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 PRODUCT-DETAILS

# S403E-C20NP

## Miniature Circuit Breaker




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**General Information**

Extended Product Type	S403E-C20NP
Product ID	2CCS553103R8204
EAN	7612271442873
Catalog Description	Miniature Circuit Breaker

Long Description	<p>SMISLINE TP S400E 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.</p> <p>They are available in different characteristics (B and C), configurations (1P,1P+N,2P,3P,3P+N), breaking capacities (6 kA at 230/400 V AC ) and rated currents (up to 63A). MCBs of the product range S400E are comply with IEC/EN 60898-1. The pluggable solution is only for the SMISLINE TP System, allowing the use for commercial, industrial, and critical power applications.</p>
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**ABB EcoSolutions**

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

## 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 60898-1
Tripping Characteristic	C
Rated Operational Voltage	acc. to IEC 60898-1 400 V
Operational Voltage	Minimum 12 V AC
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV
Input Voltage Type	AC
Rated Current (I <sub>n</sub> )	20 A
Rated Operational Current (I <sub>e</sub> )	20 A
Rated Short-Circuit Capacity	(230 V) 6 kA (400 V) 6 kA
Frequency (f)	50...60 Hz
Rated Frequency (f)	50 ... 60 Hz
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	4
Number of Poles	4
Overvoltage Category	III
Tightening Torque	2.8 N·m
Release Type	C
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 <sup>2</sup> Rigid 0.75 ... 35 mm <sup>2</sup>
Terminal Type	Screw Terminals

## Material Compliance

RoHS Information	9AKK107991A9633
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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	4
Resistance to Vibrations	1 mm 2 ... 13.2 Hz
Environmental Information	9AKK108467A9561

## Dimensions

Width in Number of Modular Spacings	4
Product Net Width	72 mm
Product Net Height	91 mm
Product Net Depth / Length	72 mm
Product Net Weight	221 g
Built-In Depth (t <sub>2</sub> )	82 mm

## Ordering

Package Level 1 Units	carton 5 piece
Package Level 1 Gross Weight	1169 g

## Certificates and Declarations

Declaration of Conformity - CE	9AKK107991A9633
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## Installation

Instructions and Manuals	No document needed
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## Popular Downloads

Data Sheet, Technical Information	9AKK107492A6192
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## Classifications

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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

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## Categories

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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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