

PRODUCT-DETAILS

S801S-K32 S801S-K32 High Performance MCB



General Information

Extended Product Type	S801S-K32
Product ID	2CCS861001R0537
EAN	7612271201494
Catalog Description	S801S-K32 High Performance MCB

Long Description

The S801S-K32 is a 1-pole High Performance Circuit breaker with K-Characteristic, with cage terminal and a rated current of 32 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 S801S-K32 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 S801S-K32 more comfortable. Due to the fast arc extinction of S801S-K32 your application will be

Technical

Standards	IEC/EN 60947-2, IEC/EN 60898-1, UL 1077
Tripping Characteristic	К
Type of Residual Current	standard version
Rated Voltage (U _r)	acc. to IEC 60947-2 400 V AC

acc. to IEC 60947-2 400 V AC acc. to IEC 60947-2 125 V DC

Rated Operational Voltage (VI) acc. to IEC 6088-1 230 V (VI) Rated Impulse Withstand Voltage (VI) acc. to IEC/EN 6088-1 230 V (VI) Rated Impulse Withstand Voltage (VI) 8 kV Pound Impulse Withstand Voltage (VI) ACDC Rated Current (I _x) 3 2 A Rated Current (I _x) 3 2 A Rated Operational Current (I _x) 3 2 A Rated Operational Short-Circuit Reading Capacity (VI) (230 V) 50 KA Rated Conditional Short-Circuit Current (I _x) (230 V) 50 KA Circuit Breaking Capacity (VI) (240 V) 450 KA (AV) 40 KA (acc. to IEC 60898-1 230/400 V AC
Part Part	Rated Operational Voltage	acc. to IEC 60898-1 230 V
Voltage (Vimp) AC/DC Rated Current (In) 32 A Rated Operational Current (In) 32 A Rated Operational Current (In) 32 A Rated Operational Current (In) (230 V) 50 AA Circuit Breaking Capacity (In) (230 V) 50 AA Rated Service Short- (Inc) (230 V) 50 AA Circuit Greating Capacity (Inc) (240 / 415 V AC) 40 AA Circuit Breaking Capacity (Inc) (240 / 415 V AC) 40 AA Circuit Breaking Capacity (Inc) (240 / 415 V AC) 40 AA Circuit Breaking Capacity (Inc) (240 / 415 V AC) 40 AA Circuit Breaking Capacity (Inc) (240 / 415 V AC) 40 AA Frequency (Inc) 50 Am (240 / 415 V AC) 40 AA Reted Service Short- (Inc) (240 / 415 V AC) 40 AA Circuit Breaking Capacity (Inc) 50 Am (240 / 415 V AC) 40 AA Frequency (Inc) 50 Am (240 / 415 V AC) 40 AA Reted Service Short- (Inc) (240 / 415 V AC) 40 AA Frequency (Inc) 50 Am (240 / 415 V AC) 40 AA Reted Service Short- (Inc) 50 Am (240 / 415 V AC) 40 AA Reted Service Short- (Inc) 60 Am (240 / 415 V AC) 40 AA Contact Position (Inc)	=	acc. to IEC/EN 60664-1 690 V
Rated Current (I _x) 32 A Rated Operational Current (I _x) 32 A Rated Ultimate Short- (Crucil Breaking Capacity (I _x) (230 V) 50 kA Rated Conditional Short- (Crucil Ereaking Capacity (I _x) (230 V) 50 kA Rated Service Short- (I _x) (240 V 15 V AC) 40 kA Circuit Breaking Capacity (I _x) (240 / 415 V AC) 40 kA Circuit Breaking Capacity (I _x) (240 / 415 V AC) 40 kA Circuit Breaking Capacity (I _x) (240 / 415 V AC) 40 kA Frequency (f) 50 (420 / 440 V AC) 22.5 kA Rated Frequency (f) 50 (420 / 440 V AC) 22.5 kA Rated Frequency (f) 50 (66 Hz) Power Loss 3 T W AC (420 / 440 V AC) 22.5 kA Rated Frequency (f) 50 (66 Hz) Power Loss 3 T W AC (420 / 440 V AC) 22.5 kA Contact Position 0 N (125 V DC) 30 kA Contact Position 0 N (75 Y T R)F Indication 0 N (75 Y T R)F Energy Limiting Class 3 Electrical Endurance 10000 cycle Number of Poles 1 Number of Poles 1 Number of Poles 1		8 kV
