

# Electronic motor protection relays

## Inverse time characteristics

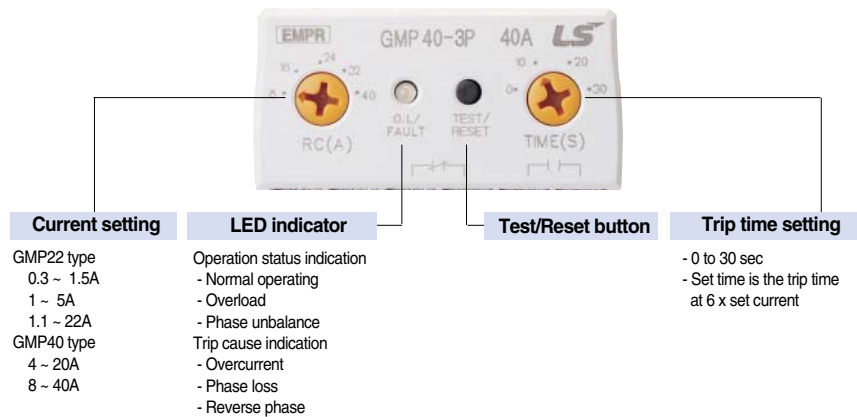
### GMP22/40 Type



#### Description

- Wide and adjustable current range
- Adjustable trip time (trip class 5-30)
- Designed suitable for use with contactors
  - Directly mountable on the Metasol contactors (Pin type)
  - Separate mount versions are also available
  - Separately mountable on 35mm DIN rail or with screws
- 1NO+1NC trip contacts
- Manual reset as standard (Automatic reset optional)

#### Front face configuration



#### Extended protective functions

Types (GMP22/40-□)	-2P, -2T, -2S	-3P, -3T, -3S	-3PR, -3TR, -3SR
<b>Number of sensors</b>	2CT	3CT	3CT
<b>Functions</b>	Overcurrent	✓	✓
	Phase failure	✓	✓
	Locked rotor	✓	✓
	Phase unbalance		✓
	Reverse phase		✓

#### 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 100MΩ at 500V DC
Impulse withstand voltage	5kV (IEC 61000-4-5)
Fast transient burst	2kV (IEC 61000-4-4)
Ambient temperature	-25 to 70°C for operation -30 to 80°C for storage
Humidity	30 to 90% RH

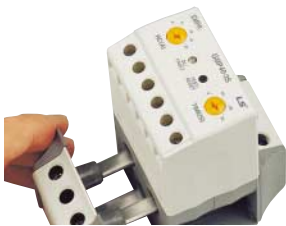
Certificate  
CE, ULcUL

# Inverse time characteristics

## GMP22/40 Type



To mount on 35mm DIN rail



Cable connection part can be modified between screw connection and passing CT hole

### Selection (GMP22 Type)

Mount/Connection	Sensor	Setting range	Catalog No.	
<b>Directly on a contactor</b>	2-sensor (2 CT)	0.3 - 1.5A	GMP22 - 2P · 1.5	
		1 - 5A	GMP22 - 2P · 5	
		4.4 - 22A	GMP22 - 2P · 22	
	3-sensor (3 CT)	0.3 - 1.5A	GMP22 - 3P · 1.5	
		1 - 5A	GMP22 - 3P · 5	
		4.4 - 22A	GMP22 - 3P · 22	
	3-sensor Reverse phase detection	0.3 - 1.5A	GMP22 - 3PR · 1.5	
		1 - 5A	GMP22 - 3PR · 5	
		4.4 - 22A	GMP22 - 3PR · 22	
<b>Separate mount</b>	2-sensor (2 CT)	0.3 - 1.5A 1 - 5A 4.4 - 22A	GMP22 - 2S · 1.5 GMP22 - 2S · 5 GMP22 - 2S · 22	
<b>Cable connection with a screw</b>	3-sensor (3 CT)	0.3 - 1.5A	GMP22 - 3S · 1.5	
		1 - 5A	GMP22 - 3S · 5	
		4.4 - 22A	GMP22 - 3S · 22	
	3-sensor Reverse phase detection	0.3 - 1.5A	GMP22 - 3SR · 1.5	
		1 - 5A	GMP22 - 3SR · 5	
		4.4 - 22A	GMP22 - 3SR · 22	
	<b>Separate mount</b>	2-sensor (2 CT)	0.3 - 1.5A 1 - 5A 4.4 - 22A	GMP22 - 2T · 1.5 GMP22 - 2T · 5 GMP22 - 2T · 22
	<b>Connection without a screw - cables pass through CT holes</b>	3-sensor (3 CT)	0.3 - 1.5A	GMP22 - 3T · 1.5
			1 - 5A	GMP22 - 3T · 5
4.4 - 22A			GMP22 - 3T · 22	
3-sensor Reverse phase detection		0.3 - 1.5A	GMP22 - 3TR · 1.5	
		1 - 5A	GMP22 - 3TR · 5	
		4.4 - 22A	GMP22 - 3TR · 22	

### Selection (GMP40 Type)

Mount/Connection	Sensor	Setting range	Catalog No.	
<b>Directly on a contactor</b>	2-sensor (2 CT)	4 - 20A	GMP40-2P · 20	
		8 - 40A	GMP40-2P · 40	
	3-sensor (3 CT)	4 - 20A	GMP40-3P · 20	
		8 - 40A	GMP40-3P · 40	
	3-sensor Reverse phase detection	4 - 20A	GMP40-3PR · 20	
		8 - 40A	GMP40-3PR · 40	
<b>Separate mount</b>	2-sensor (2 CT)	4 - 20A 8 - 40A	GMP40-2S · 20 GMP40-2S · 40	
<b>Cable connection with a screw</b>	3-sensor (3 CT)	4 - 20A	GMP40-3S · 20	
		8 - 40A	GMP40-3S · 40	
	3-sensor Reverse phase detection	4 - 20A	GMP40-3SR · 20	
		8 - 40A	GMP40-3SR · 40	
	<b>Separate mount</b>	2-sensor (2 CT)	4 - 20A 8 - 40A	GMP40-2T · 20 GMP40-2T · 40
	<b>Connection without a screw - cables pass through CT holes</b>	3-sensor (3 CT)	4 - 20A	GMP40-3T · 20
8 - 40A			GMP40-3T · 40	
3-sensor Reverse phase detection		4 - 20A	GMP40-3TR · 20	
		8 - 40A	GMP40-3TR · 40	