

PRODUCT-DETAILS

S402M-K20

S402M-K20 Miniature Circuit Breaker



General Information

Extended Product Type	S402M-K20
Product ID	2CCS572001R0487
EAN	7612270102488
Catalog Description	S402M-K20 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.
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Technical

Standards	IEC/EN 60947-2
Tripping Characteristic	K
Rated Voltage (U_r)	240 / 415 V
Rated Operational Voltage	acc. to IEC 60898-1 240/415 V
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand	4 kV

Voltage (U_{imp})

Input Voltage Type	AC
Rated Current (I_n)	20 A
Rated Operational Current (I_e)	20 A
Rated Short-Circuit Capacity (I_{cn})	(400 V) 10 kA (230 V) 10 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(240 / 415 V AC) 15 kA (230 V) 50 kA (400 V) 50 kA
Rated Short-Circuit Making Capacity (I_{cm})	(415 V AC) 30 kA (440 V AC) 9 kA
Rated Conditional Short-Circuit Current (I_{nc})	(230 V) 50 kA (400 V) 50 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(400 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	4 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 cycle 10000 cycle
Number of Poles	2
Number of Protected Poles	2
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 with Ferrule 0.75 ... 25 mm ² Flexible 0.75 ... 25 mm ² Rigid 0.75 ... 35 mm ² Stranded 0.75 ... 35 mm ²
Terminal Type	Screw Terminals

Environmental

Ambient Temperature	-25...55 °C
Ambient Air Temperature	Operation -25 ... +60 °C Storage -40 ... +70 °C

Reference Ambient Air Temperature	40 °C
Degree of Protection	IP20
Pollution Degree	3
Resistance to Vibrations acc. to IEC 60068-2-6	2...13.2 Hz/1 mm 13.2...100Hz/0.7 g, 5 cycles 5...150 ... 5 Hz/1 g, 4 waves
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Environmental Information	2CCY451206D0201

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	235 g
Product Net Length	82 mm
Size	2 modules
Built-In Depth (t ₂)	75 mm

Container Information

Package Level 1 Units	carton 5 piece
Package Level 1 Width	185 mm
Package Level 1 Height	89 mm
Package Level 1 Depth / Length	101 mm
Package Level 1 Gross Weight	281 g
Package Level 1 EAN	7612270102488

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362020
E-Number (Switzerland)	809250807
Country of Origin	Switzerland (CH)

Certificates and Declarations (Document Number)

Declaration of Conformity - CE	9AKK107991A9634
Environmental Information	2CCY451206D0201
Instructions and Manuals	2CCC451019M0109
RoHS Information	2CCC413008D0206_RoHS

Popular Downloads	
Data Sheet, Technical Information	9AKK107492A6192
Instructions and Manuals	2CCC451019M0109
Dimension Diagram	9AKK107492A6192

Classifications	
ETIM 7	EC000042 - Miniature circuit breaker (MCB)
ETIM 8	EC000042 - Miniature circuit breaker (MCB)
EPLAN Catalog Tree	Electrical engineering / Protection devices / General
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	
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Identifier	Description	Type	Quantity	Unit Of Measure
2CCS500900R0081	HK40011-L	HK40011-L Auxiliary switch	1	piece
2CCS500900R0214	HK40011-R	HK40011-R Auxiliary switch	1	piece
2CCF201112R0001	HK40020-L	HK40020-L Auxiliary switch	1	piece
2CCF201114R0001	HK40002-L	HK40002-L Auxiliary switch	1	piece
2CCF201113R0001	HK40020-R	HK40020-R Auxiliary switch	1	piece
2CCF201115R0001	HK40002-R	HK40002-R Auxiliary switch	1	piece
2CCS500900R0101	SK40011-L	SK40011-L Signal contact	1	piece
2CCS500900R0215	SK40011-R	SK40011-R Signal contact	1	piece
2CCF201162R0001	SK40020-L	SK40020-L Signal contact	1	piece
2CCF201164R0001	SK40002-L	SK40002-L Signal contact	1	piece
2CCF201163R0001	SK40020-R	SK40020-R Signal contact	1	piece
2CCF201165R0001	SK40002-R	SK40002-R Signal contact	1	piece
2CCS500900R0141	SK40010-LSA	SK40010-LSA Signal contact	1	piece
2CCF201212R0001	HK40010-LSA	HK400 10-L SA Auxiliary switch	1	piece
2CCS500900R0216	SK40010-RSA	SK40010-RSA Signal contact	1	piece
2CCF201213R0001	HK40010-RSA	HK400 10-R SA Auxiliary switch	1	piece
2CCS500900R0161	ZLS931	ZLS931 Spare parts	1	piece
2CCS500900R0021	NT40163	NT401-63 Neutral disconnect terminal block	1	piece
2CCS500900R0011	NT40263	NT402-63 Neutral disconnect terminal block	1	piece
2CDS200909R0001	S2C-A1	S2C-A1 Shunt Trip	1	piece
2CDS200909R0002	S2C-A2	S2C-A2 Shunt Trip	1	piece
2CCA880212R0001	CMS-122PS	CMS-122PS Sensor	2	piece
2CCA880102R0001	CMS-102PS	CMS-102PS Sensor	2	piece

Categories

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

