

60998

GFP 4P 80A 300MA AC SIE 240/480V

Image not available

- [Product Information](#)

Ordering and Shipping Information

- **Category** 00908 - Supplemental Circuit Protectors, 1 Pole: 15 - 63 Amp, 2 Pole: 1 - 63 Amp, 3 Pole: 1 - 63 Amp, 4 Pole: 1 - 63 Amp, Type Multi 9 C60
- **Discount Schedule** DE2
- **Article Number** 785901800354
- **Package Qty** 1
- **Weight (lbs.)** 0.8
- **Availability Code** N
- **Returnability** Y

Section 4—Ground-Fault Protection Devices

Selection Table

The Multi 9 System includes one UL Listed and three IEC rated product families that provide ground-fault protection. These products are summarized below and discussed in more detail in the following pages.

Table 29: Selection Table for Multi 9 Ground-fault Protection Products

		GFP			ID		C60 Vigi™				
Standard		UL 1053 IEC 61008			IEC 61008		IEC 61009				
Number of Poles		2P	2P	4P	2P	4P	2P	2P	3P	4P	
Rated Current (A) 25°C (77°F)		I_n Pickup		—	25–100	25–100	< 63	< 63	< 63	< 63	
Sensitivities	Instantaneous	10 mA	—	—	—	Yes	—	—	Yes	—	—
		30 mA	25–63	25–63	25–63	Yes	Yes	Yes	Yes	Yes	Yes
		100 mA	25–63	25–63	25–63	—	—	—	—	—	—
		300 mA	25–100	25–100	25–100	Yes	—	Yes	—	—	—
		500 mA	—	—	—	—	—	—	—	—	—
	Selective	300 \square^1	—	—	—	Yes	Yes	—	Yes	Yes	Yes
500 \square^1		—	—	—	—	—	—	—	—	—	
1000 \square^1		—	—	—	—	—	—	Yes	Yes	Yes	
Voltage (Nominal) Vac, 50-60 Hz		120, 240	277, 480Y	240, 480Y/277	240/415		130	240/415			
Time/Current Curve		Depends on Circuit Breaker Used.									
Dimensions (in./mm)	Width	1.42 (36)	1.42 (36)	2.84 (72)	1.42 (36)	2.84 (72)	1.42 (36)	1.42 (36)	2.13 (54)	12.84 (72)	
	Height	3.19 (81)	3.19 (81)	3.19 (81)	3.19 (81)	3.19 (81)	3.19 (81)	3.19 (81)	3.19 (81)	3.19 (81)	
	Depth	3.00 (76)	3.00 (76)	3.00 (76)	3.00 (76)	3.00 (76)	3.00 (76)	3.00 (76)	3.00 (76)	3.00 (76)	
Weight (oz./g)		7.70/ 220	7.70/ 220	15.9/ 450	7.70/ 220	15.9/ 450	2.43/ 120	5.29/ 150	< 25 = 6.35 /180 > 63 = 7.41/210		

¹ \square Selective = has non-adjustable time delay to allow selective coordination

Table 30: Overcurrent Protection Required for UL Applications of GFP

GFP	C60 Circuit Breaker				
	25 A, 240 Vac		20 A, 277 Vac	20 A, 480Y/277 Vac	
	1P and 2P	3 P	1P	2P	3P
2P 240 Vac	10	—	—	—	—
2P 480Y/277 Vac	—	—	10	10	—
4P 480Y/277 Vac	—	10	—	—	10

Multi 9™ System Catalog

Section 4—Ground-Fault Protection Devices

UL 1053 Listed GFP Ground Fault Protectors



The GFP Ground Fault Protector provides ground fault protection for electrical circuits. It will automatically open the circuit in the case of a ground fault between phase and ground greater than 10, 30 or 300 mA, depending on the model. An electromechanical release operates without any auxiliary source of supply to open the circuit. The GFP is available in 2-pole and 4-pole (3 or 4-wire) versions.

NOTE: The GFP has only one protective function—detection of ground fault current. There is no thermal or magnetic overcurrent protection. Therefore, the circuit must be protected upstream by an approved device such as the Multi 9 C60, QOU, QO, or HGL circuit breaker, or a fuse.

Multi 9 GFP products contain *Si* technology to increase immunity to noise and to minimize the potential for nuisance tripping in noisy electrical environments.

The toggle on the front of the GFP is used to reset the device after it has tripped. It should not be used to switch loads. A test button located on the front of the GFP is provided to allow periodic testing of the device. The tripped condition due to ground fault is displayed on the front face by a red mechanical indicator.

Remote monitoring and control can be provided with optional C60 accessories including the OF Auxiliary Switch, SD Alarm Switch, MN Undervoltage Release and/or MX + OF Shunt Trip.

NOTE: These auxiliaries require the use of the OFS Auxiliary Switch (Cat. No. 26923) to adapt to the ID Residual Current Switch.

