

PRODUCT-DETAILS

S203S-B20

S203S-B20 Miniature Circuit Breaker - 3P - B - 20 A



General Information

Extended Product Type	S203S-B20
Product ID	2CDS253002R0205
EAN	4016779709576
Catalog Description	S203S-B20 Miniature Circuit Breaker - 3P - B - 20 A

Long Description	<p>System pro M compact S200S miniature circuit breakers offer the new screwless technology (on the top side terminal). The main features of the S200S range are:</p> <ul style="list-style-type: none"> • Comfortable, tool-free installation and release of the confection by hand. • Maximum freedom of wire selection. Usable with all types of wires with or without connector sleeves. Up to a cross section of 4 mm². • Rigid cables and cables with end sleeves directly pluggable <p>S200S are current limiting and have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C), configurations (1P,3P) and rated currents (up to 20A). The breaking capacity acc. IEC/EN 60898-1 is 6 kA. All MCBs of the product range S200S comply with IEC/EN 60898-1, allowing the use for residential applications. Bottom-fitting auxiliary contacts and PS busbars can be mounted on S200S enabling a space and time saving installation.</p>
------------------	--

Technical

Standards	IEC/EN 60898-1
Tripping Characteristic	B
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC

	Minimum 12 V AC
Rated Insulation Voltage (U _i)	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U _{imp})	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Input Voltage Type	AC
Rated Current (I _n)	20 A
Rated Short-Circuit Capacity	(AC) 6 kA (DC) 6 kA (400 V AC) 6 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	9.42 W at Rated Operating Conditions per Pole 3.14 W
Power Supply Connection	Bottom
Energy Limiting Class	3
Electrical Durability	20000 cycle
Electrical Endurance	20000 AC cycle
Mechanical Durability	20000 cycle
Mechanical Endurance	20000 cycle
Number of Poles	3
Number of Protected Poles	3
Overvoltage Category	III
Tightening Torque	2.8 N·m
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	I / O
Actuator Material	Insulation Group II, Black, Sealable
Housing Material	Insulation Group II, RAL 7035
Options Provided	Screwless
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting Position	Any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Busbar (Supply) 10 mm ² Conductor (Load) 1 ... 4 mm ² Conductor (Supply) 0.75 ... 35 mm ² Push-in / Flexible With Insulated Ferrule 2 x 1...2.5 mm ² Push-in / Flexible Without Insulated Ferrule 2 x 1...4 mm ² Push-in / Rigid 2 x 1...4 mm ²
Installation Size	acc. to DIN 43880 1
Wire Stripping Length	12 mm
Terminal Type	Screwless Terminals

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Ambient Air	30 °C

Temperature	
Degree of Protection	IP20 Enclosure with Cover IP40
Pollution Degree	2
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations acc. to IEC 60068-2-6	5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In
Resistance to Shock acc. to IEC 60068-2-27	25g / 2 shocks / 13 ms
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Environmental Information	2CDK400030D0201

Dimensions

Width in Number of Modular Spacings	3
Product Net Width	52.5 mm
Product Net Height	89 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.3 kg
Pole Net Weight	0.1 kg
Built-In Depth (t ₂)	69 mm

Container Information

Package Level 1 Units	carton 1 piece
Package Level 1 Width	92 mm
Package Level 1 Height	80 mm
Package Level 1 Depth / Length	58 mm
Package Level 1 Gross Weight	0.33 kg
Package Level 1 EAN	4016779757119
Package Level 2 Units	carton 36 piece
Package Level 2 Width	275 mm
Package Level 2 Height	210 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Gross Weight	12.28 kg
Package Level 2 EAN	4016779845052

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010
E-Number (Sweden)	2101169
Country of Origin	Germany (DE)

Certificates and Declarations (Document Number)

Certification Agency	EN IEC
Declaration of Conformity - CE	2CDK400593D2702
Environmental Information	2CDK400030D0201
Instructions and Manuals	No document needed
RoHS Information	2CDK400003K0203

Popular Downloads

Data Sheet, Technical Information	9AKK107991A8329
Installation Video	2CDC002131E0201
Instructions and Manuals	No document needed
Dimension Diagram	2CDC022222F0009

Classifications

ETIM 7	EC000042 - Miniature circuit breaker (MCB)
ETIM 8	EC000042 - Miniature circuit breaker (MCB)
EPLAN Catalog Tree	Electrical engineering / Protection devices / General
EPLAN Function Definition	Circuit breaker / Triple circuit breaker / Triple circuit breaker 1_2_3_4_5_6
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business
CN8	8536 20 10
UNSPSC	39121614
eClass	V11.0 : 27141901
Object Classification Code	F

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Signal / Auxiliary Contact	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact	S2C-H6R	1	piece
2CDS200936R0001	S2C-H11L Auxiliary Contact	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L Auxiliary Contact	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary Contact	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary Contact	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary Contact	S2C-H6-02R	1	piece
2CDS200909R0001	S2C-A1 Shunt Trip	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 Shunt Trip	S2C-A2	1	piece
2CSS200911R0001	S2C-UA 12 DC Undervoltage release	S2C-UA 12 DC	1	piece
2CSS200911R0002	S2C-UA 24 AC Undervoltage release	S2C-UA 24 AC	1	piece
2CSS200911R0003	S2C-UA 48 AC Undervoltage release	S2C-UA 48 AC	1	piece
2CSS200911R0004	S2C-UA 110 AC Undervoltage release	S2C-UA 110 AC	1	piece
2CSS200911R0005	S2C-UA 230 AC Undervoltage release	S2C-UA 230 AC	1	piece
2CSS200911R0006	S2C-UA 400 AC Undervoltage release	S2C-UA 400 AC	1	piece
2CSS200911R0007	S2C-UA 24 DC Undervoltage release	S2C-UA 24 DC	1	piece
2CSS200911R0008	S2C-UA 48 DC Undervoltage release	S2C-UA 48 DC	1	piece
2CSS200911R0009	S2C-UA 110 DC Undervoltage release	S2C-UA 110 DC	1	piece
2CSS200911R0010	S2C-UA 230 DC Undervoltage release	S2C-UA 230 DC	1	piece
2CSS201997R0013	S2C-CM1 Motor operating device	S2C-CM1	1	piece
2CSS203997R0013	S2C-CM2/3 Motor operating device	S2C-CM2/3	1	piece
2CSS204997R0013	S2C-CM4 Motor operating device	S2C-CM4	1	piece
GHS2001901R0003	S2C-DH Mechanical Accessories	S2C-DH	1	piece
2CSS200998R0001	S2C-BP Mechanical tripping device	S2C-BP	1	piece
2CSS200999R0001	S2C-EST Plug-in base	S2C-EST	1	piece
2CDS200918R0001	S2C-NT Hand Operated Neutral	S2C-NT	1	piece
2CCA880100R0001	CMS-100PS Sensor	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Sensor	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Sensor	CMS-102PS	1	piece

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs

