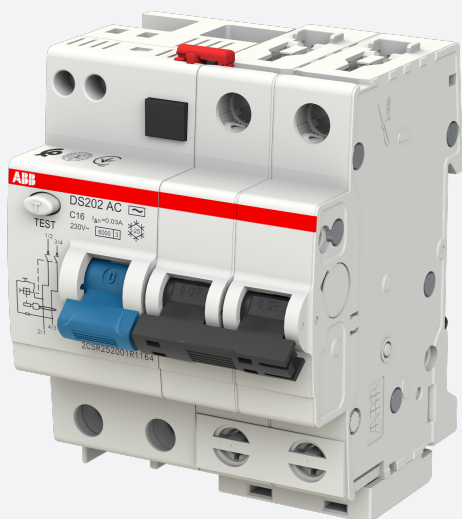


RCBO DS200 series

Data sheet



The DS200 series (DS202, DS203 and DS204) is Residual Current Circuit Breaker with Overcurrent Protection, factory fitted with DDA200 and MCB.

This solution enables the protection of demanding applications with an expected rated current of more than 32A / 40A, which is the limit of DS201 and DS203NC, while reducing installation time.

01

01 DS202: residual current circuit breaker with overcurrent protection

DS200 series is a 2P, 3P and 4P RCBOs series compliant to product standard IEC/EN 61009-2-1 with the following main technical features:

- Breaking capacity I_{cn} = 6 kA and 10 kA
- Type AC, A
- Sensitivity 30 mA
- Tripping characteristics B, C and K
- Rated current from 6 to 63 A

Application benefits

Easy to install

The RCCB is factory-mounted on the MCB to simplify assembly and speed up wiring, thanks to the two slots with different dimensions that allow connection with both cables and busbars.

Continuous operation

Reduced downtime for maintenance thanks to the earth fault indicator. Quick and easy identification of the contact status thanks to the CPI window.

Expandability

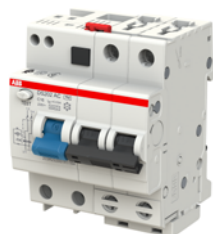
Offers a wide range of accessories with many different functions

Made in Italy

Product Made in Italy, with the indication molded on the side.

RCBOs DS200

Technical features



DS200

Standards			
Electrical features	Operating characteristic: type (wave form of the earth leakage sensed)		
	Poles		
	Rated sensitivity $I_{\Delta n}$		A
	Rated current I_n		A
	Rated operational voltage U_e	2P	V
		3P, 4P	V
	Rated Insulation voltage U_i acc. to IEC/EN 60664-1		V
	Operating voltage of circuit test U_t	2P	V
		3P	V
		4P	V
	Rated frequency f		Hz
	Rated short circuit breaking capacity acc. to IEC/EN 61009-1	ultimate I_{cn}	A
		ultimate I_{cu}	kA
		service I_{cs}	kA
	Grid distance		mm
	Rated residual breaking capacity $I_{\Delta m}$		kA
	Rated impulse withstand voltage U_{imp} . (1.2/50 μ s)		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
	Overvoltage category		
	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)		A
Mechanical features	Toggle Type		2P, 3P, 4P
	Contact position indication		
	Electrical Endurance		cycles (OFF-ON-OFF)
	Mechanical Endurance		cycles (OFF-ON-OFF)
	Protection degree	housing	
		terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Resistance to Shock acc. to IEC 60068-2-27		
	Resistance to Vibrations acc. to IEC 60068-2-6		
	Reference temperature for tripping characteristics		°C
Installation	Ambient temperature (with daily average $\leq +35$ °C)		°C
	Storage temperature		°C
	Terminal type	top	
		bottom 2P	
		3P/4P $I_n \leq 40$ A	
	Cross-section of conductors (IEC)	3P/4P $50 A \leq I_n \leq 63 A$	
		2P	mm ²
		3P/4P $I_n \leq 40$ A	mm ²
	Cross-section of busbars (IEC)	3P/4P $50 A \leq I_n \leq 63 A$	
		2P	Nm
		3P/4P $I_n \leq 40$ A	Nm
	3P/4P $50 A \leq I_n \leq 63 A$		Nm
	Mounting Type		
	Mounting position		
	Connection		

① Available depending on type and characteristic curve. For 2P RCBOs A type B-C curves up to 32 A, refer to DS202CR 2 protected poles RCBOs in only two modules.

② Prior to connection of aluminium conductors (≥ 4 mm²) ensure that their contact points are cleaned, brushed and coated with grease.

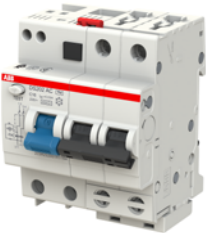
RCBOs DS200

Technical features

DS200 AC	DS200 A	DS200M AC	DS200M A
IEC/EN 61009-1; IEC/EN 61009-2-1; IEC/EN 60947-2			
AC	A	AC	A
2P, 3P, 4P			
0.03			
6 ≤ In ≤ 63 ①			
230-240			
230/400 - 240/415			
500			
110 (170 for 30 mA) - 254			
195 (300 for 30 mA) - 440			
195 (300 for 30 mA) - 440			
50...60			
6000	6000	10000	10000
10	10	15	15
7.5	7.5	11.2	11.2
35	35	35	35
6	6	10	10
6			
2.5			
III, disconnecter abilities			
■	■	■	■
■	■	■	■
	■		
NA			
black (MCB) sealable in ON-OFF position + blue (RCD)			
CPI on window			
10000			
20000			
IP40			
IP20			
28 cycles with 55°C/90-96% and 25°C/95-100%			
25g - 2 shocks - 13ms			
0.1 mm or 1 g - 20 cycles at 5...150...5 Hz			
30			
-25...+55			
-40...+70			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
cage (shock protected)			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
rigid: 35/25 flexible: 25/25			
rigid: 35/25 flexible: 25/16			
rigid : 35/25 flexible : 25/25			
2.8/2.8			
2.8/1.2			
2.8/2.8			
on DIN rail EN 60715 (35 mm) by means of fast clip device			
Any			
715 (35 mm) by means of fast clip devicefrom top and bottom			

RCBOs DS200

Technical features



DS200

Dimensions and weight	Dimensions (H x D x W)	2P	mm
		3P $I_n \leq 40\text{ A}$	mm
		4P $I_n \leq 40\text{ A}$	mm
		3P $50\text{ A} \leq I_n \leq 63\text{ A}$	mm
		4P $50\text{ A} \leq I_n \leq 63\text{ A}$	mm
	Weight	2P	g
		3P $I_n \leq 40\text{ A}$	g
		4P $I_n \leq 40\text{ A}$	g
		3P $50\text{ A} \leq I_n \leq 63\text{ A}$	g
		4P $50\text{ A} \leq I_n \leq 63\text{ A}$	g
Combination with auxiliary elements	Combinable with:	auxiliary contact	
		signal contact/auxiliary switch	
		shunt trip	
		undervoltage release	



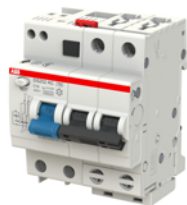
RCBOs DS200

Technical features

DS200 AC	DS200 A	DS200 M AC	DS200 M A
85 x 69 x 70			
85 x 69 x 87.5			
85 x 69 x 105			
85 x 69 x 122.5			
85 x 69 x 140			
475			
625			
775			
775			
925			
yes			
yes			
yes			
yes			

RCBOs DS200

DS200 series $\boxed{6000}$ - AC $\sim$ type, B characteristic



DS202

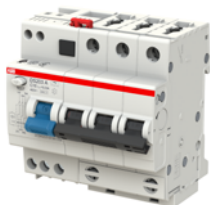
DS200 AC type, B characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

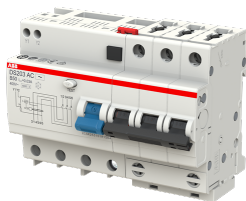
Application: commercial, industrial, residential.

