



 PRODUCT-DETAILS

S401M-K4

Miniature Circuit Breaker



General Information

Extended Product Type	S401M-K4
Product ID	2CC5571001R0337
EAN	7612270101658
Catalog Description	Miniature Circuit Breaker

Long Description	<p>SMISLINE 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.</p> <p>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 SMISLINE TP System, allowing the use for commercial, industrial, and critical power applications.</p>
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ABB EcoSolutions

ABB EcoSolutions	Yes
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Circular Value

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

Eco Transparency

Environmental Product Declaration - EPD	9AKK108469A5735
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Technical

Standards	IEC/EN 60947-2
Tripping Characteristic	K
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)	4 A
Rated Operational Current (I _e)	4 A
Rated Short-Circuit Capacity	(230 V) 10 kA (400 V) 10 kA
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	(230 V) 25 kA (400 V) 25 kA
Rated Short-Circuit Making Capacity (I _{cm})	(240 V AC) 52.5 kA (254 V AC) 30 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs})	(240 V AC) 15 kA (254 V AC) 7.5 kA
Rated Service Short-Circuit Breaking Capacity, in % of I _{cu} (I _{cs})	50 %
Frequency (f)	50 ... 60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	1.4 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	1
Number of Poles	1
Overvoltage Category	III
Tightening Torque	2.8 N·m
Release Type	K
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 mm ² Rigid 0.75 ... 35 mm ²
Terminal Type	Screw Terminals

Material Compliance

RoHS Information	9AKK107991A9634
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment
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	40 °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	1
Product Net Width	18 mm
Product Net Height	91 mm
Product Net Depth / Length	75 mm
Product Net Weight	110 g
Built-In Depth (t ₂)	75 mm
Dimension Diagram	9AKK107492A6192

Ordering

Package Level 1 Units	carton 10 piece
Package Level 1 Gross Weight	1165 g
E-Number (Norway)	1623249
E-Number (Switzerland)	809215807

Certificates and Declarations

Declaration of Conformity - CE	9AKK107991A9634
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Installation

Instructions and Manuals	2CCC451019M0109
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Popular Downloads

Data Sheet, Technical Information	9AKK107492A6192
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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	Auxiliary swtich	HK40011-L	1	piece
2CCS500900R0214	Auxiliary swtich	HK40011-R	1	piece
2CCF201112R0001	Auxiliary swtich	HK40020-L	1	piece
2CCF201114R0001	Auxiliary swtich	HK40002-L	1	piece
2CCF201113R0001	Auxiliary swtich	HK40020-R	1	piece
2CCF201115R0001	Auxiliary swtich	HK40002-R	1	piece
2CCS500900R0101	Signal contact	SK40011-L	1	piece
2CCS500900R0215	Signal contact	SK40011-R	1	piece
2CCF201162R0001	Signal contact	SK40020-L	1	piece
2CCF201164R0001	Signal contact	SK40002-L	1	piece
2CCF201163R0001	Signal contact	SK40020-R	1	piece
2CCF201165R0001	Signal contact	SK40002-R	1	piece
2CCS500900R0141	Signal contact	SK40010-LSA	1	piece
2CCF201212R0001	Auxiliary swtich	HK40010-LSA	1	piece
2CCS500900R0216	Signal contact	SK40010-RSA	1	piece
2CCF201213R0001	Auxiliary swtich	HK40010-RSA	1	piece
2CCS500900R0161	Spare parts	ZLS931	1	piece
2CCS500900R0021	Neutral disconnect terminal block	NT40163	1	piece
2CCS500900R0011	Neutral disconnect terminal block	NT40263	1	piece
2CDS200909R0001	Shunt Trip	S2C-A1	1	piece
2CDS200909R0002	Shunt Trip	S2C-A2	1	piece
2CCA880212R0001	Sensor	CMS-122PS	1	piece
2CCA880102R0001	Sensor	CMS-102PS	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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