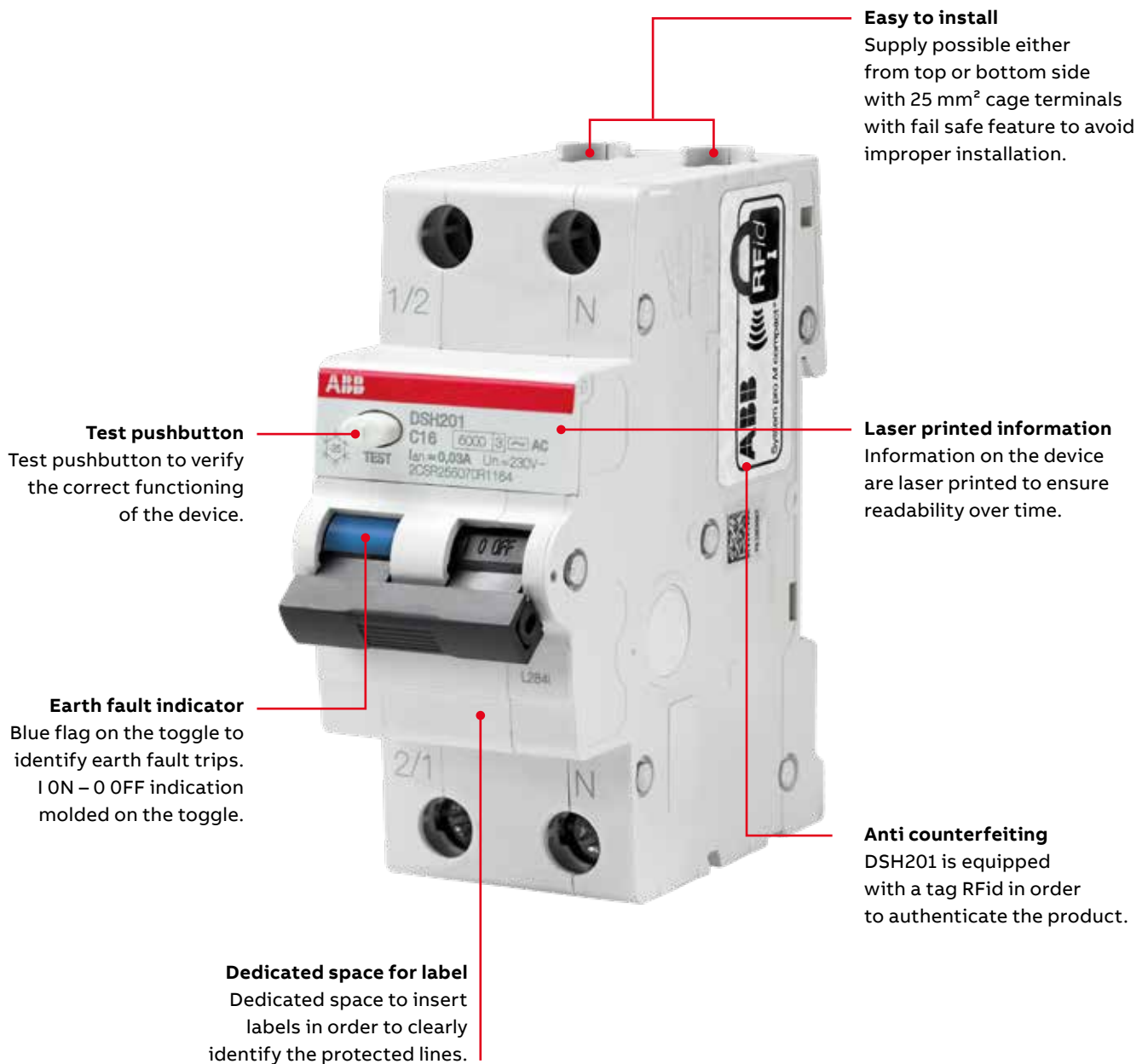


# RCBO DSH201

Compact solutions for a complete protection in residential applications



## RCBOs DS201

# Better Look & Feel with ABB's Compact Home range



25 mm<sup>2</sup> cage terminals with fail safe feature to avoid improper installation. Supply possible either from top or bottom side, with cables and busbars (from PSH series).