Standard: IEC/EN 61009-1, IEC/EN 61009-2-1 and IEC/EN 60947-2

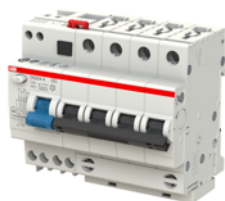
Icn = 6 kA



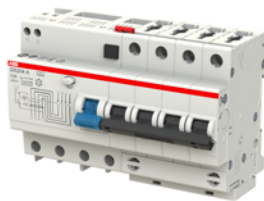
DS203 6A to 40A



DS203 50A and 63A



DS204 6A to 40A



DS204 50A and 63A

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			
2	30	6	863502	DS202 AC-B6/0.03	2CSR252001R1065		0.440	1
		10	863601	DS202 AC-B10/0.03	2CSR252001R1105		0.440	1
		13	863700	DS202 AC-B13/0.03	2CSR252001R1135		0.440	1
		16	863809	DS202 AC-B16/0.03	2CSR252001R1165		0.440	1
		20	863908	DS202 AC-B20/0.03	2CSR252001R1205		0.440	1
		25	864004	DS202 AC-B25/0.03	2CSR252001R1255		0.440	1
		32	864103	DS202 AC-B32/0.03	2CSR252001R1325		0.440	1
		40	864202	DS202 AC-B40/0.03	2CSR252001R1405		0.440	1
		50 ①	864301	DS202 AC-B50/0.03	2CSR252001R1505		0.440	1
		63 ①	864400	DS202 AC-B63/0.03	2CSR252001R1635		0.440	1

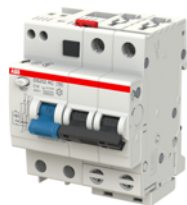
Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	865506	DS203 AC-B6/0.03	2CSR253001R1065		0.610	1
		10	865605	DS203 AC-B10/0.03	2CSR253001R1105		0.610	1
		13	865704	DS203 AC-B13/0.03	2CSR253001R1135		0.610	1
		16	865803	DS203 AC-B16/0.03	2CSR253001R1165		0.610	1
		20	865902	DS203 AC-B20/0.03	2CSR253001R1205		0.610	1
		25	866008	DS203 AC-B25/0.03	2CSR253001R1255		0.610	1
		32	866107	DS203 AC-B32/0.03	2CSR253001R1325		0.610	1
		40	866206	DS203 AC-B40/0.03	2CSR253001R1405		0.610	1
		50 ①	866305	DS203 AC-B50/0.03	2CSR253001R1505		0.650	1
		63 ①	866404	DS203 AC-B63/0.03	2CSR253001R1635		0.650	1

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			
4	30	6	867500	DS204 AC-B6/0.03	2CSR254001R1065		0.780	1
		10	867609	DS204 AC-B10/0.03	2CSR254001R1105		0.780	1
		13	867708	DS204 AC-B13/0.03	2CSR254001R1135		0.780	1
		16	867807	DS204 AC-B16/0.03	2CSR254001R1165		0.780	1
		20	867906	DS204 AC-B20/0.03	2CSR254001R1205		0.780	1
		25	868002	DS204 AC-B25/0.03	2CSR254001R1255		0.780	1
		32	868101	DS204 AC-B32/0.03	2CSR254001R1325		0.780	1
		40	868200	DS204 AC-B40/0.03	2CSR254001R1405		0.780	1
		50 ①	868309	DS204 AC-B50/0.03	2CSR254001R1505		0.825	1
		63 ①	868408	DS204 AC-B63/0.03	2CSR254001R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs DS200

DS200 series 6000 - AC  type, C characteristic



DS202

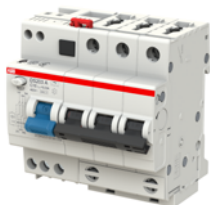
DS200 AC type, C characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

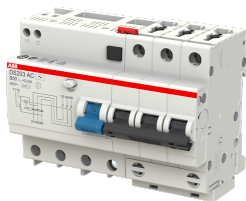
Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2

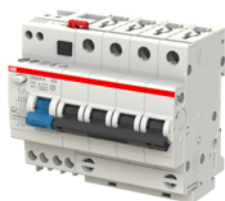
I_{cn} = 6 kA



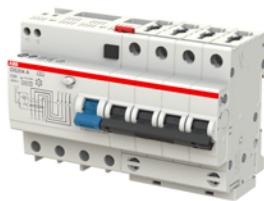
DS203 6A to 40A



DS203 50A and 63A



DS204 6A to 40A



DS204 50A and 63A

Number of poles	Rated residual current I _{Δn} 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			
2	30	6	869504	DS202 AC-C6/0.03	2CSR252001R1064		0.440	1
		10	869603	DS202 AC-C10/0.03	2CSR252001R1104		0.440	1
		13	869702	DS202 AC-C13/0.03	2CSR252001R1134		0.440	1
		16	869801	DS202 AC-C16/0.03	2CSR252001R1164		0.440	1
		20	869900	DS202 AC-C20/0.03	2CSR252001R1204		0.440	1
		25	870005	DS202 AC-C25/0.03	2CSR252001R1254		0.440	1
		32	870104	DS202 AC-C32/0.03	2CSR252001R1324		0.440	1
		40	870203	DS202 AC-C40/0.03	2CSR252001R1404		0.440	1
		50 ①	870302	DS202 AC-C50/0.03	2CSR252001R1504		0.440	1
		63 ①	870401	DS202 AC-C63/0.03	2CSR252001R1634		0.440	1

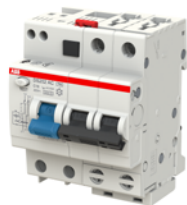
Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	871507	DS203 AC-C6/0.03	2CSR253001R1064		0.610	1
		10	871606	DS203 AC-C10/0.03	2CSR253001R1104		0.610	1
		13	871705	DS203 AC-C13/0.03	2CSR253001R1134		0.610	1
		16	871804	DS203 AC-C16/0.03	2CSR253001R1164		0.610	1
		20	871903	DS203 AC-C20/0.03	2CSR253001R1204		0.610	1
		25	872009	DS203 AC-C25/0.03	2CSR253001R1254		0.610	1
		32	872108	DS203 AC-C32/0.03	2CSR253001R1324		0.610	1
		40	872207	DS203 AC-C40/0.03	2CSR253001R1404		0.610	1
		50 ①	872306	DS203 AC-C50/0.03	2CSR253001R1504		0.650	1
		63 ①	872405	DS203 AC-C63/0.03	2CSR253001R1634		0.650	1

