



Ground Fault Current Detection Systems

Model GFM (Relay)

1.5 to 65 Amp Trip Currents



ADJUSTABLE OPERATING RANGE:

Trip currents from 1.5 to 65 Amperes.
Time delay from instantaneous to 36 cycles.

INPUT POWER: Self powered.

FREQUENCY: 50/60 Hz.

AMBIENT TEMPERATURE RANGE:

-30°C to +60°C
Positive "ON" (Green)
and "OFF" (Red) condition
indication, manual reset.

SPDT contacts:
Form C, rated 10 Amps
continuous, 23 Amps inrush,
250 volts ac.



Model GFM - 252 & Model 262

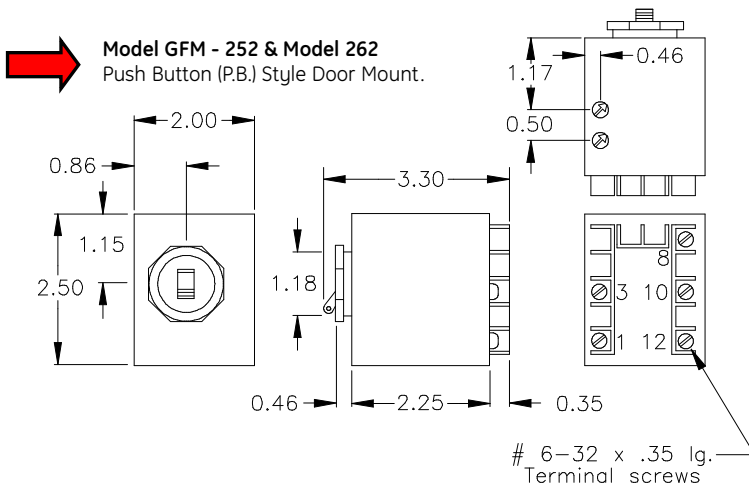


Model GFM - 353, 363, 453, and 463

Only for use with GFM sensors.

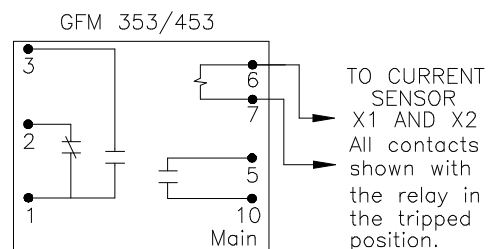
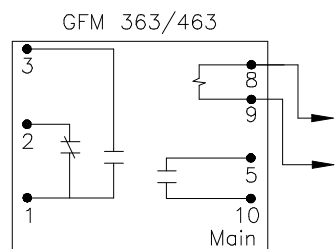
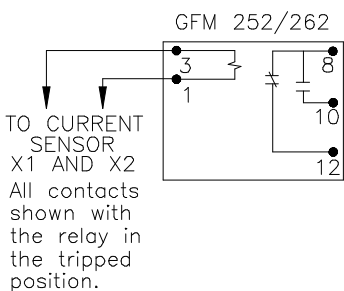
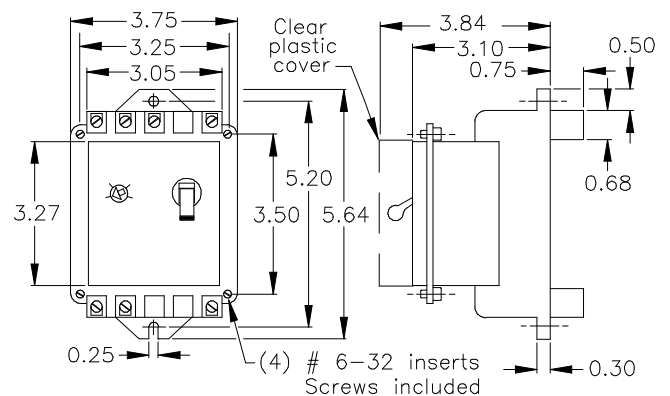
- The class 1 model **GFM** Ground Fault protection systems are designed to minimize damage or loss to equipment caused by destructive arcing ground faults. This GFM systems is designed for all polyphase applications and is ideally suited for motor control, motor control centers, and high voltage starters. System can be wye or delta, ground or resistance grounded. When the ground fault current exceed a pre-selected condition (current and time setting) the relay trips.

The relay contacts can be connected in the control circuit of a motor starter, to the shunt trip of a circuit breaker or similar disconnecting or alarm devices. The system has an inverse time characteristic to prevent nuisance tripping. The relay tripping current value is field adjustable over the trip current range of the sensor. The adjustable trip time delay relay is field settable up 36 cycle.



