

PRODUCT-DETAILS

## SH203-C6 SH203-C6 Miniature Circuit Breaker - 3P - C - 6 A



General Information	
Extended Product Type	SH203-C6
Product ID	2CDS213001R0064
EAN	4016779631266
Catalog Description	SH203-C6 Miniature Circuit Breaker - 3P - C - 6 A
Long Description	Compact Home SH200 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,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 40 A). All MCBs of the product range SH200 comply with IEC/EN 60898-1, allowing the use for residential applications.

Technical	
Standards	IEC/EN 60898-1
Tripping Characteristic	С
Rated Operational Voltage	acc. to IEC 60898-1 400 V
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC Minimum 12 V AC
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 440 V

Subject to change without notice

2024/07/08

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Rated impulse Withstand       4 kV         At 200 ms 5 kV         At 200 ms 5 kV         At 200 ms 5 kV         Input Voltage (Vpe)         Stolectric Test Voltage         Delectric Test Voltage         Rated Current (In,)         Rated Conditional Short-         (Circuit Current (In,)         (Actor Voltage (Vpe)         (Actor Vpe)		
at Sea Level 6.2 kV         Dielectric Test Voltage       50/60 Hz, 1 min: 2 kV         Input Voltage Type       AC         Rated Current (In)       (AC) 6 AC         Rated Short-Circuit       (AO) 7 6 AC         Circuit Current (Ime)       (400 VAC) 6 KA         Rated Frequency (f)       50 / 60 Hz         Power Loss       6 W         at Rated Frequency (f)       50 / 60 Hz         Power Loss       6 W         Power Supply Connection       Arbitrary         Indication       ON / OFF         Indication       0N / OFF         Indication       20000 AC cycle         Mechanical Endurance       20000 AC cycle         Mechanical Endurance       20000 AC cycle         Mechanical Endurance       20000 Cycle         Number of Poles       3         Number of Poles       3         Number of Poles       3         Actuator Marking       1 / 0         Actuat		
Input Voltage Type       AC         Rated Current (I <sub>n</sub> )       6.4         Rated Corrent (I <sub>n</sub> )       (AC) 6 kA         Capacity       (400 V AC) 6 is 6.         Capacity       (400 V) 5 kA         Rated Conditional Short-       (230 V) 6 kA         Circuit Current (I <sub>nc</sub> )       (60 V) 5 kA         Rated Frequency (f)       50 / 60 Hz         Power Loss       at Rated Operating Conditions per Pole 2 W         Power Supply Connection       Arbitrary         Contact Position       ON / OFF         Indication       0N / OFF         Indication       20000 AC cycle         Mechanical Endurance       20000 AC cycle         Number of Protected       3         Poles       3         Number of Poles       3         Number of Poles       3         Number of Poles       3         Actuator Type       Cage Terminal         Actuator Marking       1/ 0         Actuator Marking       1/ 0         Actuator Marking       Insulation Group II, Black, Sealable         Housing Material       Insulation Group II, RAL 7035         Mounting Position       Cange Terminal         Mounting Roliscin       Cange Correnting Capacity <th></th> <th></th>		
Rated Current (I, )       6 A         Rated Short-Circuit       (AC) 6 KA         Capacity       (400 V Ac) 6 KA         Rated Conditional Short-       (230 V) 6 KA         Circuit Current (In, 0)       (400 V) 6 (A         Rated Prequency (f)       50 / 60 Hz         Power Loss       6 W         Power Supply Connection       6 W         Contact Position       ON / OFF         Indication       0N / OFF         Indication       20000 AC cycle         Were Supply Connection       20000 AC cycle         Mumber of Potes       3         Poles       3         Poles       3         Vervolage Category       III         Tightening Torque       2 N m         Actuator Type       Cage Terminal         Screw Terminal Type       Cage Terminal         Mounting on DIN Rail       TH35-15 (35 x 7.5 mm Mounting Rail) ac. to IEC 60715         Mounting Position       ary         Recommended Screw       Poldriv         Prescrew       Conductor 25 / 25 mm²         Flexible with Ferrule 0.7516 mm²       Flexible with Ferrule 0.7516 mm²         Mounting Position       acx. to IEC 60715         Mounting Position       Poldriv 2	Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Rated Short-Circuit (AC) 6 kA Capacity (AC) 6 kA Capacity (400 VAC) 6 kA Rated Conditional Short- (230 V) 6 kA Rated Frequency (f) 50 / 60 Hz Power Loss at Rated Operating Conditions per Pole 2 W Power Supply Connection Arbitrary Contact Position ON / OFF Indication 2000 AC cycle Number of Portected 20000 AC cycle Number of Protected 320000 cycle Number of Protected 33 Poles 0000 cycle Number of Poles 33 Overvoltage Category III Tightening Torque 2 Arbitrary Actuator Type Cage Terminal Actuator Type Cage Terminal Actuator Marking 1 / O Actuator	Input Voltage Type	AC
Capacity (400 V AC) 6 kA Rated Conditional Shot- Circuit Current (In <sub>c</sub> ) (230 V) 6 kA Rated Frequency (f) 50 / 60 Hz Power Loss 50 / 60 Hz Power Supply Connection 50 / 60 Hz Power Supply Connection 6 W Power Supply Connection 0 N / OFF Indication 0 0 N / OFF Energy Limiting Class 3 Electrical Endurance 20000 AC cycle Number of Protected 3 Poles 0 20000 AC cycle 0 3 Poles 0 0 0 Protected 3 Poles 0 0 0 Protected 3 Poles 0 0 0 Protected 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rated Current (In)	6 A
Circuit Current (Inc)       (400 V) 6 kA         Rated Frequency (f)       50 / 60 Hz         Power Loss       6 W         at Rated Operating Conditions per Pole 2 W         Power Supply Connection       Arbitrary         Contact Position       ON / OFF         Indication       0N / OFF         Energy Limiting Class       3         Electrical Endurance       20000 AC cycle         Mechanical Endurance       20000 cycle         Number of Protected       3         Poles       3         Vervoltage Category       III         Tightening Torque       2 N·m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Material       Insulation Group II, Black, Sealable         Housing Material       Insulation Group II, Black, Sealable         Housing Material       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting Position       ary         Recessories Available       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Flexible with Ferrule 0.75 16 mm²         No       Connecting Capacity       Conductor 25 / 25 mm²         Connecting Capacity<		
