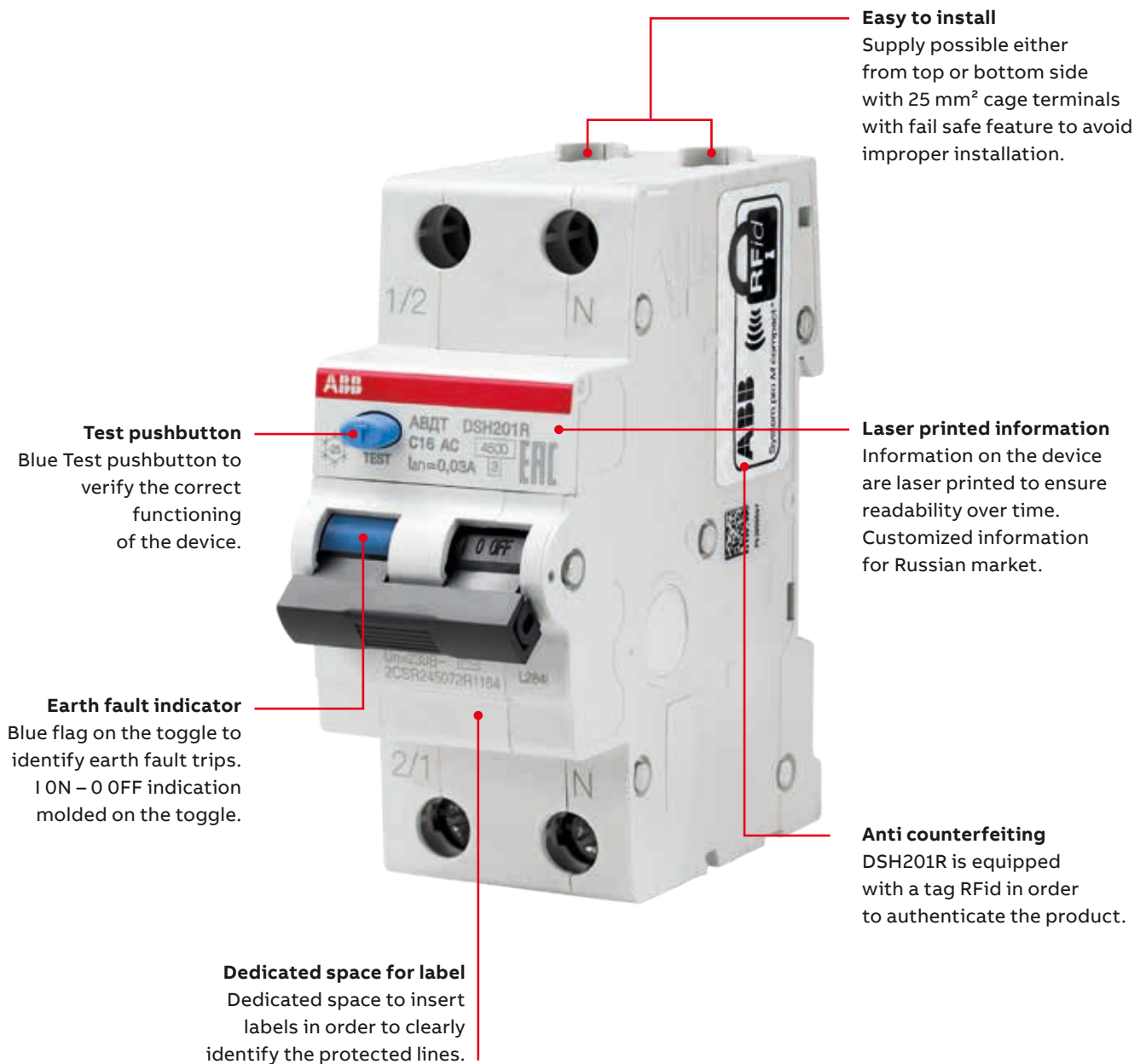


RCBO DSH201R

Compact solutions for a complete protection in residential applications



RCBOs DSH201R

Better Look & Feel with ABB's Compact Home range



25 mm² cage terminals with fail safe feature to avoid improper installation. Supply possible either from top or bottom side, with cables and busbars (either PSH and PS). Stable fixing on DIN rail, easy and fast mounting and dismantling operations thanks to the standard mounting clip.



Main technical information and product code are laser printed on the front side, visible also when the device is installed. Customized layout for Russian market, with indication in Cyrillic and EAC logo. Blue test pushbutton dedicated only for Russia. Range of temperatures from -25 °C (as indicated by the snowflake) up to +55 °C.



