

# DS951 Ground fault equipment protectors w/overcurrent protection UL approved

ABB is pleased to offer the new DS951 series of 1P+N GFEPs (ground fault equipment protectors) with overcurrent protection, approved to UL 1053 as recognized components, making them suitable for installation in equipment and machinery addressed to the North American market.

The DS951 series are equipped with a single two-color red/green operating toggle. Intervention of the device for ground fault is signalled by a blue indicator in a front facing window.



## Technical data

	Product Standard	UL 1053; IEC/EN 61009	
	Type (wave form of the earth leakage sensed)	AC	A
	Poles	1P+N	
	Rated sensitivity $\Delta I_n$	0.03 - 0.3 A	0.01 - 0.03 - 0.3 A
	Pick-up current [UL 1053]	0.65*rated sensitivity $\Delta I_n$	
	Rated current $I_n$	10 A $\leq I_n \leq$ 25 A	6 A $\leq I_n \leq$ 20 A
	Rated voltage $U_n$	230-240 V	
Electrical features	Insulation voltage $U_i$	500 V	
	Max. operating voltage of circuit test	277 V	
	Min. operating voltage of circuit test	110 V	
	Rated frequency	50..60 Hz	
	Rated breaking capacity acc. to IEC/EN 61009	Ultimate $I_{cn}$ : 6kA	
	Rated breaking capacity acc. to IEC/EN 60947-2 1P+N @230 VAC	Ultimate $I_{cu}$ : 10 kA Service $I_{cs}$ : 6 kA	
	Rated residual breaking capacity	$I_{\Delta m}$ : 3 kA	
	Rated impulse withstand voltage (1.2/50) $U_{imp}$	5 kV	
	Dielectric test voltage at ind. freq. for 1 min.	2.5 kV	
	Thermomagnetic release characteristic		B (3 $I_n \leq I_m \leq$ 5 $I_n$ )
		C (5 $I_n \leq I_m \leq$ 10 $I_n$ )	C (5 $I_n \leq I_m \leq$ 10 $I_n$ )
			K (10 $I_n \leq I_m \leq$ 14 $I_n$ )
	Surge current resistance (wave 8/20)	250 A	
Mechanical features	Electrical life	10,000 operations	
	Mechanical life	20,000 operations	
	Protection degree	Housing: IP4X; Terminals: IP2X	
	Ambient temperature (with daily average $\leq +35$ °C)	-25...+55 °C	
	Storage temperature	-40...+70 °C	
Installation	Terminal type	Cage (shock protected)	
	Terminal size top/bottom for cables	Rigid and flexible up to 16/16 mm <sup>2</sup>	
	Tightening torque top/bottom	1.2 N*m	
	Mounting	On DIN rail EN 60715 (35mm) by means of fast clip device	
	Supply	From top and bottom	

Ordering details

Type	Thermomagnetic release characteristic	Rated residual current $I_{\Delta n}$ [mA]	Rated current [A]	Catalog number	Description	
AC	B	30	10	DS951AC-B10/0.03	RCBO DS900 AC 1P+N B 10A 30mA	
			16	DS951AC-B16/0.03	RCBO DS900 AC 1P+N B 16A 30mA	
			20	DS951AC-B20/0.03	RCBO DS900 AC 1P+N B 20A 30mA	
		300	10	DS951AC-B10/0.3	RCBO DS900 AC 1P+N B 10A 300mA	
			16	DS951AC-B16/0.3	RCBO DS900 AC 1P+N B 16A 300mA	
			20	DS951AC-B20/0.3	RCBO DS900 AC 1P+N B 20A 300mA	
	C	30	10	DS951AC-C10/0.03	RCBO DS900 AC 1P+N C 10A 30mA	
			16	DS951AC-C16/0.03	RCBO DS900 AC 1P+N C 16A 30mA	
			20	DS951AC-C20/0.03	RCBO DS900 AC 1P+N C 20A 30mA	
		300	25	DS951AC-C25/0.03	RCBO DS900 AC 1P+N C 25A 30mA	
			10	DS951AC-C10/0.3	RCBO DS900 AC 1P+N C 10A 300mA	
			16	DS951AC-C16/0.3	RCBO DS900 AC 1P+N C 16A 300mA	
A	B	10	10	DS951A-B10/0.01	RCBO DS900 A 1P+N B 10A 10mA	
			13	DS951A-B13/0.01	RCBO DS900 A 1P+N B 13A 10mA	
			16	DS951A-B16/0.01	RCBO DS900 A 1P+N B 16A 10mA	
		30	6	DS951A-B6/0.03	RCBO DS900 A 1P+N B 6A 30mA	
			10	DS951A-B10/0.03	RCBO DS900 A 1P+N B 10A 30mA	
			13	DS951A-B13/0.03	RCBO DS900 A 1P+N B 13A 30mA	
			16	DS951A-B16/0.03	RCBO DS900 A 1P+N B 16A 30mA	
			20	DS951A-B20/0.03	RCBO DS900 A 1P+N B 20A 30mA	
			300	10	DS951A-B10/0.3	RCBO DS900 A 1P+N B 10A 300mA
		C	10	10	DS951A-C10/0.01	RCBO DS900 A 1P+N C 10A 10mA
				13	DS951A-C13/0.01	RCBO DS900 A 1P+N C 13A 10mA
				16	DS951A-C16/0.01	RCBO DS900 A 1P+N C 16A 10mA
	30		10	DS951A-C10/0.03	RCBO DS900 A 1P+N C 10A 30mA	
			13	DS951A-C13/0.03	RCBO DS900 A 1P+N C 13A 30mA	
			16	DS951A-C16/0.03	RCBO DS900 A 1P+N C 16A 30mA	
	300		20	DS951A-C20/0.03	RCBO DS900 A 1P+N C 20A 30mA	
			10	DS951A-C10/0.3	RCBO DS900 A 1P+N C 10A 300mA	
			13	DS951A-C13/0.3	RCBO DS900 A 1P+N C 13A 300mA	
			16	DS951A-C16/0.3	RCBO DS900 A 1P+N C 16A 300mA	
			20	DS951A-C20/0.3	RCBO DS900 A 1P+N C 20A 300mA	
			20	DS951A-C20/0.3	RCBO DS900 A 1P+N C 20A 300mA	
	K	30	10	DS951A-K10/0.03	RCBO DS900 A 1P+N K 10A 30mA	
			16	DS951A-K16/0.03	RCBO DS900 A 1P+N K 16A 30mA	
			20	DS951A-K20/0.03	RCBO DS900 A 1P+N K 20A 30mA	
300		10	DS951A-K10/0.3	RCBO DS900 A 1P+N K 10A 300mA		
		16	DS951A-K16/0.3	RCBO DS900 A 1P+N K 16A 300mA		
		20	DS951A-K20/0.3	RCBO DS900 A 1P+N K 20A 300mA		

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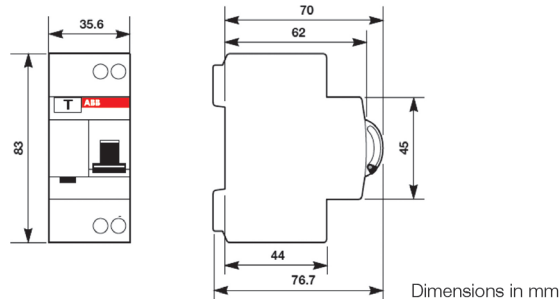


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