Number of poles	Rated residual current I _{Δn} 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			
4	30	6	873501	DS204 AC-C6/0.03	2CSR254001R1064		0.780	1
		10	873600	DS204 AC-C10/0.03	2CSR254001R1104		0.780	1
		13	873709	DS204 AC-C13/0.03	2CSR254001R1134		0.780	1
		16	873808	DS204 AC-C16/0.03	2CSR254001R1164		0.780	1
		20	873907	DS204 AC-C20/0.03	2CSR254001R1204		0.780	1
		25	874003	DS204 AC-C25/0.03	2CSR254001R1254		0.780	1
		32	874102	DS204 AC-C32/0.03	2CSR254001R1324		0.780	1
		40	874201	DS204 AC-C40/0.03	2CSR254001R1404		0.780	1
		50 ①	874300	DS204 AC-C50/0.03	2CSR254001R1504		0.825	1
		63 ①	874409	DS204 AC-C63/0.03	2CSR254001R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs DS200

DS200 series 6000 - A  type, B characteristic



DS202

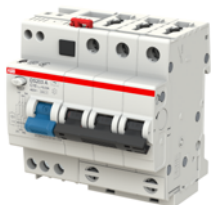
DS200 A type, B characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

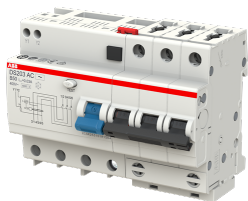
Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2

Icn = 6 kA



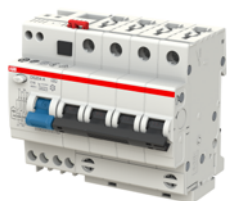
DS203 6A to 40A



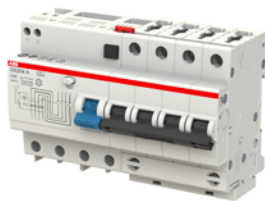
DS203 50A and 63A

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	40	858201	DS202 A-B40/0.03	2CSR252101R1405		0.440	1
		50 ①	858300	DS202 A-B50/0.03	2CSR252101R1505		0.440	1
		63 ①	858409	DS202 A-B63/0.03	2CSR252101R1635		0.440	1

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	858508	DS203 A-B6/0.03	2CSR253101R1065		0.610	1
		10	858607	DS203 A-B10/0.03	2CSR253101R1105		0.610	1
		13	858706	DS203 A-B13/0.03	2CSR253101R1135		0.610	1
		16	858805	DS203 A-B16/0.03	2CSR253101R1165		0.610	1
		20	858904	DS203 A-B20/0.03	2CSR253101R1205		0.610	1
		25	859000	DS203 A-B25/0.03	2CSR253101R1255		0.610	1
		32	859109	DS203 A-B32/0.03	2CSR253101R1325		0.610	1
		40	859208	DS203 A-B40/0.03	2CSR253101R1405		0.610	1
		50 ①	859307	DS203 A-B50/0.03	2CSR253101R1505		0.650	1
		63 ①	859406	DS203 A-B63/0.03	2CSR253101R1635		0.650	1



DS204 6A to 40A



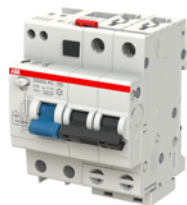
DS204 50A and 63A

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	859505	DS204 A-B6/0.03	2CSR254101R1065		0.780	1
		10	859604	DS204 A-B10/0.03	2CSR254101R1105		0.780	1
		13	859703	DS204 A-B13/0.03	2CSR254101R1135		0.780	1
		16	859802	DS204 A-B16/0.03	2CSR254101R1165		0.780	1
		20	859901	DS204 A-B20/0.03	2CSR254101R1205		0.780	1
		25	860006	DS204 A-B25/0.03	2CSR254101R1255		0.780	1
		32	860105	DS204 A-B32/0.03	2CSR254101R1325		0.780	1
		40	860204	DS204 A-B40/0.03	2CSR254101R1405		0.780	1
		50 ①	860303	DS204 A-B50/0.03	2CSR254101R1505		0.825	1
		63 ①	860402	DS204 A-B63/0.03	2CSR254101R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs DS200

DS200 series 6000 - A  type, C characteristic



DS202

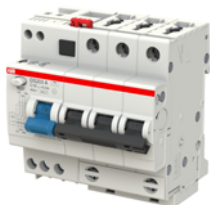
DS200 A type, C characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

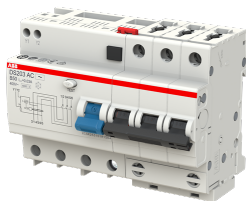
Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2

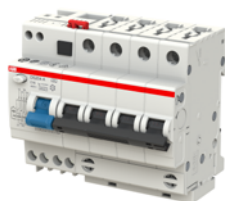
Icn = 6 kA



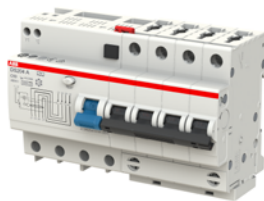
DS203 6A to 40A



DS203 50A and 63A



DS204 6A to 40A



DS204 50A and 63A

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	40	861201	DS202 A-C40/0.03	2CSR252101R1404		0.440	1
		50 ①	861300	DS202 A-C50/0.03	2CSR252101R1504		0.440	1
		63 ①	861409	DS202 A-C63/0.03	2CSR252101R1634		0.440	1

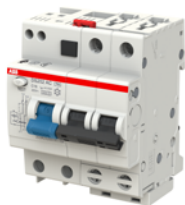
Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	861508	DS203 A-C6/0.03	2CSR253101R1064		0.610	1
		10	861607	DS203 A-C10/0.03	2CSR253101R1104		0.610	1
		13	861706	DS203 A-C13/0.03	2CSR253101R1134		0.610	1
		16	861805	DS203 A-C16/0.03	2CSR253101R1164		0.610	1
		20	861904	DS203 A-C20/0.03	2CSR253101R1204		0.610	1
		25	862000	DS203 A-C25/0.03	2CSR253101R1254		0.610	1
		32	862109	DS203 A-C32/0.03	2CSR253101R1324		0.610	1
		40	862208	DS203 A-C40/0.03	2CSR253101R1404		0.610	1
		50 ①	862307	DS203 A-C50/0.03	2CSR253101R1504		0.650	1
		63 ①	862406	DS203 A-C63/0.03	2CSR253101R1634		0.650	1

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	862505	DS204 A-C6/0.03	2CSR254101R1064		0.780	1
		10	862604	DS204 A-C10/0.03	2CSR254101R1104		0.780	1
		13	862703	DS204 A-C13/0.03	2CSR254101R1134		0.780	1
		16	862802	DS204 A-C16/0.03	2CSR254101R1164		0.780	1
		20	862901	DS204 A-C20/0.03	2CSR254101R1204		0.780	1
		25	863007	DS204 A-C25/0.03	2CSR254101R1254		0.780	1
		32	863106	DS204 A-C32/0.03	2CSR254101R1324		0.780	1
		40	863205	DS204 A-C40/0.03	2CSR254101R1404		0.780	1
		50 ①	863304	DS204 A-C50/0.03	2CSR254101R1504		0.825	1
		63 ①	863403	DS204 A-C63/0.03	2CSR254101R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs DS200

DS200 series 6000 - A  type, K characteristic



DS202

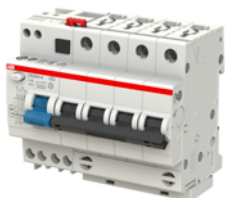
DS200 A type, K characteristic

Function: protection and control against overloads and short-circuit in systems where motors, transformers and auxiliary circuits are present. Advantages: no unwanted release in case of currents peak up to $10 \times I_n$, according to the series; thanks to the high sensibility bimetal, the K curve switches offer protection of the sensible elements from overcurrents; they also allow the best protection of cables and lines.

