

Electronic motor protection relays

Specification

GMP Series

Ratings



Model	GMP22-2P/PD (1c)	GMP22-2P(1a1b)	GMP22-3P/3PR	GMP22-2S	GMP22-3S/3SR	GMP22-2T	GMP22-3T/3TR
Type	Pin type			Screw type		Tunnel type	
No. of CT	2CT	2CT	3CT	2CT	3CT	2CT	3CT
Protection	Overcurrent	●	●	●	●	●	●
	Phase failure <small>Note1)</small>	●	●	●	●	●	●
	Lock/Stall	●	●	●	●	●	●
	Phase unbalance	—	—	●	—	●	●
	Reverse phase	—	—	●(3PR)	—	●(3SR)	—
Current setting range (A)	0.3~1.5, 1~5, 4.4~22						
Operating time characteristics	Inverse time (GMP22-2PD: Definite time)						
Time setting (sec)	Inverse time	0~30 sec					
	Definite	D-time	0.2~60 sec for GMP22-2PD				
		O-time	5sec (Fixed) for GMP22-2PD				
	Reset-time	Manual reset					
Tolerance	Current	±5%					
	Time	±5%(or ±0.5sec)					
Control power	Voltage	AC 110V/220V(±10%)	AC 100~260V				
	Frequency	50/60Hz					
Aux. contact	Contact	1SPDT: 1c (N) <small>Note 3)</small>	2SPST (1a1b)				
	Ratings	5A/250VAC Resistive load	3A/250VAC Resistive load				
	Operate	(95 ⇄ 96 Close)	(95 ⇄ 96 Close)	(97 ⇄ 98 Open)			
Insulation resistance	Min 100MΩ at 500Vdc						
Surge endurance (IEC 61000-4-5)	5kV Apply the standard wave						
Fast transient burst (IEC 61000-4-4)	2kV						
Environment	Operation	-25~70℃					
	Storage	-30~80℃					
Relative humidity	30~90%RH(No freezing)						
Trip indicator	Red LED	Red/Green LED	Red LED	Red/Green LED	Red LED	Red/Green LED	
Dimension (mm) W×H×D	44×71×78	53×78×87.5	53×68×87.5		53×38×87.5		
Mounting type	Direct mount onto a Metasol MC (MC-9b-22b)			Separate mount (Screw or Din-rail) <small>Note2)</small>			
Certification	UL, cUL, CE (Except GMP22-2PD type)						

Note) 1. When it is 2CT modle, only two-phase protection is available

2. The bracket for Din-rail mount is optional

3. 1c(N): No volt release contact type [1c(R), Non-fail-safe operation contact type is optional]

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Model	GMP40-2P/PD/PA	GMP40-3P/3PR	GMP40-2S	GMP40-3S/3SR	GMP40-2T	GMP40-3T/3TR	GMP80-2S/SA	GMP80-3S/3SR
Type	Pin type *		Screw type		Tunnel type		Screw type	
No. of CT	2CT	3CT	2CT	3CT	2CT	3CT	2CT	3CT
Protection	Overcurrent	●	●	●	●	●	●	●
	Phase failure <small>Note1</small>	●	●	●	●	●	●	●
	Lock/Stall	●	●	●	●	●	●	●
	Phase unbalance	—	●	—	●	—	●	●
	Reverse phase	—	●(3PR)	—	●(3SR)	—	●(3TR)	—
Current setting range(A)	4~20, 8~40						16~80	
Operating time characteristics	Inverse time characteristics							
Time setting (sec)	Inverse time	0~30 sec						
	Definite	D-time	0.2~60 sec (GMP40-2PD)					
		O-time	5sec (Fixed) (GMP40-2PD)					
	Reset time	Manual reset (Auto Reset type : GMP□-A)						
Tolerance	Current	±5%						
	Time	±5% (or ±0.5 sec)						
Control power	Voltage	AC 100~260V, 50/60Hz						
Aux. contact	Contact <small>Note2</small>	2SPST (1a1b)						
	Ratings	3A/250VAC Resistive load						
	Operate	(95 ± 96 Close)		(97 ± 98 Open)				
Insulation resistance	Min 100MΩ at 500Vdc							
Surge endurance (IEC 61000-4-5)	5kV Apply the standard wave							
Fast transient burst (IEC 61000-4-4)	2kV							
Environment	Operation	-25~70℃						
	Storage	-30~80℃						
Temperature	Relative humidity	30~90%RH (No freezing)						
Trip indicator	Red LED	Red/Green LED	Red LED	Red/Green LED	Red LED	Red/Green LED	Red LED	2Red LEDs
Dimension(mm)	W×H×D	53×78×87.5		53×68×87.5		53×38×87.5		89×77.5×97.4
Mounting type	Direct mount onto a Metasol MC (MC-32a, 40a)		Separate mount (Screw or Din-rail)					
Certification	UL, cUL, CE (Except GMP-PD, PA, SA type)							

Note) 1. When it is 2CT modle, only two-phase protection is available

2. When power applied Aux. Contact operate

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Model	GMP60T	GMP60-TE	GMP60-TD	GMP60-TDa	GMP60-3T(R)	GMP60-3TZ(R) GMP60-3TN(R)
Type	Tunnel type		Tunnel type		Tunnel type	Tunnel type
No. of CT	2CT		2CT		3CT	3CT
Protection	Overcurrent	●	●	●	●	●
	Phase failure	●	●	●	●	●
	Lock/Stall	●	●	●	●	●
	Phase unbalance	—	—	●	●	●
	Reverse phase	—	—	●(R Type)	●(R Type)	●(R Type)
	Ground fault ^{Note1)}	—	—	—	—	●
Current setting range (A)	0.5~6, 3~30, 5~60		0.5~60		0.5~60	0.5~60
Operating time characteristics	Definite		Definite		Definite	Definite
Time setting (sec)	D time	0.2~30 sec		1~60 sec	0.2~60 sec	0.2~60 sec
	O time	0.2~15 sec	5 sec (Fixed)	0.5~30 sec	0.2~15 sec	3 sec (Fixed)
	A time (Reset)	—	0.2~120 ^{Note4)}	—	1~20 min	—
Tolerance	Current ±5% Time ±5% (or ±5 sec)					
Control power	Voltage ^{Note3)}	AC 110V/220 (±10%) ^{Note3)}		AC 110V or 220V (±10%)	AC 100V~260V	
	Frequency	50/60Hz				
Aux. contact	Contact	1SPDT: 1c (N) ^{Note 2)}		2SPST (1a1b)		
	Ratings	1A/250VAC Resistive load		3A/250VAC Resistive load		
Insulation resistance	Min 100MΩ at 500Vdc					
Surge endurance (IEC 61000-4-5)	5kV Apply the standard wave					
Fast transient burst (IEC 61000-4-4)	2kV					
Environment	Operation	-25~70℃				
Temperature	Storage	-30~80℃				
	Relative humidity	30~90% RH (No freezing)				
Trip indicator	Red LED		7 Segment		Red/Green × 2-Color LED	Red/Green × 2-Color LED, Red LED
Dimension(mm)	W×H×D		72×67×69		75×72.8×47	94.6×95×97
Mounting type	Separate mount (Screw or Din-rail)					
Certification	UL, cUL, CE		—			

Note) 1. 3TZ(R): Zero sequence CT type, 3TN(R): Residual circuit
 2. 1c(N): No volt release contact type [1c(R), Non-fail-safe operation contact type is optional]
 3. GMP60T/TE: AC 24V, 48V, 380V or 480V 50/60Hz types a option
 4. GMP60TA: Auto Reset type