



PRODUCT-DETAILS

FS401MK-C10/0.03

FS401MK-C10/0.03 Residual Current Circuit Breaker with Overcurrent Protection



General Information	
Extended Product Type:	FS401MK-C10/0.03
Product ID:	2CCG001698R0001
EAN:	7612271521677
Catalog Description:	FS401MK-C10/0.03 Residual Current Circuit Breaker with Overcurrent Protection
Long Description:	The FS401M-K series is a 1P+N pluggable Residual Current Circuit Breaker with overcurrent Protection for the SMISSLINE TP System for the protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts. The APR (K type) type provides an optimal trade-off between safety and continuity of service, thanks to the resistance to unwanted tripping, offering good protection and isolation of resistive and inductive loads
Display Name:	FS401MK-C10/0.03

ABB EcoSolutions	
Carbon Footprint (Full Lifecycle):	4.04805 kg CO ₂ eq

Recyclability Rate of the Product acc. to EN45555: Design for Closing Resource Loops - Standard EN45555 - 81.14 %

ABB Site Meeting Group Waste To Landfill Target: No non-hazardous waste is sent to a landfill

Sustainable Material Content in Packaging (wt. %): Recycled Cardboard - 100 %

Extended Product Lifetime: Product Durability

Offered with Takeback Services: Take Back for Recycling

End Of Life Disassembling Instructions: 9AKK108471A2433

Environmental Product Declaration - EPD: 9AKK108470A5866

Technical

Type of Residual Current:	Type F
Dielectric Test Voltage:	2500 kV
Rated Operational Current (I_e):	10 A
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	25 kA
Rated Residual Breaking Capacity ($I_{\Delta m}$):	10000 A
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(240 V AC) 15 kA
Rated Service Short-Circuit Breaking Capacity, in % of I_{cu} (I_{cs}):	10 kA
Maximum Surge Current:	3 kA
Contact Position Indication:	Red ON / Green OFF
Energy Limiting Class:	3
Electrical Endurance:	10000 cycle
Mechanical Endurance:	20000 cycle
Number of Protected Poles:	1
Number of Poles:	2P
Operating Characteristic:	Instantaneous (APR High Immunity)
Position of Neutral Terminals:	Right
Tightening Torque:	2.8 N·m
Earthing Switch Type:	Short-Time Delayed
Screw Terminal Type:	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Material:	Insulation Group II, Black, Sealable
Accessories Available:	Yes
Connecting Capacity:	Stranded 0.75 ... 35 mm ² Flexible 0.75 ... 25 mm ²
Rated Cross-Section:	1 - Solid-Core 0.75 ... 35 mm ² 4 - Multi-Wired 0.75 ... 10 mm ²
Actuator Type:	Toggle

Electrical

Tripping Characteristic:	C
Rated Operational Voltage:	acc. to IEC 60898-1 240 V
Rated Insulation Voltage (U_i):	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand Voltage (U_{imp}):	4 kV
Input Voltage Type:	AC
Rated Current (I_n):	10 A
Rated Residual Current:	30 mA
Rated Short-Circuit Capacity:	10 kA
Rated Frequency (f):	50 ... 60 Hz
Power Loss:	Total 1.9 W
Overvoltage Category:	III

Design

Housing Material:	Insulation Group I, RAL 7035
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Material Compliance

RoHS Declaration:	9AKK108469A5446
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date:	20240603
REACH Declaration:	9AKK108467A9561
REACH Information:	True - contains substances > 0.1 mass percentage
REACH Date:	20230417
Conflict Minerals Reporting Template (CMRT):	9AKK108468A3363
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B:	Business To Business

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:	68 mm
Product Net Weight:	200 g
Built-In Depth (t ₂):	78 mm
Dimension Diagram:	9AKK108469A5765

Ordering

Package Level 1 Units:	carton 1 piece
Package Level 1 Gross Weight:	222 g
E-Number (Norway):	1663929

Certificates and Declarations

Declaration of Conformity - CE:	9AKK108469A5446
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Installation

Instructions and Manuals:	2CCR665901B0001
Mounting Position:	Any

Popular Downloads

Data Sheet, Technical Information:	9AKK107492A6192
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External Classifications and Standards

ETIM 9:	EC000905 - Earth leakage circuit breaker
ETIM 10:	EC000905 - Earth leakage circuit breaker
Object Classification Code:	FB
Standards:	IEC 61009-1 EN 61009-1 EN 61009-2-1

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
2CCS500900R0081	Auxiliary switch left side mounted	HK40011-L	1	piece
2CCF201112R0001	Auxiliary switch left side mounted	HK40020-L	1	piece
2CCF201114R0001	Auxiliary switch left side mounted	HK40002-L	1	piece
2CCS500900R0101	Signal contact left side mounted	SK40011-L	1	piece

Identifier	Description	Type	Qty	Unit Of Measure
2CCF201162R0001	Signal contact left side mounted	SK40020-L	1	piece
2CCF201164R0001	Signal contact left side mounted	SK40002-L	1	piece
2CCS500900R0141	Signal contact right side mounted collective alarm	SK40010-LSA	1	piece
2CCF201212R0001	Auxiliary switch left side mounted collective alarm	HK40010-LSA	1	piece
2CCS500900R0161	Dummy housing compensation to 18 mm	ZLS931	1	piece
2CCA880212R0001	Open-Core Sensor 20A	CMS-122PS	1	piece
2CCA880102R0001	18mm Solid-Core Sensor 20A	CMS-102PS	1	piece

Categories

Products > 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

