

PRODUCT-DETAILS

S203-D1.6

S203-D1.6 Miniature Circuit Breaker - 3P - D - 1.6 A



General Information

Extended Product Type	S203-D1.6
Product ID	2CDS253001R0971
EAN	4016779530835
Catalog Description	S203-D1.6 Miniature Circuit Breaker - 3P - D - 1.6 A
Long Description	System pro M compact S200 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,D,K,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space.

Circular Value

Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Sustainable Material Content	0 %
Offered with Extended Lifetime	Product Durability
Offered with Takeback Services	Take Back for Recycling

Eco Transparency

Environmental Product
Declaration - EPD

9AKK108467A7832

Technical

Standards	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
Tripping Characteristic	D
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 440 V AC
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC Minimum 12 V AC Minimum 12 V DC
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/DC
Rated Current (I _n)	1.6 A
Rated Short-Circuit Capacity	(AC) 6 kA (DC) 6 kA (400 V AC) 6 kA
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	(230 V AC) 20 kA (400 V AC) 10 kA (440 V AC) 10 kA
Rated Conditional Short-Circuit Current (I _{nc})	(230 V) 10 kA (400 V) 20 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs})	(230 V AC) 15 kA (400 V AC) 7.5 kA (440 V AC) 7.5 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	4.5 W at Rated Operating Conditions per Pole 1.5 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Electrical Endurance	20000 AC cycle
Mechanical Endurance	20000 cycle
Number of Poles	3
Number of Protected Poles	3
Overvoltage Category	III
Product Range	S200
Tightening Torque	2.8 N·m
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 II, 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	3
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
REACH Declaration	9AKK107492A1906

Technical UL/CSA

Maximum Operating Voltage UL/CSA	110 V DC 480Y/277 V AC
Interrupting Rating acc. to UL1077	(277 V AC) 6 kA (480Y / 277 V AC) 6 kA (240 V) 10 kA
Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG
Tightening Torque UL/CSA	18 in·lb

Dimensions

Width in Number of Modular Spacings	3
Product Net Width	52.5 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.375 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	0.4 kg
Package Level 1 EAN	4016779609708
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	4016779973731

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010
E-Number (Sweden)	2100660
Country of Origin	Germany (DE)

Certificates and Declarations (Document Number)

Certification Agency	EN IEC UL
Declaration of Conformity - CE	2CDK403001D0607
Declaration of Conformity - UKCA	9AKK108467A5053
Environmental Information	2CDK400030D0201
Environmental Product Declaration - EPD	9AKK108467A7832
I ² t Characteristic	9AKK107992A5103
Instructions and Manuals	2CDS207104P0002
REACH Declaration	9AKK107492A1906
RoHS Information	2CDK403001D0607

Popular Downloads

Data Sheet, Technical Information	9AKK107991A8329
Instructions and Manuals	2CDS207104P0002
Dimension Diagram	2CDC022007F0010
I ² t Characteristic	9AKK107992A5103
EPLAN Graphical Macro	9AKK106713A8196
EPLAN Macro	9AKK106713A8194

Classifications

ETIM 7	EC000042 - Miniature circuit breaker (MCB)
ETIM 8	EC000042 - Miniature circuit breaker (MCB)

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

