PRODUCT-DETAILS

S402M-UCZ20

Miniature Circuit Breaker



General Information

Extended Product Type	S402M-UCZ20
Product ID	2CCS572001R1208
EAN	7612270110360
Catalog Description	Miniature Circuit Breaker
Long Description	The miniature circuit breaker S400M UC extends the established SMISSLINE TP product range with an MCB for DC and AC applications. The S400M UC impresses with its performance range. Its high inbuilt short circuit breaking capacity across the entire model line, its flexible AC and DC application. MCBs of the product range S400M UC are comply with IEC/EN 60947-2. The pluggable solution is only for the SMISSLINE TP System, allowing the use for commercial, industrial, and critical power applications. It is also the perfect fit for any application where costly downtime must be avoided.

ABB EcoSolutions

ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 58.6323356825684 %
Circular Design	9AKK108469A6507

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Principles Ecodesign	
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
Environmental Product Declaration - EPD	9AKK108469A5735

Technical

Standards	IEC/EN 60947-2
Tripping Characteristic	UC-Z
Rated Operational Voltage	acc. to IEC 60898-1 400 V
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/DC
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 Service Short-Circuit Breaking Capacity (I_{cs})	(220 V DC) 20 kA (440 V DC) 10 kA
Rated Service Short-Circuit Breaking Capacity, in % of Icu (I_{cs})	75 %
Frequency (f)	50 ... 60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	4.4 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
Trip Class	UC-Z
Release Type	Z
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	I / O
Mounting Position	Any

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Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Flexible 0.75 … 25 mm² Rigid 0.75 … 35 mm²
Terminal Type	Screw Terminals

Material Compliance

RoHS Information	9AKK107991A9644
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	30 °C
Degree of Protection	IP20
Pollution Degree	2
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	290 g
Built-In Depth (t_2)	75 mm
Dimension Diagram	9AKK107492A6192

Ordering

Package Level 1 Units	carton 5 piece
Package Level 1 Gross Weight	1514 g
E-Number (Norway)	1623380
E-Number (Switzerland)	809650107

Certificates and Declarations

Declaration of	9AKK107991A9644

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Conformity - CE

Installation

Instructions and Manuals	2CCC451019M0109

Popular Downloads

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	85363020
eClass	V11.0 : 27141901
Object Classification Code	FC

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CCS500900R0081	HK40011-L	Auxiliary swtich	1	piece
2CCS500900R0214	HK40011-R	Auxiliary swtich	1	piece
2CCF201112R0001	HK40020-L	Auxiliary swtich	1	piece
2CCF201114R0001	HK40002-L	Auxiliary swtich	1	piece
2CCF201113R0001	HK40020-R	Auxiliary swtich	1	piece
2CCF201115R0001	HK40002-R	Auxiliary 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-LSA	Auxiliary swtich	1	piece
2CCS500900R0216	SK40010-RSA	Signal contact	1	piece
2CCF201213R0001	HK40010-RSA	Auxiliary swtich	1	piece
2CCS500900R0161	ZLS931	Spare parts	1	piece
2CCA880212R0001	CMS-122PS	Sensor	2	piece
2CCA880102R0001	CMS-102PS	Sensor	2	piece

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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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