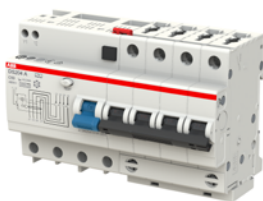
Application: commercial, industrial.

Standard: IEC/EN 60947-2

Icn = 6 kA



DS204 6A to 40A



DS204 50A and 63A

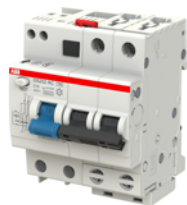
Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	930303	DS202 A-K6/0.03	2CSR252101R1067		0.475	1
		10	900702	DS202 A-K10/0.03	2CSR252101R1107		0.475	1
		13	930402	DS202 A-K13/0.03	2CSR252101R1137		0.475	1
		16	930501	DS202 A-K16/0.03	2CSR252101R1167		0.475	1
		20	930600	DS202 A-K20/0.03	2CSR252101R1207		0.475	1
		25	930709	DS202 A-K25/0.03	2CSR252101R1257		0.475	1
		32	930808	DS202 A-K32/0.03	2CSR252101R1327		0.475	1
		40	930907	DS202 A-K40/0.03	2CSR252101R1407		0.475	1
		50 ①	931003	DS202 A-K50/0.03	2CSR252101R1507		0.475	1
		63 ①	931102	DS202 A-K63/0.03	2CSR252101R1637		0.475	1

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			
4	30	6	931201	DS204 A-K6/0.03	2CSR254101R1067		0.775	1
		10	931300	DS204 A-K10/0.03	2CSR254101R1107		0.775	1
		13	931409	DS204 A-K13/0.03	2CSR254101R1137		0.775	1
		16	931508	DS204 A-K16/0.03	2CSR254101R1167		0.775	1
		20	931607	DS204 A-K20/0.03	2CSR254101R1207		0.775	1
		25	931706	DS204 A-K25/0.03	2CSR254101R1257		0.775	1
		32	931805	DS204 A-K32/0.03	2CSR254101R1327		0.775	1
		40	931904	DS204 A-K40/0.03	2CSR254101R1407		0.775	1
		50 ①	932000	DS204 A-K50/0.03	2CSR254101R1507		0.775	1
		63 ①	932109	DS204 A-K63/0.03	2CSR254101R1637		0.775	1

① provided with additional terminals for remote tripping.

RCBOs DS200

DS200 M series 10000 - AC  type, B characteristic



DS202

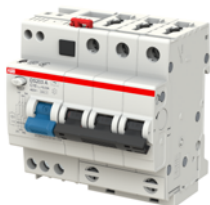
DS200 M AC type, B characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

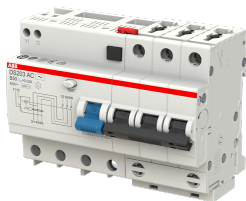
Application: commercial, industrial.

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

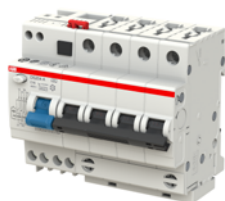
Icn = 10 kA



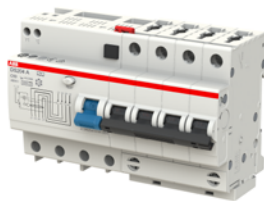
DS203 6A to 40A



DS203 50A and 63A



DS204 6A to 40A



DS204 50A and 63A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	932208	DS202 M AC-B6/0.03	2CSR272001R1065		0.440	1
		10	932307	DS202 M AC-B10/0.03	2CSR272001R1105		0.440	1
		13	932406	DS202 M AC-B13/0.03	2CSR272001R1135		0.440	1
		16	932505	DS202 M AC-B16/0.03	2CSR272001R1165		0.440	1
		20	932604	DS202 M AC-B20/0.03	2CSR272001R1205		0.440	1
		25	932703	DS202 M AC-B25/0.03	2CSR272001R1255		0.440	1
		32	932802	DS202 M AC-B32/0.03	2CSR272001R1325		0.440	1
		40	932901	DS202 M AC-B40/0.03	2CSR272001R1405		0.440	1
		50 ①	933007	DS202 M AC-B50/0.03	2CSR272001R1505		0.440	1
		63 ①	933106	DS202 M AC-B63/0.03	2CSR272001R1635		0.440	1

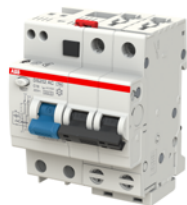
Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	933205	DS203 M AC-B6/0.03	2CSR273001R1065		0.610	1
		10	933304	DS203 M AC-B10/0.03	2CSR273001R1105		0.610	1
		13	933403	DS203 M AC-B13/0.03	2CSR273001R1135		0.610	1
		16	933502	DS203 M AC-B16/0.03	2CSR273001R1165		0.610	1
		20	933601	DS203 M AC-B20/0.03	2CSR273001R1205		0.610	1
		25	933700	DS203 M AC-B25/0.03	2CSR273001R1255		0.610	1
		32	933809	DS203 M AC-B32/0.03	2CSR273001R1325		0.610	1
		40	933908	DS203 M AC-B40/0.03	2CSR273001R1405		0.610	1
		50 ①	934004	DS203 M AC-B50/0.03	2CSR273001R1505		0.650	1
		63 ①	934103	DS203 M AC-B63/0.03	2CSR273001R1635		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	934202	DS204 M AC-B6/0.03	2CSR274001R1065		0.780	1
		10	934301	DS204 M AC-B10/0.03	2CSR274001R1105		0.780	1
		13	934400	DS204 M AC-B13/0.03	2CSR274001R1135		0.780	1
		16	934509	DS204 M AC-B16/0.03	2CSR274001R1165		0.780	1
		20	934608	DS204 M AC-B20/0.03	2CSR274001R1205		0.780	1
		25	934707	DS204 M AC-B25/0.03	2CSR274001R1255		0.780	1
		32	934806	DS204 M AC-B32/0.03	2CSR274001R1325		0.780	1
		40	934905	DS204 M AC-B40/0.03	2CSR274001R1405		0.780	1
		50 ①	935001	DS204 M AC-B50/0.03	2CSR274001R1505		0.825	1
		63 ①	935100	DS204 M AC-B63/0.03	2CSR274001R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs DS200

DS200 M series $\boxed{10000}$ - AC $\sim$ type, C characteristic



DS202

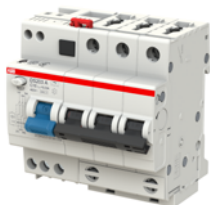
DS200 M AC type, C characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

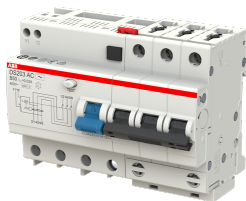
Application: commercial, industrial.