Table 31: Specifications for UL 1053 Listed GFP Ground Fault Protectors

Voltage Rating	Two Poles at 120 or 240 Vac (-15/+10%)	
	Two Poles at 277 or 480Y/277 Vac (-15/+10%)	
	Four Poles at 240 Vac or 480Y/277 Vac (-15/+10%)	
Current Rating (40°C)	25 A, 40 A, 63 A, 80 A or 100 A	Depending on Catalog Number
Ground Fault Sensitivity:	GFP30	Must Trip at 29.9 mA; Must Not Trip Below 22.1 mA
	GFP100	Must Trip at 98.9 mA; Must Not Trip Below 73.1 mA
	GFP300	Must Trip at 299 mA; Must Not Trip Below 221 mA
Short-Circuit Current Rating	10 kA with Recommended Circuit Breaker or Fuse Upstream	See bulletin GHA1080850AB
Frequency	50 or 60 Hz.	
Mounting	35 mm DIN rail	
Connection, Box Lug	Wire: 75°C copper wire only, stranded or solid 14 to 2 AWG (2.5 to 35 mm ²)	Torque to 31 lb-in (3.5 N•m)
Padlocking in the "Tripped" Position is Possible	Use a Padlocking Device	Requires Addition of OFS on Left Side of Circuit Breaker plus Padlocking Attachment M9PAFL
Ground-Fault Indication	Red Indicator Flag on Front Face	
Temperature	Operating Temperature	-25 to +60°C (-13 to +140°F)
	Storage Temperature	-40 to +70°C (-40 to + 158°F)
Tropicalization	Treatment 2	Relative humidity 95% at 55°C (131°F)
See Table 29 for dimensions and weights		

Standards

- UL 1053
- IEC 61008
- CE Marked

Catalog Numbers

Table 32: Catalog Numbers for UL Rated GFP Ground Fault Protectors

Poles	Voltage	Current	Maximum Sensitivity	Tripping Range	Family	Catalog Number
2P	UL 1053 120/240 V, 240 V 60 Hz	25 A	30 mA	22.1 to 29.9 mA	GFP 30	60949
			100 mA	73.1 to 98.9 mA	GFP 100	60950
			300 mA	221 to 299 mA	GFP 300	60951
		40 A	30 mA	22.1 to 29.9 mA	GFP 30	60952
			100 mA	73.1 to 98.9 mA	GFP 100	60953
			300 mA	221 to 299 mA	GFP 300	60954
	IEC 61008 230 V, 240 V 50 Hz	63 A	30 mA	22.1 to 29.9 mA	GFP 30	60955
			100 mA	73.1 to 98.9 mA	GFP 100	60956
		80 A	300 mA	221 to 299 mA	GFP 300	60957
			100 A	300 mA	221 to 299 mA	GFP 300
2P	UL 1053 277 V, 480Y/277 V 60 Hz	25 A	30 mA	22.1 to 29.9 mA	GFP 30	60969
			100 mA	73.1 to 99.9 mA	GFP 100	60970
			300 mA	221 to 299 mA	GFP 300	60971
		40 A	30 mA	22.1 to 29.9 mA	GFP 30	60972
			100 mA	73.1 to 98.9 mA	GFP 100	60973
			300 mA	221 to 299 mA	GFP 300	60974
	IEC 61008 230/400 V, 240/415 V 50 Hz	63 A	30 mA	22.1 to 29.9 mA	GFP 30	60975
			100 mA	73.1 to 8.9 mA	GFP 100	60976
		80 A	300 mA	221 to 299 mA	GFP 300	60977
			100 A	300 mA	221 to 299 mA	GFP 300
4P	UL 1053 240 V, 480Y/277 V 60 Hz	25 A	30 mA	22.1 to 29.9 mA	GFP 30	60989
			100 mA	73.1 to 98.9 mA	GFP 100	60990
			300 mA	221 to 299 mA	GFP 300	60991
		40 A	30 mA	22.1 to 29.9 mA	GFP 30	60992
			100 mA	73.1 to 98.9 mA	GFP 100	60993
			300 mA	221 to 299 mA	GFP 300	60994
	IEC 61008 230/400 V, 240/415 V 50 Hz	63 A	30 mA	22.1 to 29.9 mA	GFP 30	60995
			100 mA	73.1 to 98.9 mA	GFP 100	60996
		80 A	300 mA	221 to 299 mA	GFP 300	60997
			100 A	300 mA	221 to 299 mA	GFP 300
100 A	300 mA	221 to 299 mA	GFP 300	60999		

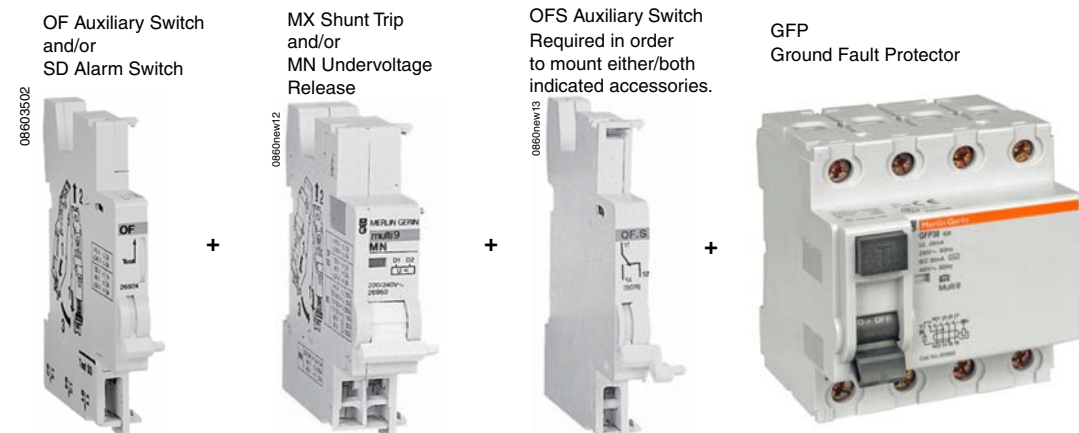


Figure 7: Possible Device Combinations