Power Loss       6 W         at Rated Operating Conditions per Pole 2 W         Power Supply Connection       Arbitrary         Contact Position       ON / OFF         Indication       0 N / OFF         Energy Limiting Class       3         Electrical Endurance       20000 ACC cycle         Mechanical Endurance       20000 cycle         Number of Protected       3         Poles       3         Overvoltage Category       III         Tightening Torque       2 N m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Marking       1 / O         Mounting no DIN Rail       Th35-15 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Connecting Capacity         Accessories Available       Connecting Capacity         Connecting Capacity       Canditr Armating acc. to IEC 60715         Th35-15 (S5 x 7.5 mm Mounting Rail) acc. 5 16 mm <sup>2</sup> Rigid 0.75 25 mm <sup>2</sup>		
at Rated Operating Conditions per Pole 2 W         Power Supply Connection       Arbitrary         Contact Position       ON / OFF         Indication       ON / OFF         Energy Limiting Class       3         Electrical Endurance       20000 AC cycle         Mumber of Protected       20000 cycle         Number of Protected       3         Poles       3         Number of Poles       3         Overvoltage Category       III         Tightening Torque       2 N·m         Actuator Type       Cage Terminal         Actuator Marking       1 / O         Actuator Marking       Insulation Group II, Black, Sealable         Housing Material       Insulation Group II, Black, Sealable         Housing Notring on DIN Rail       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting on DIN Rail       TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Connector 25 / 25 mm²         Accessories Available       No         Connecting Capacity       Cinduct 75 16 mm²         Flexible 0.75 16 mm²       Flexible 0.75 16 mm²         Flexible 0.75 25 mm²	Rated Frequency (f)	50 / 60 Hz
Power Supply Connection       Arbitrary         Contact Position       ON / OFF         Indication       ON / OFF         Energy Limiting Class       3         Electrical Endurance       20000 AC cycle         Mumber of Protected       20000 cycle         Number of Poles       3         Poles       3         Overvoltage Category       III         Tightening Torque       2 N-m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Marking       1 / O         Actuator Marking       1 / O         Actuator Material       Insulation Group II, Black, Sealable         Housing Material       Insulation Group II, Black, Sealable         Housing on DIN Rail       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Conductor 25 / 25 mm <sup>2</sup> Accessories Available       No         Connecting Capacity       Flexible 0.75 16 mm <sup>2</sup> Flexible 0.75 26 mm <sup>2</sup> Thrmade 0.75 26 mm <sup>2</sup> Textander O.75 25 mm <sup>2</sup> Strandee 0.75 25 mm <sup>2</sup>	Power Loss	6 W
Contact Position       ON / OFF         Indication       Indication         Energy Limiting Class       3         Electrical Endurance       20000 AC cycle         Mumber of Protected       3         Poles       3         Number of Poles       3         Overvoltage Category       III         Tightening Torque       2 N·m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Marking       1 / 0         Actuator Marking       1 / 0         Mounting Naterial       Insulation Group II, RAL 7035         Mounting Position       any         Recommended Screw       Pozitri 2         Accessories Available       Non         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Flexible with Ferrule 0.75 25 mm²         Non       Conductor 25 / 25 mm²         Rigd 0.75 25 mm²       Stranded 0.75 25 mm²         No       Stranded 0.75 25 mm²         Stranded 0.75 25 mm²       acc. to DIN 438801		
Indication         Energy Limiting Class       3         Electrical Endurance       20000 AC cycle         Mechanical Endurance       20000 cycle         Number of Protected       3         Poles       3         Overvoltage Category       III         Tightening Torque       2 N·m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Marking       1 / 0         Actuator Marking       1 / 0         Mounting Position       Gray Enduration         Mounting Position       arty and another the form of any another the form of any and another the form of any any a		
Electrical Endurance 20000 AC cycle Mechanical Endurance 20000 cycle Number of Protected 3 Poles 3 Overvoltage Category III Tightening Torque 2N·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, 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 Mounting Position any Recommended Screw Pozidriv 2 Driver Accessories Available No Connecting Capacity Conductor 25 / 25 mm <sup>2</sup> Flexible with Ferrule 0.75 16 mm <sup>2</sup> Flexible with Ferrule 0.75 16 mm <sup>2</sup> Rigid 0.75 25 mm <sup>2</sup> Installation Size acc. to DIN 43880 1		ON / OFF
Mechanical Endurance       20000 cycle         Number of Protected       3         Poles       3         Number of Poles       3         Overvoltage Category       111         Tightening Torque       2 N·m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Marking       1/0         Actuator Material       Insulation Group II, Black, Sealable         Housing Material       Insulation Group II, RAL 7035         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       No         Accessories Available       No         Connecting Capacity       Conductor 25 / 5 16 mm²         Flexible 0.75 16 mm²       Flexible 0.75 16 mm²         Stranded 0.75 25 mm²       Stranded 0.75 25 mm²         Installation Size       acc. to DIN 438801	Energy Limiting Class	3