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

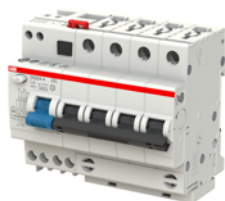
Icn = 10 kA



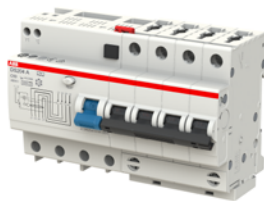
DS203 6A to 40A



DS203 50A and 63A



DS204 6A to 40A



DS204 50A and 63A

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	851509	DS202 M AC-C6/0.03	2CSR272001R1064		0.440	1
		10	851608	DS202 M AC-C10/0.03	2CSR272001R1104		0.440	1
		13	851707	DS202 M AC-C13/0.03	2CSR272001R1134		0.440	1
		16	851806	DS202 M AC-C16/0.03	2CSR272001R1164		0.440	1
		20	851905	DS202 M AC-C20/0.03	2CSR272001R1204		0.440	1
		25	852001	DS202 M AC-C25/0.03	2CSR272001R1254		0.440	1
		32	852100	DS202 M AC-C32/0.03	2CSR272001R1324		0.440	1
		40	852209	DS202 M AC-C40/0.03	2CSR272001R1404		0.440	1
		50 ①	852308	DS202 M AC-C50/0.03	2CSR272001R1504		0.440	1
		63 ①	852407	DS202 M AC-C63/0.03	2CSR272001R1634		0.440	1

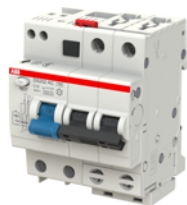
Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	852506	DS203 M AC-C6/0.03	2CSR273001R1064		0.610	1
		10	852605	DS203 M AC-C10/0.03	2CSR273001R1104		0.610	1
		13	852704	DS203 M AC-C13/0.03	2CSR273001R1134		0.610	1
		16	852803	DS203 M AC-C16/0.03	2CSR273001R1164		0.610	1
		20	852902	DS203 M AC-C20/0.03	2CSR273001R1204		0.610	1
		25	853008	DS203 M AC-C25/0.03	2CSR273001R1254		0.610	1
		32	853107	DS203 M AC-C32/0.03	2CSR273001R1324		0.610	1
		40	853206	DS203 M AC-C40/0.03	2CSR273001R1404		0.610	1
		50 ①	853305	DS203 M AC-C50/0.03	2CSR273001R1504		0.650	1
		63 ①	853404	DS203 M AC-C63/0.03	2CSR273001R1634		0.650	1

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	853503	DS204 M AC-C6/0.03	2CSR274001R1064		0.780	1
		10	853602	DS204 M AC-C10/0.03	2CSR274001R1104		0.780	1
		13	853701	DS204 M AC-C13/0.03	2CSR274001R1134		0.780	1
		16	853800	DS204 M AC-C16/0.03	2CSR274001R1164		0.780	1
		20	853909	DS204 M AC-C20/0.03	2CSR274001R1204		0.780	1
		25	854005	DS204 M AC-C25/0.03	2CSR274001R1254		0.780	1
		32	854104	DS204 M AC-C32/0.03	2CSR274001R1324		0.780	1
		40	854203	DS204 M AC-C40/0.03	2CSR274001R1404		0.780	1
		50 ①	854302	DS204 M AC-C50/0.03	2CSR274001R1504		0.825	1
		63 ①	854401	DS204 M AC-C63/0.03	2CSR274001R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs DS200

DS200 M series 10000 - A  type, B characteristic



DS202

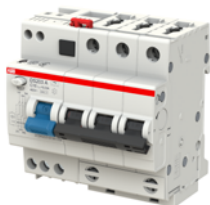
DS200 M A type, B characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

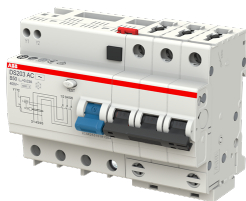
Application: commercial, industrial.

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

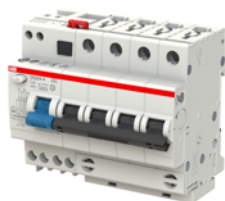
Icn = 10 kA



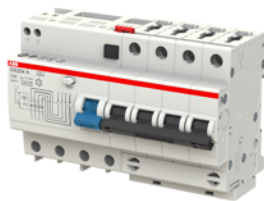
DS203 6A to 40A



DS203 50A and 63A



DS204 6A to 40A



DS204 50A and 63A

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	40	846208	DS202 M A-B40/0.03	2CSR272101R1405		0.440	1
		50 ①	846307	DS202 M A-B50/0.03	2CSR272101R1505		0.440	1
		63 ①	846406	DS202 M A-B63/0.03	2CSR272101R1635		0.440	1

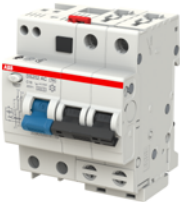
Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	846505	DS203 M A-B6/0.03	2CSR273101R1065		0.610	1
		10	846604	DS203 M A-B10/0.03	2CSR273101R1105		0.610	1
		13	846703	DS203 M A-B13/0.03	2CSR273101R1135		0.610	1
		16	846802	DS203 M A-B16/0.03	2CSR273101R1165		0.610	1
		20	846901	DS203 M A-B20/0.03	2CSR273101R1205		0.610	1
		25	847007	DS203 M A-B25/0.03	2CSR273101R1255		0.610	1
		32	847106	DS203 M A-B32/0.03	2CSR273101R1325		0.610	1
		40	847205	DS203 M A-B40/0.03	2CSR273101R1405		0.610	1
		50 ①	847304	DS203 M A-B50/0.03	2CSR273101R1505		0.650	1
		63 ①	847403	DS203 M A-B63/0.03	2CSR273101R1635		0.650	1

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	847502	DS204 M A-B6/0.03	2CSR274101R1065		0.780	1
		10	847601	DS204 M A-B10/0.03	2CSR274101R1105		0.780	1
		13	847700	DS204 M A-B13/0.03	2CSR274101R1135		0.780	1
		16	847809	DS204 M A-B16/0.03	2CSR274101R1165		0.780	1
		20	847908	DS204 M A-B20/0.03	2CSR274101R1205		0.780	1
		25	848004	DS204 M A-B25/0.03	2CSR274101R1255		0.780	1
		32	848103	DS204 M A-B32/0.03	2CSR274101R1325		0.780	1
		40	848202	DS204 M A-B40/0.03	2CSR274101R1405		0.780	1
		50 ①	848301	DS204 M A-B50/0.03	2CSR274101R1505		0.825	1
		63 ①	848400	DS204 M A-B63/0.03	2CSR274101R1635		0.825	1

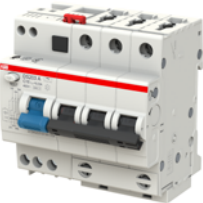
① provided with additional terminals for remote tripping.

