

DS201 T

1P+N RCBO for railway rolling stock installations



ABB offers a range of 1P+N RCBOs (Residual current devices with overcurrent protection) DS201 T able to meet the demand of a device suitable for installation in rolling stock equipment. DS201 T RCBOs in only two modules are able to provide complete protection against overcurrents and earth fault currents.

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01 DS201 T residual current circuit breaker with overcurrent protection

In the DS201 T range of RCBOs for traction, specific plastic materials are used according to EN 45545 (EU standard for fire safety in trains and track-guided vehicles). Therefore, DS201 T can be used in rolling stock and specifically in those areas where there are more stringent requirements, like passenger area and staff area.

Additionally to the high quality standards and the flammability requirements, rail applications have specific demands that have to be fulfilled like resistance to shocks and vibrations.

The resistance to vibrations and shocks of RCBOs DS201 T has been positively tested according to: IEC 61373 – 2010 – 05 Edition 2.0 Rolling stock equipment – Shock and vibration tests considering Category 1, Class A and Class B.

DS201 T RCBOs share the wide range of accessories of the System pro M compact® family: auxiliary contact (S2C-H6R), signal/ auxiliary contact (S2C-S/H6R), shunt trips (F2C-A..), undervoltage releases (S2C-UA..), overvoltage releases (S2C-OVP..).

Advantages of DS201 T RCBO

- According to EN 45545 EU standard
- Tested according to IEC 61373 – 2010 – 05 Edition 2.0 considering Category 1, Class A and Class B.
- Laser printed information on the device
- Bi-directional cylindrical terminals
- Differential trip indicator
- Contact position indicator (CPI)
- Test push button
- System pro M compact® accessories



DS201 T

Curve	Type	Rated residual current [mA]	Rated current [A]	Order details			Quantity	Weight g	
				Code	Type	EAN code			
A	C	30	6	2CSR255188R1064	DS201T C6 A30	8012542565215	1	239	
		30	10	2CSR255188R1104	DS201T C10 A30	8012542590019	1	239	
		30	13	2CSR255188R1134	DS201T C13 A30	8012542578215	1	239	
		30	16	2CSR255188R1164	DS201T C16 A30	8012542566410	1	239	
		30	20	2CSR255188R1204	DS201T C20 A30	8012542591313	1	239	
		30	25	2CSR255188R1254	DS201T C25 A30	8012542579519	1	239	
		30	32	2CSR255188R1324	DS201T C32 A30	8012542567714	1	239	
		30	40	2CSR255188R1404	DS201T C40 A30	8012542589914	1	239	
	B	30	6	2CSR255188R1065	DS201T B6 A30	8012542578116	1	239	
		30	10	2CSR255188R1105	DS201T B10 A30	8012542566311	1	239	
		30	13	2CSR255188R1135	DS201T B13 A30	8012542591214	1	239	
		30	16	2CSR255188R1165	DS201T B16 A30	8012542579410	1	239	
		30	20	2CSR255188R1205	DS201T B20 A30	8012542567615	1	239	
		30	25	2CSR255188R1255	DS201T B25 A30	8012542588719	1	239	
		30	32	2CSR255188R1325	DS201T B32 A30	8012542576914	1	239	
		30	40	2CSR255188R1405	DS201T B40 A30	8012542565116	1	239	
	K	30	6	2CSR255188R1067	DS201T K6 A30	8012542589815	1	239	
		30	10	2CSR255188R1107	DS201T K10 A30	8012542578017	1	239	
		30	13	2CSR255188R1137	DS201T K13 A30	8012542566212	1	239	
		30	16	2CSR255188R1167	DS201T K16 A30	8012542587910	1	239	
		30	20	2CSR255188R1207	DS201T K20 A30	8012542576112	1	239	
		30	25	2CSR255188R1257	DS201T K25 A30	8012542564317	1	239	
		30	32	2CSR255188R1327	DS201T K32 A30	8012542591115	1	239	
		30	40	2CSR255188R1407	DS201T K40 A30	8012542579311	1	239	
	APR	C	30	6	2CSR255488R1064	DS201T C6 APR30	8012542567516	1	239
			30	10	2CSR255488R1104	DS201T C10 APR30	8012542588610	1	239
			30	13	2CSR255488R1134	DS201T C13 APR30	8012542576815	1	239
			30	16	2CSR255488R1164	DS201T C16 APR30	8012542565017	1	239
30			20	2CSR255488R1204	DS201T C20 APR30	8012542589716	1	239	
30			25	2CSR255488R1254	DS201T C25 APR30	8012542577911	1	239	
30			32	2CSR255488R1324	DS201T C32 APR30	8012542566113	1	239	
30			40	2CSR255488R1404	DS201T C40 APR30	8012542591016	1	239	
B		30	6	2CSR255488R1065	DS201T B6 APR30	8012542579212	1	239	
		30	10	2CSR255488R1105	DS201T B10 APR30	8012542567417	1	239	
		30	13	2CSR255488R1135	DS201T B13 APR30	8012542589617	1	239	
		30	16	2CSR255488R1165	DS201T B16 APR30	8012542577812	1	239	
		30	20	2CSR255488R1205	DS201T B20 APR30	8012542566014	1	239	
		30	25	2CSR255488R1255	DS201T B25 APR30	8012542590910	1	239	
		30	32	2CSR255488R1325	DS201T B32 APR30	8012542579113	1	239	
		30	40	2CSR255488R1405	DS201T B40 APR30	8012542567318	1	239	



DS201 T

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Electrical features	Product Standard	IEC/ EN 61009
	Classification according to NF F 16-101/102	I2-F3
	Resistance to shocks and vibrations	Tested according to IEC 61373 – 2010 – 05 Edition 2.0 considering Category 1, Class A and Class B.
	Type (wave form of the earth leakage sensed)	A - APR
	Poles	1P+N
	Rated current I_n	$6 \leq I_n \leq 40$
	Rated sensitivity $I_{\Delta n}$	0,03 A
	Rated voltage U_e	230-240 V
	Insulation voltage U_i	500 V
	Max. operating voltage of circuit test	264 V
	Min. operating voltage of circuit test	170 V
	Rated frequency	50/60 Hz
	Rated breaking capacity acc. to IEC/EN 61009	Ultimate I_{cn} : 6.000A
	Rated breaking capacity acc. to IEC/EN 60947-2 1P+N @230 V AC	Ultimate I_{cu} : 10 kA Service I_{cs} : 6 kA
	Rated residual breaking capacity	$I_{\Delta m}$: 6 kA
	Rated impulse withstand voltage (1.2/50) U_{imp}	4 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: $5 I_n \leq I_m \leq 10 I_n$ K: $10 I_n \leq I_m \leq 14 I_n$
	Surge current resistance (wave 8/20)	NA for A version; 3000 for APR version
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	failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected)
	Terminal size top/bottom for cables	(rigid and flexible) up to 25/25 mm ²
	Terminal size top/bottom for busbars	10/10 mm ²
	Tightening torque top/bottom	2.8 Nm
	Mounting	on DIN rail EN 60715 (35mm) by means of fast clip device
	Supply	from top and bottom

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Overall dimensions DS201 T

All measurements in mm

