PRODUCT-DETAILS

S203M-D20

Miniature Circuit Breaker - S200M - 3P - D - 20 ampere



General Information

Extended Product Type	S203M-D20
Product ID	2CDS273001R0201
EAN	4016779601047
Catalog Description	Miniature Circuit Breaker - S200M - 3P - D - 20 ampere
Long Description	System pro M compact S200M 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 10 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200M comply with IEC/EN 60898-1 and IEC/EN 609 47-2, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200M to save 50% space.

Technical

Standards	IEC/EN 60898-1 IEC/EN 60947-2
Number of Poles	3
Number of Protected Poles	3
Tripping Characteristic	D
Rated Current (I_n)	20 A
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 440 V AC
Power Loss	6.9 W at Rated Operating Conditions per Pole 2.3 W

Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 440 V
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC Maximum 440 V AC Minimum 12 V AC Minimum 12 V DC
Rated Frequency (f)	50 Hz 60 Hz
Rated Short-Circuit Capacity (I_{cn})	(400 V AC) 10 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(230 V AC) 25 kA (440 V AC) 15 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(230 V AC) 7.5 kA
Overvoltage Category	III
Pollution Degree	3
Rated Impulse Withstand Voltage (U_{imp})	4 kV (6.2 kV @ sea level) (5.0 kV @ 2000 m)
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Housing Material	Insulation Group II, RAL 7035
Actuator Material	Insulation Group II, Black, Sealable
Actuator Marking	I / O
Contact Position Indication	Red ON / Green OFF
Degree of Protection	IP20
Remarks	IP40 in enclosure with cover
Electrical Endurance	20000 AC cycle
	20000 cycle
Terminal Type	Screw Terminals
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Connecting Capacity	Busbar 10 / 10 mm² Flexible with Ferrule 0.75 ... 25 mm² Flexible 0.75 ... 25 mm² Rigid 0.75 ... 35 mm² Stranded 0.75 ... 35 mm²
Tightening Torque	2.8 N·m
Recommended Screw Driver	Pozidriv 2
Mounting on DIN Rail	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Mounting Position	Any
Built-In Depth (t_2)	69 mm
Installation Size	acc. to DIN 43880 1
Power Supply Connection	Arbitrary

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Ambient Air Temperature	30 °C
Resistance to Shock acc. to IEC 60068-2-27	25g / 2 shocks / 13 ms
Resistance to Vibrations acc. to IEC 60068-2-6	5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
RoHS Status	Following EU Directive 2011/65/EU

Technical UL/CSA

Maximum Operating Voltage UL/CSA	125 V DC 480Y/277 V AC
Connecting Capacity UL/CSA	Busbar 14-8 AWG Conductor 14-4 AWG
Tightening Torque UL/CSA	18 in·lb
Interrupting Rating acc. to UL1077	(125 V DC) 10 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA

Dimensions

Product Net Width	52.5 mm
Product Net Depth / Length	69 mm
Product Net Height	88 mm
Product Net Weight	0.375 kg

Container Information

Package Level 1 Units	carton 1 piece
Package Level 1 Width	92 mm
Package Level 1 Depth / Length	58 mm
Package Level 1 Height	80 mm
Package Level 1 Gross Weight	0.4 kg
Package Level 1 EAN	4016779603935
Package Level 2 Units	carton 36 piece
Package Level 2 Width	275 mm
Package Level 2 Depth / Length	400 mm
Package Level 2 Height	210 mm
Package Level 2 Gross Weight	13.9 kg
Package Level 2 EAN	4016779978170

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010
E-Number (Sweden)	2100046

Certificates and Declarations (Document Number)

Declaration of Conformity - CE	2CDK403001D0607
Environmental Information	2CDK400030D0201
Instructions and Manuals	2CDS207104P0001
RoHS Information	2CDK400003K0203

Popular Downloads

Data Sheet, Technical Information	9AKK107046A0423
Instructions and Manuals	2CDS207104P0001

Classifications

Object Classification Code	F
ETIM 6	EC000042 - Miniature circuit breaker (MCB)
ETIM 7	EC000042 - Miniature circuit breaker (MCB)
ETIM 8	EC000042 - Miniature circuit breaker (MCB)
eClass	V11.0 : 27141901
UNSPSC	39121614

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