Model GFM - 353, 363, 453, and 463

Rear terminal kit and clear plastic cover standard with door mounting.
Main contact rated 30 Amps, 277 Volts.



Ground Fault Model GFM (Sensor) 1.5 to 65 Amp Trip Currents

OPERATING RANGE:

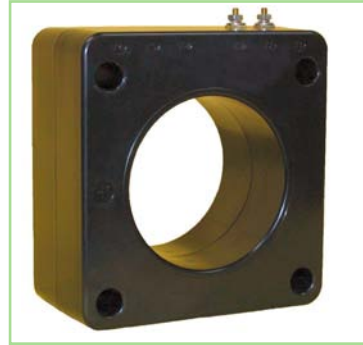
Trip currents from
1.5-7.5 to 15 - 65 Amperes.

INSULATION LEVEL:

600 Volt, 10 kV BIL full wave.
Terminals are brass studs
No. 8-32.

FREQUENCY: 50/60 Hz.

Only for use with GFM relays.



TOROIDAL SENSORS



RECTANGULAR SENSORS

- Ground Fault Current Sensors type **GFM**, are available in three different case styles, a variety of sizes and trip current ranges - to match the **GFM** Relay. The physical size of the sensor window should be carefully determined by the physical size and configuration of the power conductors. The Ground Fault Sensor will respond only to ground faults which occur between the position of the sensor and the load.

MODEL NUMBER	TRIP CURRENT	SENSOR DIMENSIONS					
		"A1"	"A2"	"A3"	"B1"	"B2"	"B3"
GFM 094	2.0 TO 8.5	0.94	N/A	2.67	N/A	2.75	2.38
GFM 125	2.7 TO 14	1.25	N/A	2.67	N/A	2.75	2.38
GFM 156	4.5 TO 18	1.56	N/A	3.53	N/A	3.77	2.15
GFM 200	3.5 TO 14.5	2.00	3.19	4.00	N/A	4.00	1.75
GFM 250	3.5 TO 11	2.50	3.75	4.63	N/A	5.10	3.00
GFM 350	4 TO 12	3.75	4.75	5.96	4.75	6.31	3.00
GFM 375D	*	3.75	4.75	5.96	4.75	6.31	3.00
GFM 425	5 TO 18	4.25	5.44	6.73	5.43	6.73	1.28
GFM 462	4 TO 12	4.62	5.75	7.00	5.75	7.12	4.00
GFM 813	4 TO 12	8.13	8.50	11.10	8.50	11.47	3.00

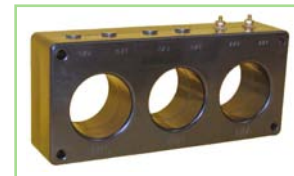
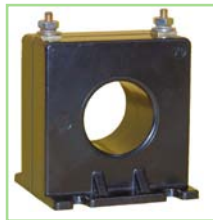
MODEL NUMBER	TRIP CURRENT	SENSOR DIMENSIONS					
		"A1"	"A2"	"A3"	"B1"	"B2"	"B3"
GFM 041 X 071	6 TO 30	4.1	6.4	7.3	7.1	10.0	10.9
* GFM 080 X 117SC	15 TO 65	8.0	9.5	11.1	11.7	14.5	15.4
GFM 080 X 141	9 TO 39	8.0	9.5	11.1	14.1	17.0	17.9

* Model **GFM 080 X 117SC** is split core (take-apart style) for assembly to existing electrical installations without the need for dismantling the primary bus or cables.

CAUTION:

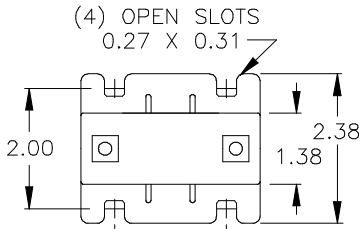
Proper safety precautions must be followed during installation by a trained electrician. It is recommended that the incoming power de-energized before installation. The sensor must have its secondary terminals short circuited or the relay connected, before energizing the primary circuit.

*Dual trip current ranges 3.5 to 11 and 10 to 36.