Number of Protected       3         Poles       3         Number of Poles       3         Overvoltage Category       III         Tightening Torque       2 N·m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Marking       1/O         Actuator Marking       1/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         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Conductor 25/25 mm²         Accessories Available       No         Connecting Capacity       Conductor 25/25 mm²         Flexible with Ferrule 0.75 16 mm²       Flexible with Ferrule 0.75 16 mm²         Rigid 0.75 25 mm²       Stranded 0.75 25 mm²         Installation Size       acc. to DIN 43880 1	Electrical Endurance	20000 AC cycle
Poles       3         Number of Poles       3         Overvoltage Category       III         Tightening Torque       2 N·m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Marking       1 / O         Actuator Marking       1 / 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         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Connecting Capacity         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Rigid 0.75 25 mm²         Stranded 0.75 25 mm²       Stranded 0.75 25 mm²         Installation Size       acc. to DIN 43880 1		
Overvoltage Category       III         Tightening Torque       2 N·m         Actuator Type       Toggle         Screw Terminal Type       Cage Terminal         Actuator Marking       1/ O         Actuator Marking       1/ 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         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Pozidriv 2         Accessories Available       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible 0.75 16 mm²       Flexible 0.75 16 mm²         Rigid 0.75 25 mm²       Stranded 0.75 25 mm²         Installation Size       acc. to DIN 43880 1		3
Tightening Torque2 N·mActuator TypeCage TerminalScrew Terminal TypeCage TerminalActuator Marking1/ OActuator Marking1/ OActuator MaterialInsulation Group II, Black, SealableHousing MaterialInsulation Group II, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715Mounting PositionanyRecommended ScrewPozidriv 2DriverConductor 25 / 25 mm²Accessories AvailableNoConnecting CapacityConductor 25 / 25 mm²Flexible with Ferrule 0.75 16 mm²Flexible 0.75 25 mm²Stranded 0.75 25 mm²Installation Sizeacc. to DIN 43880 1	Number of Poles	3
Actuator TypeToggleScrew Terminal TypeCage TerminalActuator MarkingI/OActuator MaterialInsulation Group II, Black, SealableHousing MaterialInsulation Group II, Black, SealableHousing on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715Mounting on DIN RailTH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715Mounting PositionanyRecommended ScrewPozidriv 2DriverNoAccessories AvailableNoConnecting CapacityConductor 25 / 25 mm²Flexible with Ferrule 0.75 16 mm² Rigid 0.75 25 mm²Installation Sizeacc. to DIN 43880 1	Overvoltage Category	III
Screw Terminal Type       Cage 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         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Rigid 0.75 25 mm²         Installation Size       acc. to DIN 43880 1	Tightening Torque	2 N·m
Actuator Marking       I/O         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         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Pozidriv 2         Accessories Available       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Rigid 0.75 25 mm²         Installation Size       acc. to DIN 43880 1	Actuator Type	Toggle
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         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Pozidriv 2         Accessories Available       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Rigid 0.75 25 mm²         Stranded 0.75 25 mm²       Installation Size	Screw Terminal Type	Cage Terminal
Housing Material       Insulation Group II, RAL 7035         Mounting on DIN Rail       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       Pozidriv 2         Accessories Available       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Flexible 0.75 16 mm²         Rigid 0.75 25 mm²       Stranded 0.75 25 mm²         Installation Size       acc. to DIN 43880 1	Actuator Marking	1/0
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       Pozidriv 2         Driver       No         Accessories Available       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Flexible with Ferrule 0.75 16 mm²         Rigid 0.75 25 mm²       Stranded 0.75 25 mm²         Installation Size       acc. to DIN 43880 1	Actuator Material	Insulation Group II, Black, Sealable
TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715         Mounting Position       any         Recommended Screw       Pozidriv 2         Driver       No         Accessories Available       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Flexible with Ferrule 0.75 16 mm²         Rigid 0.75 25 mm²       Stranded 0.75 25 mm²         Installation Size       acc. to DIN 43880 1	Housing Material	Insulation Group II, RAL 7035
Recommended Screw     Pozidriv 2       Driver     Accessories Available       Accessories Available     No       Connecting Capacity     Conductor 25 / 25 mm²       Flexible with Ferrule 0.75 16 mm²     Flexible with Ferrule 0.75 16 mm²       Flexible 0.75 16 mm²     Rigid 0.75 25 mm²       Stranded 0.75 25 mm²     Stranded 0.75 25 mm²       Installation Size     acc. to DIN 43880 1	Mounting on DIN Rail	
Driver       No         Accessories Available       No         Connecting Capacity       Conductor 25 / 25 mm²         Flexible with Ferrule 0.75 16 mm²       Flexible 0.75 16 mm²         Flexible 0.75 25 mm²       Rigid 0.75 25 mm²         Stranded 0.75 25 mm²       acc. to DIN 43880 1	Mounting Position	any
Connecting Capacity Conductor 25 / 25 mm <sup>2</sup> Flexible with Ferrule 0.75 16 mm <sup>2</sup> Flexible 0.75 16 mm <sup>2</sup> Rigid 0.75 25 mm <sup>2</sup> Stranded 0.75 25 mm <sup>2</sup> Installation Size acc. to DIN 43880 1		Pozidriv 2
Flexible with Ferrule 0.75 16 mm²           Flexible 0.75 16 mm²           Flexible 0.75 16 mm²           Rigid 0.75 25 mm²           Stranded 0.75 25 mm²           Installation Size	Accessories Available	No
Installation Size acc. to DIN 43880 1	Connecting Capacity	Flexible with Ferrule 0.75 16 mm² Flexible 0.75 16 mm² Rigid 0.75 25 mm²
Terminal Type Screw Terminals	Installation Size	
	Terminal Type	Screw Terminals

