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 PRODUCT-DETAILS

# FS402MK-B10/0.03

## Residual Current Circuit Breaker with Overcurrent Protection




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**General Information**

Extended Product Type	FS402MK-B10/0.03
Product ID	2CCL563010E0105
EAN	7612271473778
Catalog Description	Residual Current Circuit Breaker with Overcurrent Protection
Long Description	Pluggable Residual Current Circuit Breaker with overcurrent Protection for the SMISLINE TP System acc. IEC/EN/DIN EN 61009-1, EN/DIN EN 61009-2-1 Rated breaking capacity I <sub>cn</sub> 10kA Type F; AP-R (high immunity) Tripping characteristic C Rated current I <sub>n</sub> 13A Rated sensitivity I <sub>Δn</sub> 0.03 Rated voltage U <sub>e</sub> 240/415VAC

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**Technical**

Standards	IEC 61009-1 EN 61009-1 EN 61009-2-1
Tripping Characteristic	C
Type of Residual Current	Type F
Rated Operational Voltage	acc. to IEC 60898-1 415 V
Rated Insulation Voltage	acc. to IEC/EN 60664-1 500 V

(U<sub>i</sub>)

Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV
Dielectric Test Voltage	2500 V
Input Voltage Type	AC
Rated Current (I <sub>n</sub> )	20 A
Rated Operational Current (I <sub>e</sub> )	20 A
Rated Residual Current	30 mA
Rated Short-Circuit Capacity	10 kA
Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )	15 kA
Rated Residual Breaking Capacity (I <sub>Δm</sub> )	10000 A
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )	(240 V AC) 15 kA
Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> )	10 kA
Maximum Surge Current	3 kA
Rated Frequency (f)	50 ... 60 Hz
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 cycle
Mechanical Endurance	20000 cycle
Number of Protected Poles	3
Number of Poles	4
Operating Characteristic	Instantaneous
Overvoltage Category	III
Position of Neutral Terminals	Right
Tightening Torque	2.8 N·m
Actuator Type	Toggle
Earthing Switch Type	Short-Time Delayed
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Material	Insulation Group II, Black, Sealable
Housing Material	Insulation Group I, RAL 7035
Mounting Position	Any
Accessories Available	Yes
Connecting Capacity	Stranded 0.75 ... 35 mm <sup>2</sup> Flexible 0.75 ... 25 mm <sup>2</sup>
Rated Cross-Section	1 - Solid-Core 0.75 ... 35 mm <sup>2</sup> 4 - Multi-Wired 0.75 ... 10 mm <sup>2</sup>

## Material Compliance

RoHS Information	9AKK107991A9646
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20210407
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

## Technical UL/CSA

Short-Circuit Current Rating (SCCR)	0.03 A
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## Dimensions

Width in Number of Modular Spacings	4
Product Net Width	54 mm
Product Net Height	91 mm
Product Net Depth / Length	91 mm
Product Net Weight	312 g
Built-In Depth (t <sub>2</sub> )	76 mm
Dimension Diagram	9AKK107680A1587

## Ordering

Package Level 1 Units	carton 1 piece
Package Level 1 Gross Weight	466 g
E-Number (Norway)	1683664
Replacement Product ID (NEW)	2CCG001761R0001

## Installation

Instructions and Manuals	9AKK107680A1664
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## Popular Downloads

Data Sheet, Technical Information	9AKK107680A1587
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## Classifications

ETIM 8	EC000905 - Earth leakage circuit breaker
ETIM 9	EC000905 - Earth leakage circuit breaker
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business
CN8	85362020
eClass	V11.0 : 27142207
Object Classification Code	FB

## 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 → Residual Current Circuit Breakers with Overcurrent Protection RCBO

