PRODUCT-DETAILS

S401M-C20NP

Miniature Circuit Breaker



General Information

Extended Product Type	S401M-C20NP
Product ID	2CCS571103R8204
EAN	7612270103461
Catalog Description	Miniature Circuit Breaker
Long Description	SMISSLINE TP S400M are a current limiting miniature circuit breakers. 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), configurations (1P,1P+N,2P,3P,3P+N), breaking capacities (up to 10 kA at 240/415 V AC) and rated currents (up to 63A). MCBs of the product range S400M are comply with IEC/EN 60898-1 for B,C and D characteristic and IEC/EN 60947-2 for C and K characteristic. The pluggable solution is only for the SMISSLINE TP System, allowing the use for commercial, industrial, and critical power applications.

ABB EcoSolutions

ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 58.6323356825684 %
Circular Design Principles Ecodesign	9AKK108469A6507
Group Waste to Landfill	No non-hazardous waste is sent to a landfill

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Target	
Sustainable Material Content in Packaging	Recycled Cardboard - 18.1 % Recycled Cardboard - 67.7 % Chemically Recycled Polymer - 0.0 %
Offered with Extended Lifetime	Product Durability
End of Life Instructions	9AKK108469A6908
Environmental Product Declaration - EPD	9AKK108469A5735

Technical

Standards	IEC/EN 60898-1 IEC/EN 60947-2
Tripping Characteristic	C
Rated Operational Voltage	acc. to IEC 60898-1 240 V
Operational Voltage	Maximum (Incl. Tolerance) 254 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
Input Voltage Type	AC
Rated Current (I_n)	20 A
Rated Operational Current (I_e)	20 A
Rated Short-Circuit Capacity	(230 V) 10 kA (400 V) 10 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(230 V) 15 kA (400 V) 15 kA
Rated Short-Circuit Making Capacity (I_{cm})	(240 V AC) 30 kA (254 V AC) 9 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(240 V AC) 7.5 kA (254 V AC) 3 kA
Rated Service Short-Circuit Breaking Capacity, in % of Icu (I_{cs})	50 %
Frequency (f)	50 ... 60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	4 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 cycle
Mechanical Endurance	10000 cycle
Number of Protected Poles	2
Number of Poles	2
Overvoltage Category	III
Tightening Torque	2.8 N·m
Release Type	C
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	I / O
Mounting Position	Any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Flexible 0.75 … 25 mm² Rigid 0.75 … 35 mm²

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Terminal Type	Screw Terminals

Material Compliance

RoHS Information	9AKK107991A9634
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20170426
REACH Declaration	9AKK108467A9561
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20230417
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental

Ambient Air Temperature	Operation -25 … 60 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20
Pollution Degree	3
Resistance to Vibrations	1 mm 2 … 13.2 Hz
Environmental Information	9AKK108467A9561

Dimensions

Width in Number of Modular Spacings	2
Product Net Width	36 mm
Product Net Height	91 mm
Product Net Depth / Length	82 mm
Product Net Weight	221 g
Built-In Depth (t_2)	82 mm
Dimension Diagram	9AKK107492A6192

Ordering

Package Level 1 Units	carton 5 piece
Package Level 1 Gross Weight	1169 g
E-Number (Norway)	1623462
E-Number (Switzerland)	809120817

Certificates and Declarations

Declaration of Conformity - CE	9AKK107991A9634

Installation

Instructions and Manuals	2CCC451019M0109

Popular Downloads

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Data Sheet, Technical Information 9AKK107492A6192

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 Business
CN8	85362020
eClass	V11.0 : 27141901
Object Classification Code	FC

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CCS500900R0081	HK40011-L	Auxiliary swtich	1	piece
2CCF201112R0001	HK40020-L	Auxiliary swtich	1	piece
2CCF201114R0001	HK40002-L	Auxiliary swtich	1	piece
2CCS500900R0101	SK40011-L	Signal contact	1	piece
2CCF201162R0001	SK40020-L	Signal contact	1	piece
2CCF201164R0001	SK40002-L	Signal contact	1	piece
2CCS500900R0141	SK40010-LSA	Signal contact	1	piece
2CCF201212R0001	HK40010-LSA	Auxiliary swtich	1	piece
2CCS500900R0161	ZLS931	Spare parts	1	piece
2CCA880212R0001	CMS-122PS	Sensor	1	piece
2CCA880102R0001	CMS-102PS	Sensor	1	piece

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Plug-in Distribution Systems → Plug-in Distribution Systems → Miniature Circuit Breakers MCBs





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