RCBOs DS200

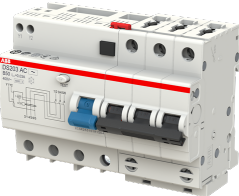
DS200 M series 10000 - A type, C characteristic



DS202



DS203 6A to 40A



DS203 50A and 63A

DS200 M A type, C characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.

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

Icn = 10 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	40	849209	DS202 M A-C40/0.03	2CSR272101R1404		0.440	1
		50 ①	849308	DS202 M A-C50/0.03	2CSR272101R1504		0.440	1
		63 ①	849407	DS202 M A-C63/0.03	2CSR272101R1634		0.440	1

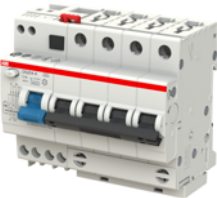
Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	849506	DS203 M A-C6/0.03	2CSR273101R1064		0.610	1
		10	849605	DS203 M A-C10/0.03	2CSR273101R1104		0.610	1
		13	849704	DS203 M A-C13/0.03	2CSR273101R1134		0.610	1
		16	849803	DS203 M A-C16/0.03	2CSR273101R1164		0.610	1
		20	849902	DS203 M A-C20/0.03	2CSR273101R1204		0.610	1
		25	850007	DS203 M A-C25/0.03	2CSR273101R1254		0.610	1
		32	850106	DS203 M A-C32/0.03	2CSR273101R1324		0.610	1
		40	850205	DS203 M A-C40/0.03	2CSR273101R1404		0.610	1
		50 ①	850304	DS203 M A-C50/0.03	2CSR273101R1504		0.650	1
		63 ①	850403	DS203 M A-C63/0.03	2CSR273101R1634		0.650	1

① provided with additional terminals for remote tripping.

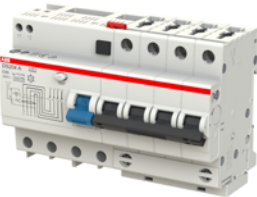


RCBOs DS200

DS200 M series 10000 - A  type, C characteristic



DS204 6A to 40A



DS204 50A and 63A

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	850502	DS204 M A-C6/0.03	2CSR274101R1064		0.780	1
		10	850601	DS204 M A-C10/0.03	2CSR274101R1104		0.780	1
		13	850700	DS204 M A-C13/0.03	2CSR274101R1134		0.780	1
		16	850809	DS204 M A-C16/0.03	2CSR274101R1164		0.780	1
		20	850908	DS204 M A-C20/0.03	2CSR274101R1204		0.780	1
		25	851004	DS204 M A-C25/0.03	2CSR274101R1254		0.780	1
		32	851103	DS204 M A-C32/0.03	2CSR274101R1324		0.780	1
		40	851202	DS204 M A-C40/0.03	2CSR274101R1404		0.780	1
		50 ①	851301	DS204 M A-C50/0.03	2CSR274101R1504		0.825	1
		63 ①	851400	DS204 M A-C63/0.03	2CSR274101R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs DS200

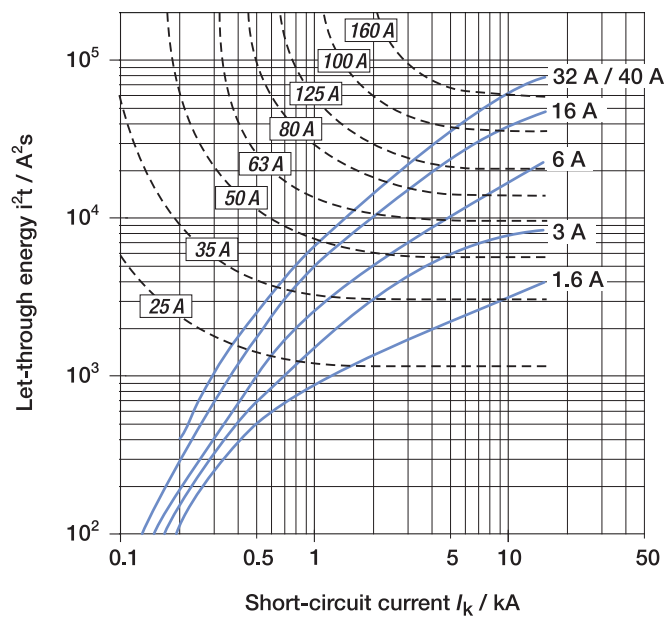
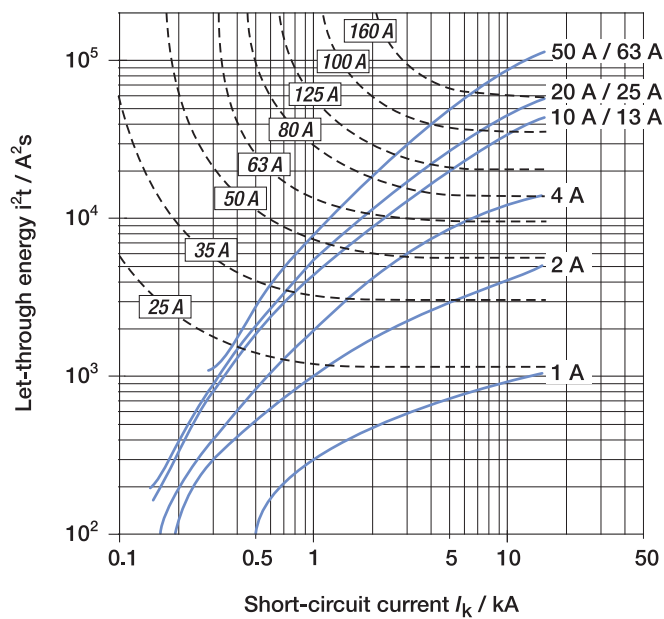
Technical features

I^2t diagrams - Specific let-through energy value I^2t

The I^2t curves give the values of the specific let-through energy expressed in A^2s (A=amps; s=seconds) in relation to the perspective short-circuit current (I_{rms}) in kA.

