



PRODUCT-DETAILS

S402M-K1.6

Miniature Circuit Breaker



General Information	
Extended Product Type	S402M-K1.6
Product ID	2CCS572001R0257
EAN	7612270102396
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	Design for Closing Resource Loops - Standard EN45555 - 58.6323356825684
Recyclability Rate	%
Circular Design Principles Ecodesign	9AKK108469A6507
Group Waste to Landfill	No non-hazardous waste is sent to a landfill

Target

Sustainable Material	Recycled Cardboard - 18.1 %
Content in Packaging	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 60947-2
Tripping Characteristic	K
Rated Operational Voltage	acc. to IEC 60898-1 240 V
Operational Voltage	Maximum (Incl. Tolerance) 440 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)	1.6 A
Rated Operational Current (I_e)	1.6 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})	(440 V AC) 30 kA (415 V AC) 52.2 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(240 V AC) 15 kA (415 V AC) 15 kA (440 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	3.2 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	2P
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		2
Product Net Width		36 mm
Product Net Height		91 mm
Product Net Depth / Length		75 mm
Product Net Weight		221 g
Built-In Depth (t ₂)		75 mm
Dimension Diagram		9AKK107492A6192

Ordering		
Package Level 1 Units		carton 5 piece
Package Level 1 Gross Weight		1170 g
E-Number (Norway)		1623337
E-Number (Switzerland)		809241807

Certificates and Declarations		
Declaration of Conformity - CE		9AKK107991A9634

Installation		
Instructions and Manuals		2CCC451019M0109

Popular Downloads		
Data Sheet, Technical		9AKK107492A6192

Information

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

Categories

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

