



PRODUCT-DETAILS

SB803X-K10

SB803X-K10 High Performance MCB

General Information	
Extended Product Type:	SB803X-K10
Product ID:	1SYS363003R0107
Catalog Description:	SB803X-K10 High Performance MCB
Long Description:	High performance MCB SB800X, have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B, C, D, K), configurations (1P,2P,3P,4P), breaking capacity of 50kA and rated currents (up to 125A). The product range SB800X comply with IS/IEC 60947-2.
Display Name:	SB803X-K10

Technical	
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu}):	(240 / 415 V AC) 50 kA (400 / 690 V AC) 6 kA (125 V DC) 1 pole 30 kA (250 V DC) 2 pole 30 kA (375 V DC) 3 pole 30 kA (500 V DC) 4 pole 30 kA
Rated Service Short-Circuit Breaking Capacity (I _{cs}):	(240 / 415 V AC) 40 kA
Power Supply Connection:	Arbitrary
Electrical Endurance:	10000 cycle
Mechanical Endurance:	10000 cycle
Number of Poles:	3P
Tightening Torque:	3.5 N·m
Screw Terminal Type:	Cage Terminal
Actuator Marking:	I / O
Actuator Material:	Insulation Group II, Black, Sealable
Recommended Screw Driver:	Pozidriv 2
Accessories Available:	No
Connecting Capacity:	Rigid Solid 1-70 mm ² Rigid Stranded 1-70 mm ² Flexible 1-50 mm ²
Wire Stripping Length:	19 mm

Terminal Type:	Screw Terminals
Actuator Type:	Toggle

Electrical

Tripping Characteristic:	K
Rated Operational Voltage:	acc. to IEC 60947-2 400/690 V AC
Rated Insulation Voltage (U _i):	acc. to IEC/EN 60664-1 690 V AC
Rated Impulse Withstand Voltage (U _{imp}):	acc. to IEC 60947-2 8 kV
Rated Current (I _n):	10 A
Rated Frequency (f):	50 / 60 Hz
Overvoltage Category:	IV

Design

Housing Material:	Material group I
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Material Compliance

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 Storage -40 ... +70 °C
Reference Ambient Air Temperature:	acc. to IEC60947-2 -25..+60 °C
Degree of Protection:	IP20 Enclosure with Cover IP40
Pollution Degree:	3
Resistance to Shock acc. to IEC 60068-2-27:	25g 2 shocks 30 ms

Dimensions

Product Net Width:	81 mm
Product Net Height:	95 mm
Product Net Depth / Length:	82.5 mm
Product Net Weight:	0.72 kg

Installation	
Mounting on DIN Rail:	35 mm acc. to EN60715
Mounting Position:	any

External Classifications and Standards	
ETIM 9:	EC000042 - Miniature circuit breaker (MCB)
ETIM 10:	EC000042 - Miniature circuit breaker (MCB)
Standards:	IEC 60947-2

Categories
Products > Low Voltage Products and Systems > Modular DIN Rail Products > High Performance Circuit Breakers HPCBs > High Performance Circuit Breakers HPCBs - S800