Material Compliance	
RoHS Information	2CDK400030D0201
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	0335
REACH Declaration	9AKK108468A9644
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20231212
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 Enclosure with Cover IP40
Pollution Degree	2
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations	20 Cycles with Load 0.8 In: 5g 5 150 5 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms
Environmental Information	2CDK400030D0201

Dimensions	
Width in Number of	:
Modular Spacings Product Net Width	52.5 mn
Product Net Height	85 mn
Product Net Depth /	69 mm
Length	
Product Net Weight	0.375 kg
Pole Net Weight	0.125 kg
Built-In Depth (t <sub>2</sub> )	69 mn
Ordering	
Package Level 1 Units	carton 1 piece
Package Level 1 Gross	0.39 kg
Weight	
E-Number (Finland)	3210966
Certificates and Declarations	
Certification Agency	EN
Declaration of Conformity - CE	2CDK400607D2703
Installation	
Instructions and Manuals	2CDS207105P000
Popular Downloads	
Data Sheet, Technical Information	2CSC400030D0202
Classifications	
ETIM 8	EC000042 - Miniature circuit breaker (MCB
ETIM 9	EC000042 - Miniature circuit breaker (MCB
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm
WEEE B2C / B2B	Business To Busines
CN8	8536 20 10
UNSPSC	3912160
eClass	V11.0 : 2714190

IDEA Granular Category

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4897 >> Miniature circuit breakers

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## **Categories**

 $\label{eq:low-constraint} \text{Low Voltage Products and Systems} \rightarrow \text{Modular DIN Rail Products} \rightarrow \text{Miniature Circuit Breakers MCBs} \rightarrow \text{Miniature Circuit Breakers MCBs}$ 









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