DS200 - DS 200M, characteristics B and C

230/400 V let-through energy



RCBOs DS200

Technical features

Acc. to	Tripping characteristic and rated current	Thermal release ②			Electromagnetic release ①		
		Current:		Tripping time	Currents:		Tripping time
		conventional non-tripping current	conventional tripping current		hold current surges	trip at least at	
IEC/EN 60898-1	B	6 to 40 A	$1.13 \cdot I_n$	$> 1 \text{ h}$	$3 \cdot I_n$		$> 0.1 \text{ s}$
			$1.45 \cdot I_n$	$< 1 \text{ h}$		$5 \cdot I_n$	$< 0.1 \text{ s}$
	C	2 to 40 A	$1.13 \cdot I_n$	$> 1 \text{ h}$	$5 \cdot I_n$		$> 0.1 \text{ s}$
			$1.45 \cdot I_n$	$< 1 \text{ h}$		$10 \cdot I_n$	$< 0.1 \text{ s}$
IEC/EN 60947-2	K	1 to 40 A	$1.05 \cdot I_n$	$> 1 \text{ h}$	$10 \cdot I_n$		$> 0.2 \text{ s}$
			$1.2 \cdot I_n$	$< 1 \text{ h} \text{ ③}$		$14 \cdot I_n$	$< 0.2 \text{ s}$
			$1.5 \cdot I_n$	$< 2 \text{ min. ③}$			
			$6.0 \cdot I_n$	$> 2 \text{ s (T1)}$			

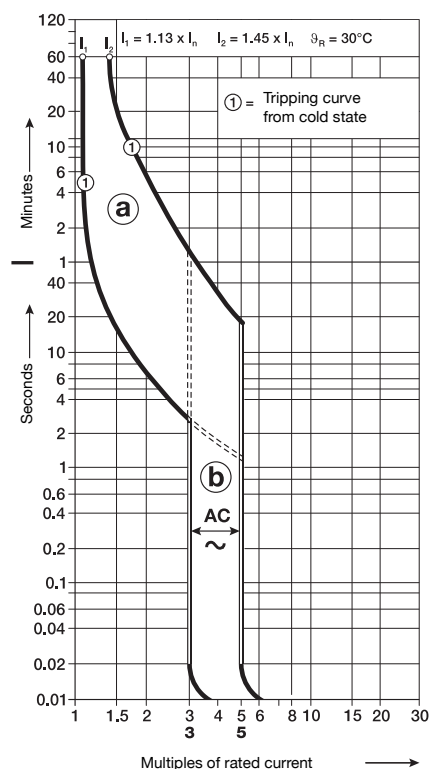
① The indicated electromagnetic tripping values apply to a frequency range of 16 2/3 ... 60 Hz. For different network frequencies or direct current the values change according to the multiplier in the table below.

② The thermal releases are calibrated to a nominal reference ambient temperature; for Z and K, the value is 20 °C, for B and C = 30 °C.

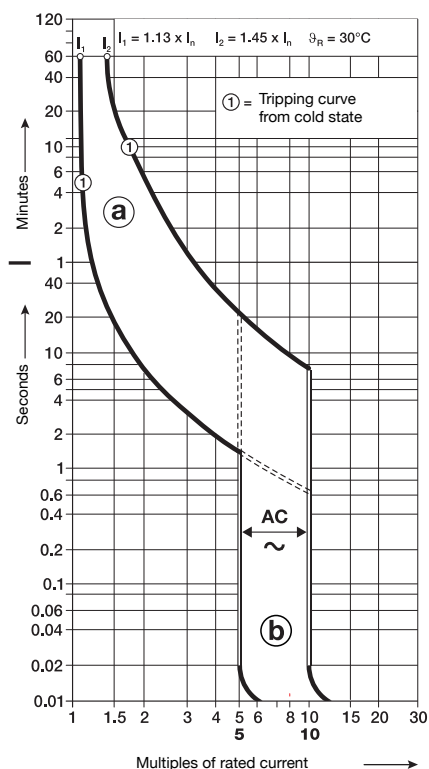
In the case of higher ambient temperatures, the current values fall by ca. 6 % for each 10 K temperature rise.

③ As from operating temperature (after $I_1 > 1 \text{ h}$ or, as applicable, 2 h).

