INTEGRAL MOTOR PROTECTION

- ***For 3-phase motors from 60 to 200 A and over. Cable feed through relay.***
- ***Precise motor heating and cooling memory, reproduces its thermal image.***
- ***Immediate detection of phase loss (3 s), even at reduced load.***
- ***Visual indication of tripping cause.***

For 3 phase motorsup to 200A, in applications such as surface mounted pumps, compressors, mixers, ventilators, elevators, cranes, industrial refrigeration and in general for those motors requiring complete protection where over temperature (by means of PTC sensor) and incorrect phase sequence protection is required.

Its 7 trip classes cover all types of starting or working cycles.

EXTERNAL DISPLAY MODULE

By means of this plug-in optional accessory, the relay status can be seen and reset from the exterior of the electrical panel board.

Easy to install. Size of a Ø22 mm push button.

Suitable for motor control centres (MCC) and panel boards.

GL 200

PROTECTION FUNCTIONS

- I> Overload
- Phase imbalance or phase loss
- Overtemperature
- Phase sequence

ODGL

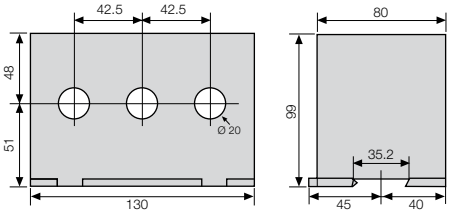
Models	Code	Relay type
ODGL	**12535**	GL

MODELS			**GL 200**
Adjustment range Motor 400 V 50/60 Hz	I_B (A)		60 - 200
	CV		50 - 150
	kW		37 - 110
Code — according to the relay voltage supply (+15% -10%) ac: 50/60 Hz	230 Vac	single phase	**11363**
	115 Vac	single phase	**11362**
	24 Vac, dc	single phase	**11360**
For I_N of the motor below the minimum setting I_B			Pass the cables several times (n) through the holes in the relay I_B = n x I_N
For I_N of the motor above the minimum setting I_B			Use 3 CT .../5 and the relay GL16 and pass the secondary through the holes
External display module (optional)			ODGL

CHARACTERISTICS	
Thermal memory / Overload trip	Yes / From 1,1 x I_B
Maximum motor nominal voltage	1000 Vac
Trip classes (IEC 947-4-1)	5 - 10 - 15 - 20 - 25 - 30 - 35
Phase sequence protection	ON ■□ OFF Actuates during the motor start
Phase imbalance protection	Over 40%. Tripping time < 3s
PTC Min/max cold resist.-Average trip / reset resist.	25Ω / 1500Ω - 3600Ω / 1800Ω
Reset mode	Manual and remote
Signalling LED's	4 LED's: ON + I> + +
Output contacts	1 relay with 1 NA + 1 NC
Switching power	I_{th}: 5A; AC15 - 250V - 2A; DC13 - 30V - 2A
Terminals: Max. section / screw torque	2,5 mm², No. 22 - 12AWG / 20Ncm, 1.8 LB - IN
Power consumption	2,5 VA (115-230 Vac) - 1,5 W (24 Vdc)
Protection degree / weight / mounting	IP20 / 1 kg / DIN rail
Storage temperature	-30°C +70°C
Operating temperature / max. altitude	-15°C +60°C / 1000m ; -15°C +50°C / 3000m
Standards	IEC 255, IEC 947, IEC 801, EN 50081-2
	CE

Settings and curves, see pages 27 to 33.

DIMENSIONS GL RELAY (mm)



WIRING DIAGRAMS (mm)