

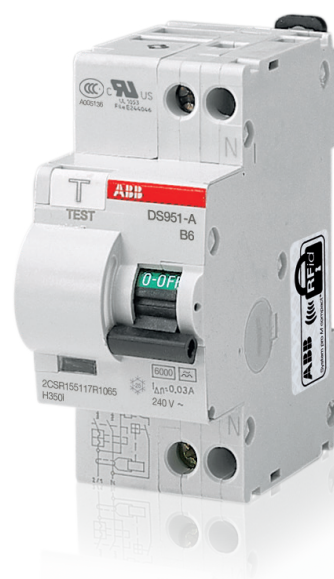
Product note

DS951 UL

1P+N RCBO UL and CCC approved

ABB offers a range of 1P+N RCBOs (Residual current circuit breakers with overcurrent protection) DS951 UL that are approved according to UL 1053 and UL 1077 standard "Ground-Fault Sensing and Relaying Equipment" making them suitable for installation in equipments/ machines addressed to North American market. The devices are also CCC approved, thus they are suitable for Chinese market.

The RCBOs DS951 UL 1053, UL 1077 and CCC approved in only two modules width offer complete protection against overload, short-circuit and ground fault. They are equipped with a single red/green two-color operating toggle and the intervention of the RCBO for ground fault is signalled by means of a blue indicator in a frontal window.



Technical features

Electrical features	Product Standard	IEC 61009-1; IEC 61009-2-1; UL 1053; UL 1077 (supplementary protection)	
	Type (wave form of the earth leakage sensed)	AC	A
	Poles	1P+N	
	Rated sensitivity $I_{\Delta n}$	0,03 - 0,3 A	0,01 - 0,03 - 0,3 A
	Pick-up current [UL 1053]	0,65*rated sensitivity $I_{\Delta n}$	
	Rated current I_n	$10 A \leq I_n \leq 25 A$	$6 A \leq I_n \leq 20 A$
	Rated voltage U_e	230-240 V	
	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 61009-1; IEC 61009-2-1; UL 1053	Ultimate I_{cn} : 6.000A	
	Rated breaking capacity acc. to IEC 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 ($5 I_n \leq I_m \leq 10 I_n$)	B ($3 I_n \leq I_m \leq 5 I_n$) C ($5 I_n \leq I_m \leq 10 I_n$) K ($10 I_n \leq I_m \leq 14 I_n$)
Mechanical features	Surge current resistance (wave 8/20)	250 A	
	Electrical life	10.000 operations	
	Mechanical life	20.000 operations	
	Protection degree	housing: IP4X	terminals: IP2X
	Ambient temperature (with daily average $\leq +35^\circ\text{C}$)	$-25...+55^\circ\text{C}$	
	Storage temperature	$-40...+70^\circ\text{C}$	
Installation	Terminal type	cage (shock protected)	
	Terminal size top/bottom for cables	(rigid and flexible) up to 16/16 mm ²	
	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]	Code	Description	EAN Code	Quantity	Weight (g)
AC	B	30	10	2CSR155017R1105	DS951 B10 AC30	8012542232452	1	200
			16	2CSR155017R1165	DS951 B16 AC30	8012542232551	1	200
			20	2CSR155017R1205	DS951 B20 AC30	8012542232650	1	200
		300	10	2CSR155017R3105	DS951 B10 AC300	8012542232759	1	200
			16	2CSR155017R3165	DS951 B16 AC300	8012542232858	1	200
			20	2CSR155017R3205	DS951 B20 AC300	8012542232957	1	200
	C	30	10	2CSR155017R1104	DS951 C10 AC30	8012542233053	1	200
			16	2CSR155017R1164	DS951 C16 AC30	8012542233152	1	200
			20	2CSR155017R1204	DS951 C20 AC30	8012542233251	1	200
		300	25	2CSR155017R1254	DS951 C25 AC30	8012542233350	1	200
			10	2CSR155017R3104	DS951 C10 AC300	8012542233459	1	200
			16	2CSR155017R3164	DS951 C16 AC300	8012542233558	1	200
A	B	10	10	2CSR155117R0105	DS951 B10 A10	8012542233756	1	200
			13	2CSR155117R0135	DS951 B13 A10	8012542233855	1	200
			16	2CSR155117R0165	DS951 B16 A10	8012542233954	1	200
		30	6	2CSR155117R1065	DS951 B6 A30	8012542234050	1	200
			10	2CSR155117R1105	DS951 B10 A30	8012542234159	1	200
			13	2CSR155117R1135	DS951 B13 A30	8012542234258	1	200
		300	16	2CSR155117R1165	DS951 B16 A30	8012542234357	1	200
			20	2CSR155117R1205	DS951 B20 A30	8012542234456	1	200
			10	2CSR155117R3105	DS951 B10 A300	8012542234555	1	200
			13	2CSR155117R3135	DS951 B13 A300	8012542234654	1	200
			16	2CSR155117R3165	DS951 B16 A300	8012542234753	1	200
			20	2CSR155117R3205	DS951 B20 A300	8012542234852	1	200
	C	10	10	2CSR155117R0104	DS951 C10 A10	8012542234951	1	200
			13	2CSR155117R0134	DS951 C13 A10	8012542235057	1	200
			16	2CSR155117R0164	DS951 C16 A10	8012542235156	1	200
		30	10	2CSR155117R1104	DS951 C10 A30	8012542235255	1	200
			13	2CSR155117R1134	DS951 C13 A30	8012542235354	1	200
			16	2CSR155117R1164	DS951 C16 A30	8012542235453	1	200
		300	20	2CSR155117R1204	DS951 C20 A30	8012542235552	1	200
			10	2CSR155117R3104	DS951 C10 A300	8012542235651	1	200
			13	2CSR155117R3134	DS951 C13 A300	8012542235750	1	200
			16	2CSR155117R3164	DS951 C16 A300	8012542235859	1	200
			20	2CSR155117R3204	DS951 C20 A300	8012542235958	1	200
	K *	30	10	2CSR155117R1107	DS951 K10 A30	8012542236054	1	200
			16	2CSR155117R1167	DS951 K16 A30	8012542236153	1	200
			20	2CSR155117R1207	DS951 K20 A30	8012542236252	1	200
		300	10	2CSR155117R3107	DS951 K10 A300	8012542236351	1	200
			16	2CSR155117R3167	DS951 K16 A300	8012542236450	1	200
			20	2CSR155117R3207	DS951 K20 A300	8012542236559	1	200

*K characteristic only UL approved

Overall dimensions

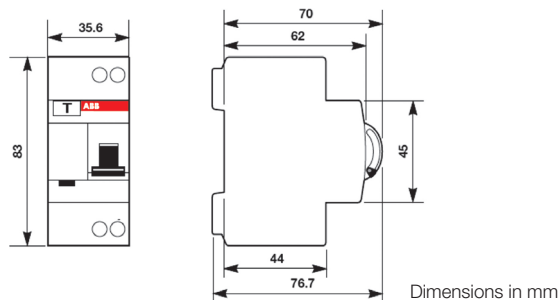


ABB SACE

A division of ABB S.p.A.

Line Protection Devices

Viale dell'Industria, 18
20010 Vittuone (MI) - Italy

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