

Motor Protection Relays

INTEGRAL MOTOR PROTECTION

- For 3-phase motors from 1 to 630 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 motors (1 to 630 A and over), 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.

GL



PROTECTION FUNCTIONS

- I> Overload
- Phase imbalance or phase loss
- Overtemperature
- (P) Phase sequence

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.





Models	Code	Relay type	
ODGL	12535	GL	

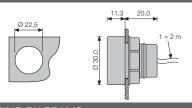
MODELS			GL 16	GL 40	GL 90	
	Adjustment range	I _B (A)		4 - 16,7	15 - 40,5	40 - 91
Motor 400 V		CV		3 - 10	10 - 25	30 - 60
	50/60 Hz	kW		2,2 - 7,5	7,5 - 18,5	22 - 45
Code	according to the relay voltage supply (+15% -10%) ac: 50/60 Hz	230 Vac	single phase	11303	11323	11343
		115 Vac	single phase	11302	11322	11342
		24 Vac, dc	single phase	11300	11320	11340
For $I_{ m N}$ of the motor below the minimum setting $I_{ m B}$			Pass the cables several times (n) through the holes in the relay $I_{\scriptscriptstyle \rm B}$ = n x $I_{\scriptscriptstyle \rm N}$			
For $I_{ m N}$ of the motor above the maximum setting $I_{ m B}$			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 resistAverage 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 mm ² , 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 / 0,5 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		
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Settings and curves, see pages 87 to 93.

DIMENSIONS GL RELAY (mm)





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