

GUIDEFORM SPECIFICATIONS

The relay shall be an integrated digital protection system including overcurrent protection, current monitoring, diagnostic, and communication capabilities.

Protection functions shall include:

- phase and ground time overcurrent (TOC 51/51N)
- four characteristic curves (inverse, very inverse, extremely inverse, and long time inverse) and four values of definite time protection
- ground TOC unit includes a sensitive setting for detecting residual ground currents
- phase and ground instantaneous overcurrent (IOC 50/50N)
- IOC functions include an adjustable timer
- the IOC functions can be disabled with a 0 time setting

The relay shall have three external inputs which shall block IOC trips, block ground trips, and indicate breaker status. Four output relay contacts shall be provided. Two can be configured by an output selection switch to distinguish either between phase and ground trips, or between time delay and instantaneous trips. The other two outputs are a control power/self test failure alarm, and a contact to close the breaker.

The monitoring functions shall include:

- phase and ground current metering with a sampling rate of 20 samples per cycle, displayed in 5 second intervals
- fault currents for the last trip
- operating time for the last trip to within 1/100 of a second

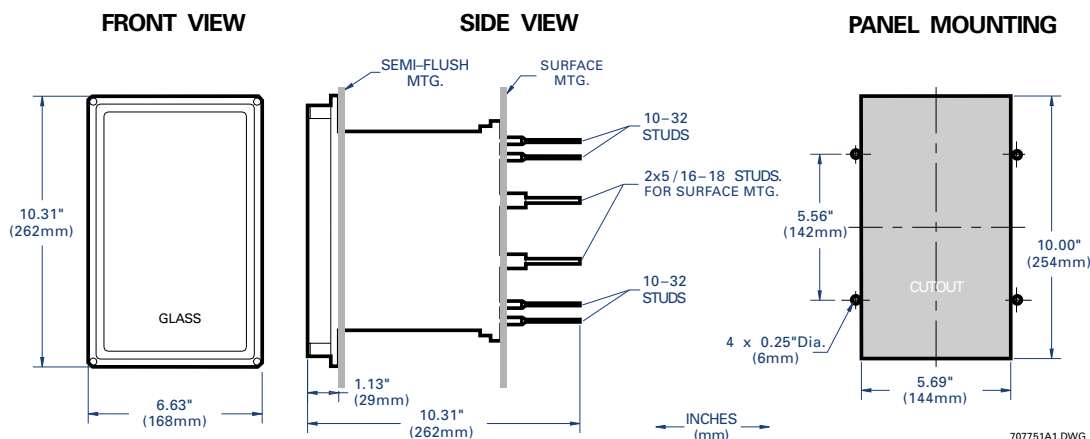
- self test

User interfaces shall include:

- LEDs to indicate the relay is in service and if a protection device has picked up
- six individual target LEDs to indicate each protection function
- relay settings controlled by front panel dip switches
- 2 digit scrolling display
- test and connection plugs for current injection testing
- rear serial data interface for communication and data retrieval, including choice of RS232 or RS485, and choice of GE-modem, Commnet, or ModBus® RTU protocols
- software for PC communication

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DIMENSIONS



ORDERING

To order select the basic model and the desired features from the Selection Guide below.

MDP * * * 0 000 * A

MDP				
MDP				Base unit with 50/51 overcurrent protection
0				No Communications or control inputs (Block Ground, Block Instantaneous, Breaker Status)
1				Control inputs and communications upgrade socket
2				Commnet
3				ModBus® RTU
4				RS232
5				RS485
1				5 A Nominal, 1.5 to 13.125 A Phase, 0.5 to 4.375 A Ground
2				5 A Nominal, 1.5 to 13.125 A Phase, 1.5 to 13.125 A Ground
3				5 A Nominal, 1.5 to 13.125 A Phase, 0.1 to 0.875 A Ground
4				1 A Nominal, 0.3 to 2.625 A Phase, 0.1 to 0.875 A Ground
5				1 A Nominal, 0.3 to 2.625 A Phase, 0.3 to 2.625 A Ground
6				1 A Nominal, 0.3 to 2.625 A Phase, 0.05 to 0.4375 A Ground
7				5 A Nominal, 0.5 to 4.375 A Phase, 0.5 to 4.375 A Ground
1				24-48 VDC (19 to 60 VDC)
2				48-125 VDC/AC (38.5 to 150 VDC/AC) 35 to 120 AC
3				110-250 VDC (88 to 285 VDC) 85 to 240 AC
			D	Revision Levels

Online ordering is available for this product.

See pages 15 - 18.

www.GEindustrial.com/pm