

Residual current
circuit-breakers



GFP - Ground Fault Protector
UL 1053
IEC 61008



UL 1053 residual current circuit-breakers already protected upstream by a short-circuit and overload protection device are used for:

- control and disconnection of electric circuits
 - protection of people against direct and indirect contacts
 - protection of installations against insulation faults.
- They comply with RCD standards UL 1053 and IEC 61008.

They guarantee:

- enhanced continuity of supply, during a series of close lightning strokes, IT earthing system, equipment including interference suppression filters, variable speed controllers, frequency converters, electronic ballasts for lighting
- enhanced earth leakage protection: in presence of harmonics or high frequency rejections.

"SiE" type GFPs are ideal for operation in environments with a humid atmosphere and/or polluted by aggressive agents: swimming pools, marinas, agri-food industries, water treatment stations, industrial sites, etc.

Compliance with product standards

- UL 1053
- IEC 61008

GFP UL 1053 type AC SiE

Technical data

Voltage rating +10%, -15%	2P	120 or 240 V ~ 60 Hz 230 or 240 V ~ 50 Hz
	2P	480Y/277 V ~ 60 Hz 240 V ~ 60 Hz 230/400 or 240/415 V ~ 50 Hz
	4P	480Y/277 V ~ 60 Hz 240 V ~ 60 Hz 230/400 or 240/415 V ~ 50 Hz
Current rating (Ith) at 40°C		25...100 A
Making and breaking capacity: rated residual current (IΔm)		1,000 A
Rated impulse withstand voltage (Uimp)		6 kV
Utilisation category		AC 23A rating ≤ 63 A AC 22B ratings 80 and 100 A
Level of immunity		In current wave 8/20 μs: 3 kA In dampened recurrent current wave 0.5 μs/100 kHz: 200 A
Short-circuit current withstand (IΔc = Inc)		10 kA with 100 A gG upstream fuse
Test button minimum operating voltage	2P	113 V AC
	4P	189 V AC
Phase-to-phase test circuit		To avoid external bridging on use on three-phase network without neutral
Locking possible in "tripped" position		By padlocking facility (not supplied)
Release with fixed sensitivity for all ratings		Instantaneous release: UL 1053 : ± 15 % IEC 61008 : +0 %, -50 %
Earth fault indication		On front face by red mechanical indicator
Number of cycles (O-C)		20,000 cycles
Tropicalisation		Treatment 2 (relative humidity: 95 % at 55°C)
Degree of protection as per IEC 60529		On front face: IP40/IPXXB Tunnel terminal connection: IP20/IPXXB
Operating temperature		-25°C to +60°C
Storage temperature		-40°C to +70°C
Weight	2P	7.7 oz/220 g
	4P	15.9 oz/450 g
Connection by tunnel terminal for copper cables UL 486A		Flexible or rigid cables #14 to #2 AWG / 2.5 to 35 mm ² Tightening torque 31 lb.-in. / 3.5 N.m

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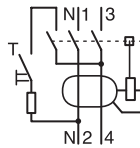


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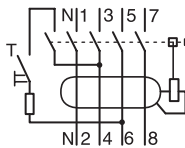
Catalogue numbers

AC Type S _z E	Width in mod. of 9 mm (0.354 in.)	Rating (A)	Sensitivity (mA)		Cat. no.		
			UL 1053	IEC 61008	120 or 240 V	240 V 480Y/277 V 230/400 or 240/415 V	
2P	4	25	26	30	60949	60969	
			86	100	60950	60970	
			260	300	60951	60971	
			40	26	30	60952	60972
				86	100	60953	60973
				260	300	60954	60974
		63	26	30	60955	60975	
			86	100	60956	60976	
			260	300	60957	60977	
		80	260	300	60958	60978	
			100	260	300	60959	60979



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AC Type S _z E	Width in mod. of 9 mm (0.354 in.)	Rating (A)	Sensitivity (mA)		Cat. no.		
			UL 1053	IEC 61008	240 V 480Y/277 V 230/400 or 240/415 V		
4P	8	25	26	30	60989		
			86	100	60990		
			260	300	60991		
			40	26	30	60992	
				86	100	60993	
				260	300	60994	
		63	26	30	60995		
			86	100	60996		
			260	300	60997		
		80	260	300	60998		
			100	260	300	60999	



Coordination

Short-Circuit Current Rating (SCCR)

The Ground-Fault Protector GFP must be used with upstream overcurrent protection suitable for the circuit. GFP is suitable for use on a circuit capable of delivering not more than values (kA) below when protected by devices listed below.

Overcurrent Protection Required for UL applications of GFP

Circuit-breaker type

GFP	C60 240 V 240 V ~		C60 277 V 277 V ~		C60 480Y/277 V 480Y/277 V ~		QOU 120 or 240 V ~		QO 120 or 240 V ~		HDL 240 V ~
	1 and 2P	3P	1P	2P	3P	2P	1 and 2P	3P	1 and 2P	3P	2P
	25 A	25 A	20 A	20 A	20 A	20 A	25 to 70 A	25 to 100 A	25 to 70 A	25 to 100 A	25 to 50 A
2P 240 V ~ ⁽¹⁾	10	-	-	-	-	-	10	-	10	-	65
2P 480Y/277 V ~ ⁽¹⁾	-	-	10	10	-	-	-	-	-	-	-
4P 480Y/277 V ~ ⁽¹⁾	-	10	-	-	10	-	-	10	-	10	-

⁽¹⁾ includes all amperages of GFP

10 Max Short-Circuit Current withstand (kA)