



PRODUCT-DETAILS

S803S-K50

S803S-K50 High Performance MCB



General Information	
Extended Product Type	S803S-K50
Product ID	2CCS863001R0577
EAN	7612271201753
Catalog Description	S803S-K50 High Performance MCB
Long Description	The S803S-K50 is a 3-pole High Performance Circuit breaker with K-Characteristic, with cage terminal and a rated current of 50 A. It is a current limiting device with a maximum breaking capacity of 50kA at 240/415V. It can be used for voltages up to 400/690V and in DC as well. It has two different tripping mechanisms, the thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. The S803S-K50 complies with IEC/EN 60898-1 and IEC/EN 60947-2 and allows the use for residential, commercial and industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S803S-K50 more comfortable. Due to the fast arc extinction of S803S-K50 your application will be secured.
Technical	
Standards	IEC/EN 60947-2, IEC/EN 60898-1, UL 1077
Tripping Characteristic	K
Type of Residual Current	Standard Version

Rated Voltage (U _r)	acc. to IEC 60947-2 690 V AC acc. to IEC 60947-2 375 V DC acc. to IEC 60898-1 400 V AC
Rated Operational Voltage	acc. to IEC 60898-1 400 V
Rated Insulation Voltage (U _i)	acc. to IEC/EN 60664-1 690 V
Rated Impulse Withstand Voltage (U _{imp})	8 kV
Input Voltage Type	AC/DC
Rated Current (I _n)	50 A
Rated Operational Current (I _e)	50 A
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	(415 V) 50 kA (690 V) 6 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs})	(240 / 415 V AC) 40 kA (254 / 440 V AC) 22.5 kA (400 / 690 V AC) 4 kA (125 V DC) 30 kA
Frequency (f)	50 ... 60 Hz
Rated Frequency (f)	50/60 Hz
Power Loss	19.2 W at Rated Operating Conditions per Pole 6.4 W
Contact Position Indication	ON / OFF / TRIP
Energy Limiting Class	3
Electrical Endurance	6000 cycle
Mechanical Endurance	6000 cycle
Number of Protected Poles	3
Number of Poles	3
Overvoltage Category	IV
Tightening Torque	3.5 N·m 31 in·lb
Release Type	K
Actuator Marking	I / O
Housing Material	Insulation group I, RAL 7035
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting Position	Any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Remarks	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
Connecting Capacity	Flexible 0 ... 50 mm² Rigid 0 ... 70 mm²
Terminal Type	Screw Terminals

Material Compliance

RoHS Information	9AKK107680A3903 2CCC005083D0202
RoHS Status	Following EU Directive 2011/65/EU
RoHS Date	20170426
Conflict Minerals Reporting Template	9AKK108468A3363

(CMRT)

Environmental

Ambient Temperature	-25...60 °C
Ambient Air Temperature	Operation -25 ... 60 °C
Reference Ambient Air Temperature	acc. to IEC60947-2 40 °C acc. to EN60898-1 40 °C
Degree of Protection	IP20
Pollution Degree	3
Resistance to Vibrations	1 mm 2 - 13.2 Hz 0.7g with Load 100% x le 13.2 - 100 Hz
Environmental Information	2CCY413207D0203

Technical UL/CSA

Interrupting Rating acc. to UL1077	(480Y / 277 V AC) 14 kA (600Y / 347 V AC) 6 kA
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Dimensions

Width in Number of Modular Spacings	4.5
Product Net Width	81 mm
Product Net Height	95 mm
Product Net Depth / Length	82.5 mm
Product Net Weight	735 g
Size	3 modules
Built-In Depth (t ₂)	82.5 mm
Dimension Diagram	2CCC413003C0201

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	770 g
E-Number (Finland)	3212352
E-Number (Sweden)	2101607
E-Number (Switzerland)	807884315

Certificates and Declarations

Declaration of Conformity - CE	2CCC005083D0202
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Installation

Instructions and Manuals	2CCC413016M0008
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Popular Downloads		
Data Sheet, Technical Information		9AKK108468A9560
		9AKK108468A9561
		9AKK108468A9562

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	85362020	
UNSPSC	39121603	
eClass	V11.0 : 27141901	
IDEA Granular Category Code (IGCC)	4899 >> Miniature circuit breaker (MCB) screw-in model	
Object Classification Code	F	

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → High Performance Circuit Breakers HPCBs → High Performance Circuit Breakers HPCBs

