

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 (not CSA certified)
- IEC 61008
- CE Marked

Multi 9™ System Catalog

Section 4—Ground-Fault Protection Devices

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 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 98.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300	60949 60950 60951
		40 A	30 mA 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 98.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300	60952 60953 60954
	IEC 61008 230 V, 240 V 50 Hz	63 A	30 mA 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 98.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300	60955 60956 60957
		80 A	300 mA	221 to 299 mA	GFP 300	60958
		100 A	300 mA	221 to 299 mA	GFP 300	60959
	2P	UL 1053 277 V, 480Y/277 V 60 Hz	25 A	30 mA 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 99.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300
40 A			30 mA 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 98.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300	60972 60973 60974
IEC 61008 230/400 V, 240/415 V 50 Hz		63 A	30 mA 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 8.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300	60975 60976 60977
		80 A	300 mA	221 to 299 mA	GFP 300	60978
		100 A	300 mA	221 to 299 mA	GFP 300	60979
4P		UL 1053 240 V, 480Y/277 V 60 Hz	25 A	30 mA 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 98.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300
	40 A		30 mA 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 98.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300	60992 60993 60994
	IEC 61008 230/400 V, 240/415 V 50 Hz	63 A	30 mA 100 mA 300 mA	22.1 to 29.9 mA 73.1 to 98.9 mA 221 to 299 mA	GFP 30 GFP 100 GFP 300	60995 60996 60997
		80 A	300 mA	221 to 299 mA	GFP 300	60998
		100 A	300 mA	221 to 299 mA	GFP 300	60999

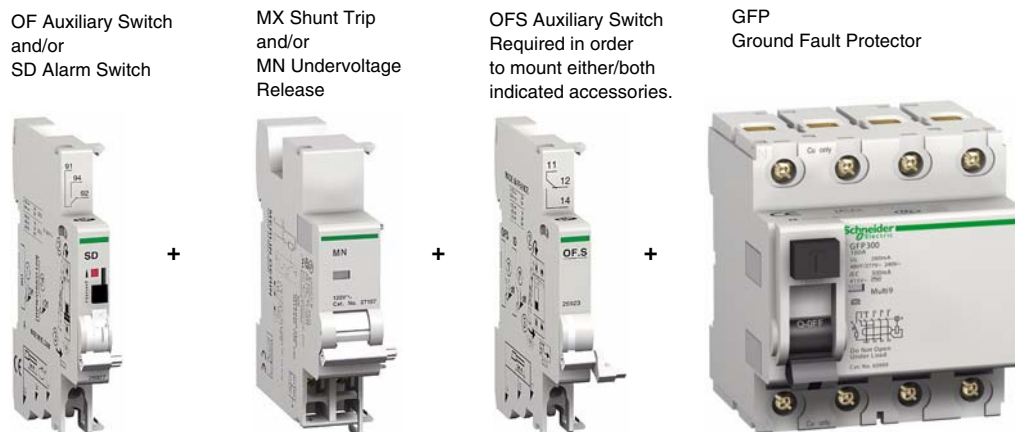


Figure 7: Possible Device Combinations