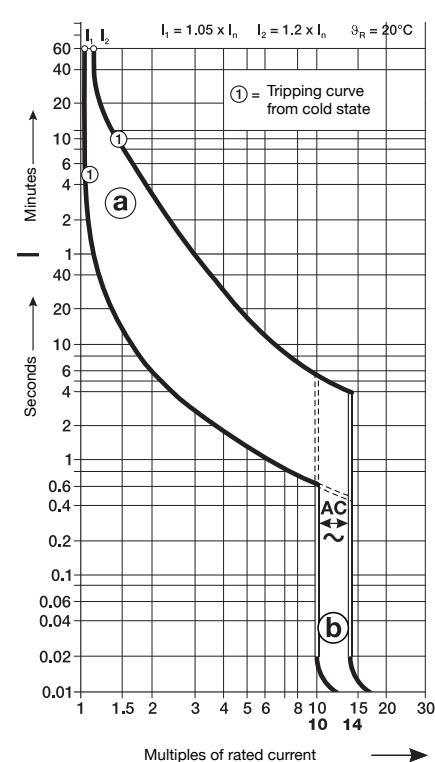
Characteristic B
IEC/EN 61009-1



Characteristic C
IEC/EN 61009-1



Characteristic K
IEC-EN60947-2



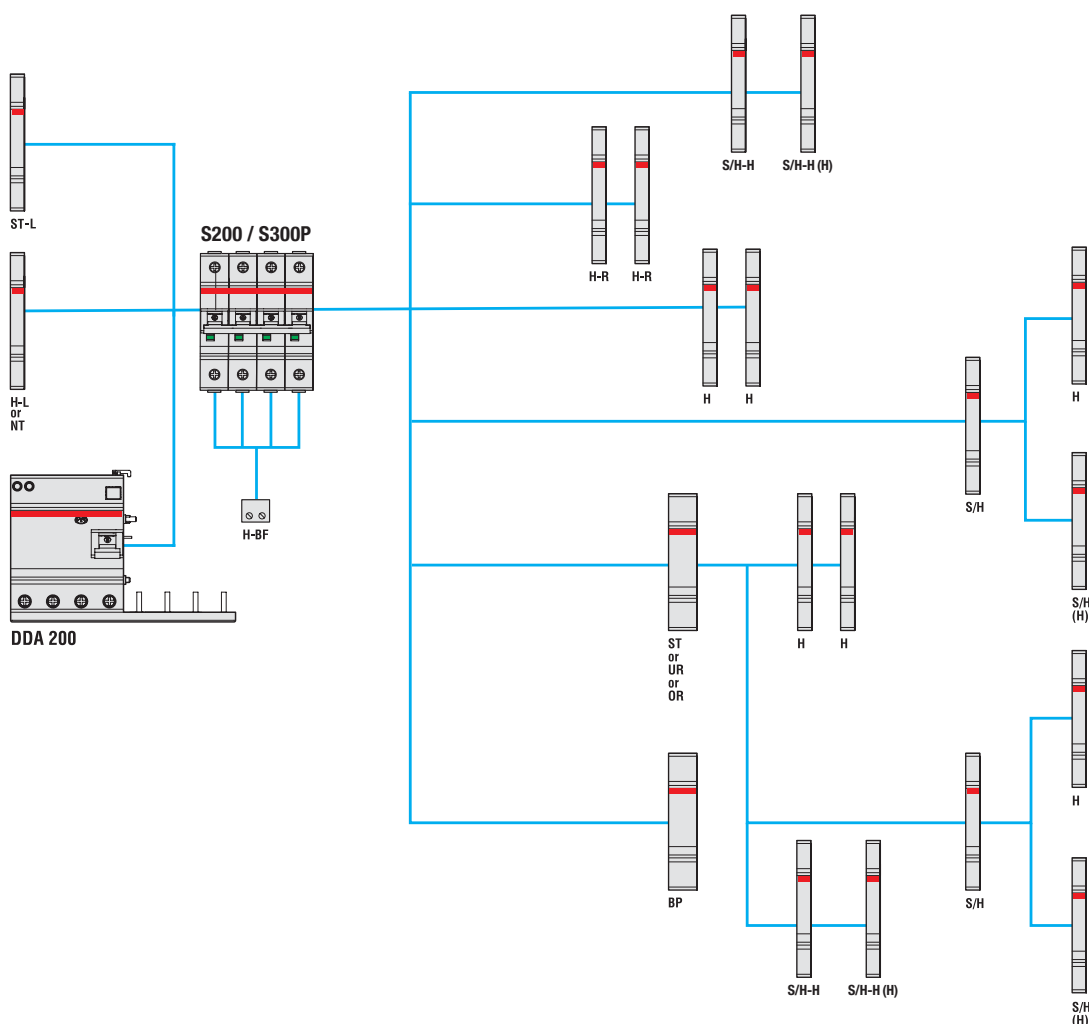
Ⓐ thermal trip

Ⓑ electromagnetic trip

RCBOs DS200

Accessories scheme

Combination of auxiliary elements with S200, S200M, S200P, S300P, DDA200 + S200 or DS200
(for S200 80-100A no combination with DDA)



H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6-...R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
S/H-H	Auxiliary contact-Signal contact/ Auxiliary contact 2CO	S3C-H-S/H6R
S/H-H (H)	Auxiliary contact-Signal contact/ Auxiliary contact 2CO (used as auxiliary contact)	S3C-H-S/H6R
ST	Shunt trip	S3C-A...
ST-L	Shunt trip to be mounted on the left	S3C-A...L
UR	Undervoltage release	S3C-UA
OR	Overvoltage release	S2C-OVP
H-L *	Auxiliary contact to be mounted on the left	S2C-H...L
H-BF */**	Auxiliary contact for MCBs bottom fitting (1 for each pole of MCB)	S2C-H01/S2C-H10
BP	Mechanical tripping device	S2C-BP
NT	Switched neutral	S2C-Nt
MOD***	Motor operating device	S3C-MOD...

In case of using rotary operating mechanism S2C-DH (only right side mountable) the auxiliary devices left side and bottom fitting auxiliary contact could be used.

* H-L and H-BF cannot be coupled with DS200.

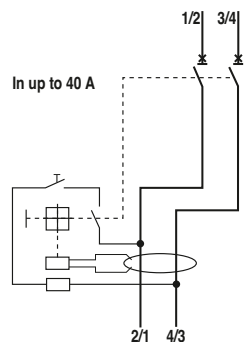
*/** H-BF cannot be coupled with MCB's neutral pole.

*** Please check the scheme can be found in Combination of S200/S300P/SD200 with motor operating device page

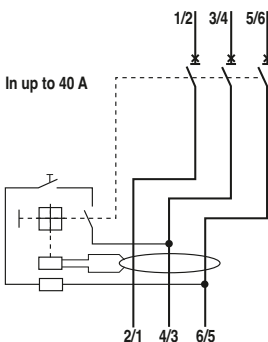
RCBOs DS200

Wiring diagrams

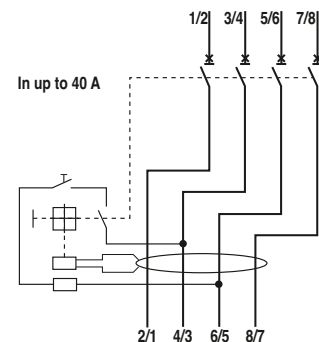
DS202



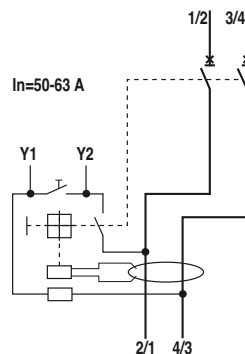
DS203



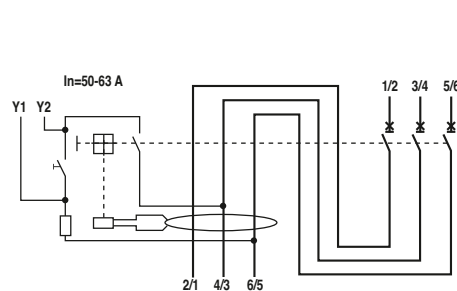
DS204



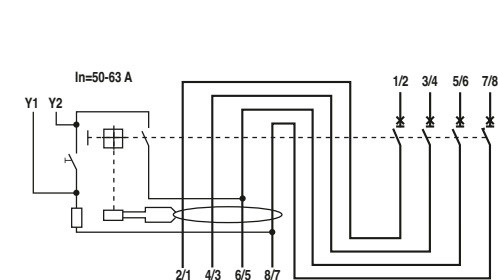
DS202



DS203



DS204

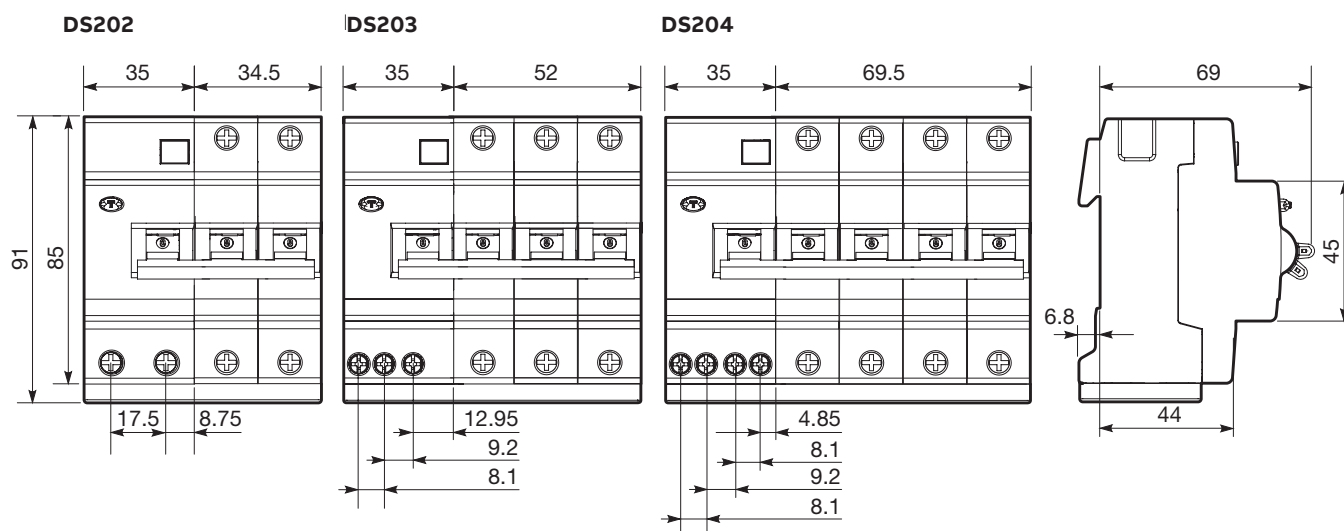


RCBOs DS200

Dimensions

I_n up to 40 A

dimensions in mm



$I_n = 50-63$ A