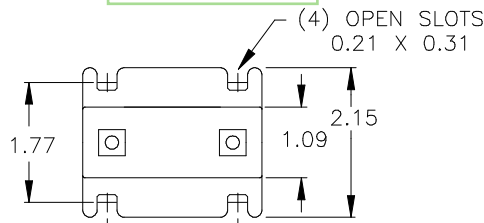


3 HOLE SENSORS

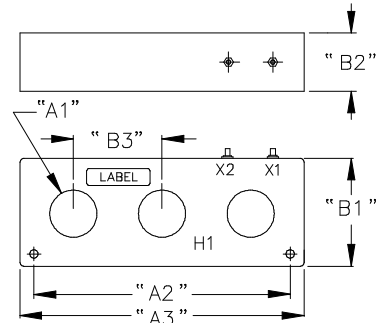
Mounting bracket kits are available for all toroidal sensors except the Model GFM 094, GFM 125, and GFM 156, which have molded mounting feet.



GFM 094
GFM 125



GFM 156



MODEL NUMBER	BRACKET KIT
GFM 200	0221B01976
GFM 250	0221B00541
GFM 375	0221B00259
GFM 375D	0221B00259
GFM 425	0221B00187
GFM 462	0221B01525
GFM 813	0221B00259

MODEL NUMBER	TRIP CURRENT	SENSOR DIMENSIONS					
		"A1"	"A2"	"A3"	"B1"	"B2"	"B3"
GFM 3P205 X 050	4.5 TO 16	*	7.60	8.50	3.70	2.00	2.75
GFM 3P208	5 TO 20	2.08	8.24	9.00	3.94	2.00	2.75
GFM 3P212	7 TO 25	2.12	11.72	12.80	4.87	2.63	4.00

* The Model GFM 3P205 X 050 has a rectangle window 2.05 " X 0.50".

USA, Canada, Asia, Latin America

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Fax: +1-905-201-2455

e-mail: sales.multilin@ge.com

Europe, Middle East, Africa

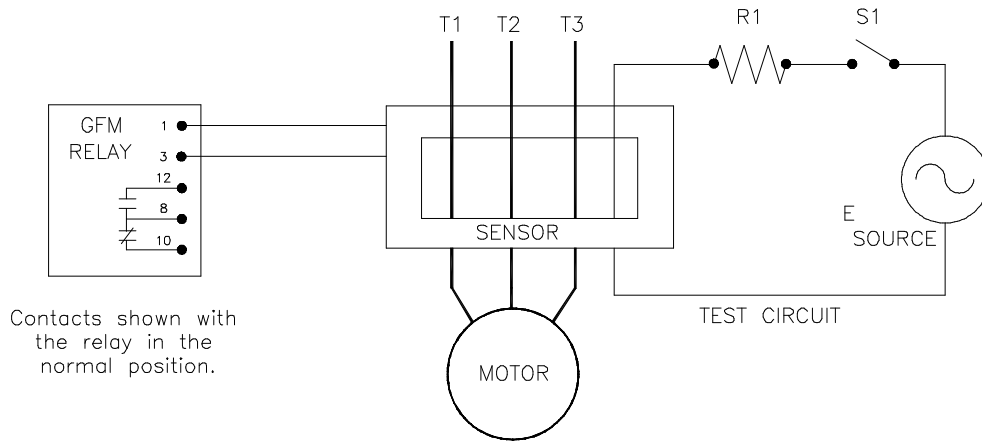
Tel: +34-94-485-88-00

Fax: +34-94-485-88-45

e-mail: gemultilin.euro@ge.com

FIXED DELAY TYPES

GFM Test Procedure



A Simulated fault current can be applied by the above test circuit.
 An appropriate value of R1 should be selected to apply a minimum of 1.5 times maximum trip rating of the sensor.

1. Assure that the GFM relay is in " NORMAL " (reset) position.
2. Close switch S1, and check for reset for response. Relay handle will move to the tripped position.
3. Open S1, reset the relay and remove the test circuit from the system. System is now back to normal.

THE ABOVE TEST PROCEDURES SHOULD BE PERFORMED BY QUALIFIED PERSONNEL ONLY.

➔ **GFM 252**

CASE STYLE	WEIGHT	GFM X X X
2- P.B Style-Door mtg.	6 oz.	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <p>TIME DELAY</p> <p>5- Instantaneous</p> <p>6- Adjustable time delay, up to 36 36 cycles.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>OUTPUT CONTACTS</p> <p>2- 10A form C contacts (case style 2 only)</p> <p>3- 10A form C contacts plus 30A N.O. contacts (on case styles 3 & 4 only)</p> </div> </div>
3- Panel mount	14 oz.	
4- Door mount	16 oz.	

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