Product Made in Italy, with the indication molded on the side. RFid tag on the product side containing a unique serial number assigned to ABB according to the standard ISO/IEC FCD 15693-3 in order to authenticate the product. Tightening torque and stripping length of the cable molded directly on the product side.



Additional information are laser printed on the lateral side of the device, including also the wiring diagram and the EAN code.



Any earth fault can be immediately identified through the blue indicator, that signals the differential tripping and which cannot be activated in case of manual operation on the toggle. Easy troubleshooting and reduced downtime for maintenance operations.

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Technical features



DSH201R

			DSH201R	
Electrical features	Standards		IEC/EN 61009-1; IEC/EN 61009-2-1	
	Type (wave form of the earth leakage sensed)		AC	
	Number of poles		1P + N	
	Rated current I_n	A	$6 \leq I_n \leq 40$	
	Rated sensitivity Δn	A	0.03	
	Rated voltage U_e	V	230	
	Insulation voltage U_i	V	500 V AC	
	Overvoltage category		III	
	Pollution degree		2	
	Operating voltage of circuit test U_t	V	170 - 254	
	Rated frequency	Hz	50	
	Rated breaking capacity acc. to IEC/EN 61009-1	I_{cn}	A	4500
	Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	ultimate I_{cu}	kA	6
		service I_{cs}	kA	4.5
	Rated residual breaking capacity Δm according to EN/IEC 61009-1	A		3000
	Rated impulse withstand voltage (1.2/50) U_{imp}	kV		4 kV
	Dielectric test voltage at ind. freq. for 1 min.	kV		2.5 kV (50 / 60Hz, 1 min.)
	Thermomagnetic release characteristic	C: $5 I_n \leq I_n \leq 10 I_n$		■
	Energy limiting class acc. to EN 61009-1			3
	Mechanical features	Housing		Insulation group I - II, RAL 7035
Toggle		Insulation group II, Black RAL 9005, sealable in ON-OFF positions		
Earth fault trip indication		Blue flag on toggle		
Electrical life		operations	10000	
Mechanical life		operations	20000	
Protection degree acc. to EN 60529		housing		IP4X
		terminals		IP2X
Shock resistance acc. to IEC/EN 60068-2-27				25 g - 2 shocks - 13 ms
Vibration resistance acc. to IEC/EN 60068-2-6				0.1 mm or 1 g - 20 cycles at 5...150...5 Hz
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH		28 cycles with 55 °C/90-96% and 25 °C/95-100%
Reference temperature for setting of thermal element		°C		30
Ambient temperature (with daily average $\leq +35$ °C)		°C		-25...+55
Storage temperature		°C		-40...+70
Installation		Terminal type	top / bottom	cage terminal with integrated failsafe
	Terminal size for cables	top / bottom	mm ² 25/25	
	Tightening torque	top / bottom	Nm 2	
	Stripping length of the cable		mm 12.5	
	Mounting		on DIN rail EN 60715 (35 mm) by means of mounting clip	
	Mounting position		Any	
	Supply from		Top/Bottom terminals	
	Dimensions and weight	Dimensions (H x D x W)	mm	85 x 69 x 35
Weight		g	182	

RCBOs DSH201R

Ordering codes



DSH201R

DSH201R 4500 AC type, C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 4500$ A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	343318	DSH201R C6 AC30	2CSR245072R1064		0.182	1
		10	343219	DSH201R C10 AC30	2CSR245072R1104		0.182	1
		16	343110	DSH201R C16 AC30	2CSR245072R1164		0.182	1
		20	343011	DSH201R C20 AC30	2CSR245072R1204		0.182	1
		25	342915	DSH201R C25 AC30	2CSR245072R1254		0.182	1
		32	776710	DSH201R C32 AC30	2CSR245072R1324		0.182	1
		40	342816	DSH201R C40 AC30	2CSR245072R1404		0.182	1

Connection with busbars

Cage terminals are designed for installation with PSH busbars, but combination is also possible with PS versions.

Details of the most common 12-pins versions below.

No. of pins	Phases	mm ²	Cu-No. Kg	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece Kg	Pack unit pc.
					Type code	Order code			
12	2	10	0.07	651882	PSH 2/12 ¹⁾	2CDL120001R1012		0.08	50
12	2	10	0.07	556521	PS2/12 ¹⁾	2CDL220001R1012		0.08	50

¹⁾ inclusive of end caps

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Dimensions

Overall dimensions

All measurements in mm

