

PRODUCT-DETAILS

SZ203-B20

SZ203-B20 Miniature Circuit Breaker - 3P - B - 20 A



General Information

Extended Product Type	SZ203-B20
Product ID	2CDS253025R0205
EAN	4016779996440
Catalog Description	SZ203-B20 Miniature Circuit Breaker - 3P - B - 20 A
Long Description	System pro M compact SZ200 miniature circuit breakers are current limiting. They 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 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1 and IEC/EN 60947-2 allowing the use for residential, commercial and industrial applications.

Technical

Tripping Characteristic	B
Suitable for Isolation	Yes
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 Phase to Phase 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 (230 V AC) 6 kA (400 V AC) 6 kA
Rated Conditional Short-Circuit Current (I _{nc})	(230 V) 10 kA (400 V) 10 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs})	(230 V AC) 6 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	at Rated Operating Conditions per Pole 2.5 W
Power Supply Connection	Arbitrary
Contact Position Indication	ON / OFF
Energy Limiting Class	3
Electrical Endurance	20000 AC cycle
Mechanical Endurance	20000 cycle
Number of Poles	3
Number of Protected Poles	3
Overvoltage Category	III
Tightening Torque	2.8 N·m
Actuator Type	Toggle
Mounting Type	DIN-Rail
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	I / O
Actuator Material	Insulation Group II, Black, Sealable
Housing Material	Insulation Group I, RAL 7035
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 10 / 10 mm ² Flexible with Ferrule 0.75 ... 25 mm ² Flexible 0.75 ... 25 mm ² Rigid 0.75 ... 35 mm ² Stranded 0.75 ... 35 mm ²
Installation Size	acc. to DIN 43880 1
Wire Stripping Length	12.5 mm
Terminal Type	Screw Terminals

Environmental

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

SCIP	e6800e55-46b1-49a3-881b-0f66d0e903ad Germany (DE)
REACH Declaration	9AKK107492A1906

Dimensions

Width in Number of Modular Spacings	3
Product Net Width	52.5 mm
Product Net Height	85 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.345 kg
Pole Net Weight	0.125 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	0.395 kg
Package Level 1 EAN	4016779996693
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	13.36 kg
Package Level 2 EAN	4016779996891

Ordering

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

Certificates and Declarations (Document Number)

Declaration of Conformity - CE	9AKK107492A7641
I ² t Characteristic	9AKK107992A5102
Instructions and Manuals	2CDS207104P0001
REACH Declaration	9AKK107492A1906
RoHS Information	9AKK107492A7656

Popular Downloads

Data Sheet, Technical Information	No document needed
Instructions and Manuals	2CDS207104P0001
Dimension Diagram	2CDC022007F0010

1st Characteristic

9AKK107992A5102

Classifications

ETIM 7	EC000042 - Miniature circuit breaker (MCB)
ETIM 8	EC000042 - Miniature circuit breaker (MCB)
EPLAN Catalog Tree	Electrical engineering / Protection devices / General
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

Categories

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

