



PRODUCT-DETAILS

SB203M-D50

Miniature Circuit Breaker - 3P - D - 50 A



General Information	
Extended Product Type	SB203M-D50
Product ID	1SYS273012R0501
Catalog Description	Miniature Circuit Breaker - 3P - D - 50 A
Long Description	System pro M compact SB200M 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), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 10 kA at 240/415 V AC) and rated currents (up to 63A). All MCBs of the product range SB200M comply with IS/IEC 60898 -1, allowing the use for residential, commercial and industrial applications.

Technical	
Standards	IS/IEC 60898-1
Tripping Characteristic	D
Rated Voltage (U _r)	415 V
Operational Voltage	Maximum 457 V AC Maximum 120 V DC
Rated Impulse Withstand Voltage (U _{imp})	4 kV

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Rated Current (I _n)	50 A
Rated Operational Current (I _e)	50 A
Rated Short-Circuit Capacity	10 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs})	7.5 kA
Frequency (f)	50 Hz
Rated Frequency (f)	50 Hz
Energy Limiting Class	3
Electrical Endurance	10000AC cycle
Mechanical Endurance	20000 cycle
Number of Protected Poles	3
Number of Poles	3
Overvoltage Category	III
Tightening Torque	2 N·m
Actuator Type	Toggle
Screw Terminal Type	Cage Terminal
Actuator Marking	I / O
Actuator Material	Insulation Group II, Black, Sealable
Housing Material	Insulation Group II, RAL 7035
Mounting Position	Any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Remarks	IP40 in enclosure with cover
Connecting Capacity	rigid: 25 mm ² ; flexible: 16 mm ²

Material Compliance

RoHS Information	1SYM100001D1015
RoHS Status	Following EU Directive 2011/65/EU
RoHS Date	43546
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20
Pollution Degree	2
Environmental Conditions	28 cycle 55°C @ 90-96% 25°C @ 95-100%
Resistance to Vibrations	20 Cycles with Load 0.8 In: 5g 5 ... 150 Hz 20 Cycles with Load 0.8 In: 6g 35 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g / 2 shock / 13 ms

Dimensions	
Product Net Width	52.5 mm
Product Net Height	85 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.35 kg
Built-In Depth (t ₂)	69 mm

Ordering	
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.375 kg

Certificates and Declarations	
Declaration of Conformity - CE	9AKK107492A2248

Installation	
Instructions and Manuals	No document needed

Popular Downloads	
Data Sheet, Technical Information	No document needed

Classifications	
ETIM 8	EC000042 - Miniature circuit breaker (MCB)
ETIM 9	EC000042 - Miniature circuit breaker (MCB)
WEEE Category	Product Not in WEEE Scope
eClass	V11.0 : 27141901
Object Classification Code	F

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

