
- Manual reset as standard (Automatic reset optional)
- Extended protective functions

Extended protective functions

Number of sensors		2CT	3CT	3CT
Types (CGE80- ...)		(-2S)	(-3S)	(-3SR)
Functions	Overcurrent	✓	✓	✓
	Phase loss	✓	✓	✓
	Locked rotor	✓	✓	✓
	Phase unbalance		✓	✓
	Phase reversed			✓

Selection

Mount/Connection	Sensor	Setting range	Catalog No.
Separate mount	2-sensor (2 CT)	16 - 80A	CGE80-2S - 80AN
	3-sensor (3 CT)	16 - 80A	CGE80-3S - 80AN
Cable connection with a screw	3-sensor Reverse phase detection	16 - 80A	CGE80-3S - 80AN

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 100M 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 °C for operation -30 to 80 °C for storage
Humidity	30 to 90% RH

For more information

- Drawings → page 170
- Connections → page 170
- Contactors → page 44
- Starters → page 81
- Bimetallic overload relay → page 66
- Operating curves → page 137

Ordering information

Specify catalog number

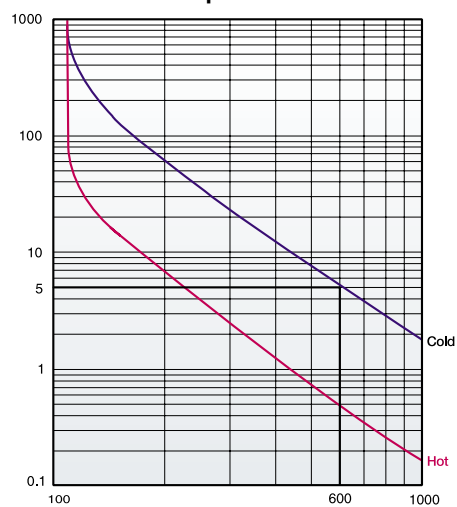
Certificate
CE, ULcUL

Trip curves for electronic overload relays

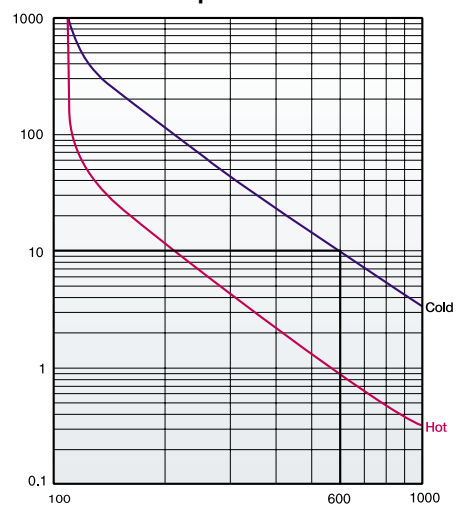


CGE

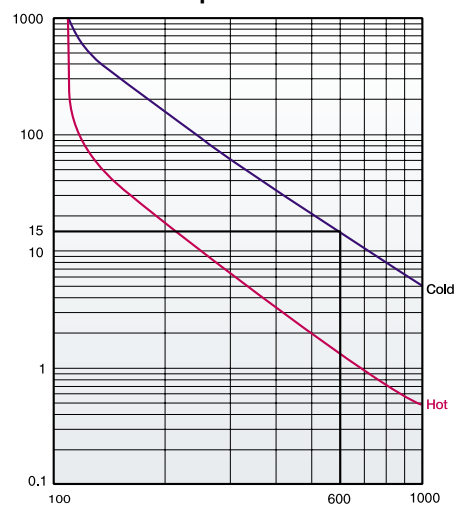
Trip class 5



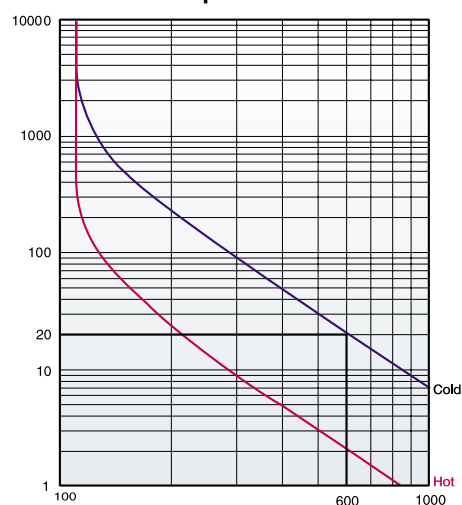
Trip class 10



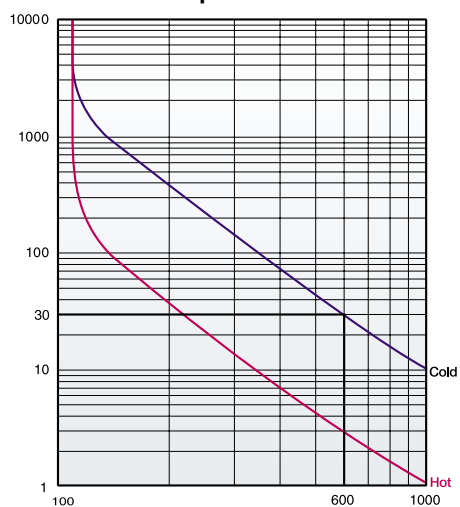
Trip class 15



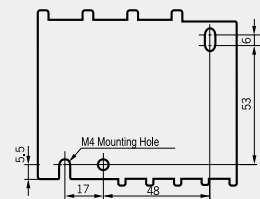
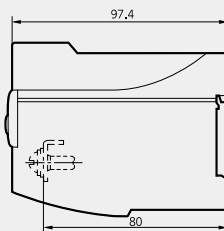
Trip class 20



Trip class 30



CGE80-3SR



0.42kg/0.46kg

Terminal configuration



Circuit diagram

