

PRODUCT-DETAILS

SH203L-C20NA

SH203L-C20NA Miniature Circuit Breaker - 3+NP - C - 20 A



General Information

Extended Product Type	SH203L-C20NA
Product ID	2CDS243103R0204
EAN	4016779633703
Catalog Description	SH203L-C20NA Miniature Circuit Breaker - 3+NP - C - 20 A
Long Description	Compact Home SH200L 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 4,5 kA at 230/400 V AC) and rated currents (up to 40 A). All MCBs of the product range SH200L comply with IEC/EN 60898-1, allowing the use for residential applications.

Technical

Standards	IEC/EN 60898-1
Tripping Characteristic	C
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
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) 4.5 kA (400 V AC) 4.5 kA
Rated Conditional Short-Circuit Current (I _{NC})	(230 V) 5 kA (400 V) 5 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	10 W 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+N
Number of Protected Poles	3
Overvoltage Category	III
Position of Neutral Terminals	Right
Product Range	SH200L
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 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	No
Connecting Capacity	Conductor 25 / 25 mm ² Flexible with Ferrule 0.75 ... 16 mm ² Flexible 0.75 ... 16 mm ² Rigid 0.75 ... 25 mm ² Stranded 0.75 ... 25 mm ²
Installation Size	acc. to DIN 43880 1
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
Environmental Information	2CDK400030D0201

Dimensions

Width in Number of Modular Spacings	4
Product Net Width	52.5 mm
Product Net Height	85 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.375 kg
Pole Net Weight	0.115 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	4016779633703
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	14.8 kg
Package Level 2 EAN	4016779988452

Ordering

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

Certificates and Declarations (Document Number)

Certification Agency	EN IEC
Declaration of Conformity - CE	9AKK107046A5460
Environmental Information	2CDK400030D0201
Instructions and Manuals	No document needed
RoHS Information	2CDK400030D0201

Popular Downloads

Data Sheet, Technical Information	2CSC400030D0202
Instructions and Manuals	No document needed

Classifications		
ETIM 7	EC000042 - Miniature circuit breaker (MCB)	
ETIM 8	EC000042 - Miniature circuit breaker (MCB)	
EPLAN Catalog Tree	Electrical engineering / Protection devices / General	
EPLAN Function Definition	NO contact / NO contact, 2 connection points / NO contact, leading 7N_8N Circuit breaker / Triple circuit breaker / Triple circuit breaker 1_2_3_4_5_6	
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	
Object Classification Code	F	

Categories

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