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.

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. RFI 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.

## RCBOs DSH201

### Technical features



DSH201

			DSH201	
Electrical features	Standards		IEC/EN 61009-1; IEC/EN 61009-2-1	
	Type (wave form of the earth leakage sensed)		AC, A	
	Number of poles		1P + N	
	Rated current $I_n$	A	$6 \leq I_n \leq 40$	
	Rated sensitivity $\Delta I_n$	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	6000
	Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	ultimate $I_{cu}$	kA	10
		service $I_{cs}$	kA	6
	Rated residual breaking capacity $\Delta I_m$ 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	B: $3 I_n \leq I_n \leq 5 I_n$		■
		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 <sup>2</sup>	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 DSH201

### Ordering codes



DSH201

#### DSH201 6000 AC type and A type, C and B characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating (only for A type) 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**

**$I_{cn} = 6000$  A**

N. poles	Type	Rated residual current $I_{\Delta n}$ mA	Tripping char.	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	AC	30	B	6	344018	DSH201 B6 AC30	2CSR255070R1065	0.182	1	
				10	354215	DSH201 B10 AC30	2CSR255070R1105	0.182	1	
				16	343912	DSH201 B16 AC30	2CSR255070R1165	0.182	1	
				20	354116	DSH201 B20 AC30	2CSR255070R1205	0.182	1	
				25	343813	DSH201 B25 AC30	2CSR255070R1255	0.182	1	
				32	354017	DSH201 B32 AC30	2CSR255070R1325	0.182	1	
				40	343714	DSH201 B40 AC30	2CSR255070R1405	0.182	1	
	C	6	353911	DSH201 C6 AC30	2CSR255070R1064	0.182	1			
		10	343615	DSH201 C10 AC30	2CSR255070R1104	0.182	1			
		13	244035	DSH201 C13 AC30	2CSR255070R1134	0.182	1			
		16	353812	DSH201 C16 AC30	2CSR255070R1164	0.182	1			
		20	343516	DSH201 C20 AC30	2CSR255070R1204	0.182	1			
		25	353713	DSH201 C25 AC30	2CSR255070R1254	0.182	1			
		32	343417	DSH201 C32 AC30	2CSR255070R1324	0.182	1			
1+N	A	30	B	6	237532	DSH201 B6 A30	2CSR255170R1065	0.182	1	
				10	237433	DSH201 B10 A30	2CSR255170R1105	0.182	1	
				16	237334	DSH201 B16 A30	2CSR255170R1165	0.182	1	
				20	237235	DSH201 B20 A30	2CSR255170R1205	0.182	1	
				25	237236	DSH201 B25 A30	2CSR255170R1255	0.182	1	
				32	237037	DSH201 B32 A30	2CSR255170R1325	0.182	1	
				40	236931	DSH201 B40 A30	2CSR255170R1405	0.182	1	
	C	6	269236	DSH201 C6 AC30	2CSR255170R1064	0.182	1			
		10	236832	DSH201 C10 AC30	2CSR255170R1104	0.182	1			
		13	236733	DSH201 C13 AC30	2CSR255170R1134	0.182	1			
		16	236634	DSH201 C16 AC30	2CSR255170R1164	0.182	1			
		20	236535	DSH201 C20 AC30	2CSR255170R1204	0.182	1			
		25	236436	DSH201 C25 AC30	2CSR255170R1254	0.182	1			
		32	236337	DSH201 C32 AC30	2CSR255170R1324	0.182	1			
40	236238	DSH201 C40 AC30	2CSR255170R1404	0.182	1					

#### Connection with busbars

Cage terminals are designed for installation with PSH busbars.

Details of the most common 12-pins versions.

No. of pins	Phases	mm <sup>2</sup>	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 <sup>1)</sup>	2CDL120001R1012	0.08	50	

<sup>1)</sup> inclusive of end caps

## RCBOs DSH201

### Dimensions

#### Overall dimensions

All measurements in mm