Rated Operational Current (I _Q) 32 A (I _Q) Rated Ultimate Short- (Croult Breaking Capacity (I _Q) (230 V) 50 MA (200 V) 6 MA (I _Q) Rated Conditional Short- (Croult Breaking Capacity (I _Q) (230 V) 50 MA (240 V) 50 MA (245 V) 40 MA	Input Voltage Type	AC/DC
(1 e) Rated Ultimate Short-	Rated Current (I _n)	32 A
Circuit Breaking Capacity (1/m²) (400 √) 6 KA (1/m²) Rated Conditional Short- (iruc) (230 √) 50 KA (400 √) 50 KA Rated Service Short- (iruc) (240 / 415 √ A2) 40 KA (25 √ A40 √ A2) 25 KA (10 √ A2) 50 KA (32 A
Rated Conditional Short- Circuit Current (1 _{nc}) (230 V) 50 NA Rated Service Short- Circuit Breaking Capacity (240 / 145 V AC) 40 NA (1 _{ca}) (240 / 145 V AC) 40 NA (1 _{ca}) (254 / 440 V AC) 22.5 NA (1 _{ca}) (125 V DC) 30 NA Frequency (f) 50 60 Hz Rated Frequency (f) 50.060 Hz Power Loss 3.7 W at Rated Operating Conditions per Pole 3.7 W Contact Position ON / OFF / TRIP Indication No / OFF / TRIP Indication 3 Electrical Endurance 10000 cycle Number of Poles 1 Number of Protected Pole	Circuit Breaking Capacity	
Circuit Current (Inc) (400 √) 50 kA Rated Service Short- Circuit Breaking Capacity (240 / 415 V AC) 40 kA (125 V DC) 30 kA Frequency (f) 5060 Hz Rated Frequency (f) 5060 Hz Rated Frequency (f) 5060 Hz Power Loss 3.7 W Confact Position Indication ON / OFF / TRIP Indication Indication ON / OFF / TRIP Indication Energy Limiting Class 3 Electrical Endurance 10000 cycle Mechanical Endurance 10000 cycle Number of Poles 1 Number of Protected 1 Poles 1 Overvoltage Category IV Tightening Torque 3.5 N·m 3.1 in/b Release Type Actuator Marking 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Mounting Position Accessories Available Yes Recommended Screw Driver Accessories Available Yes Recommended Screw Connection from top and bottom Connecting with		(000) \(\sigma \)
Circuit Breaking Capacity (I _{cs}) (254 / 440 V AC) 22.5 kA (125 V DC) 30 kA (125 V DC		
Rated Frequency (f) 50/60 Hz Power Loss 3.7 W at Rated Operating Conditions per Pole 3.7 W Contact Position ON / OFF / TRIP Indication ON / OFF / TRIP Indication 3.8 Electrical Endurance 10000 cycle Mechanical Endurance 10000 cycle Mechanical Endurance 10000 cycle Mechanical Endurance 10000 cycle Number of Poles 10000 cycle Number of Protected Poles 11 Number of Protected Poles 12 Number of Protected 11 Number of Protected 12 Number of Protected 13.5 N·m 31 in lb Release Type K Actuator Marking 1/O Nounting 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 Drozel Driver 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 mm* Rigid 0 70 mm*	Circuit Breaking Capacity	(254 / 440 V AC) 22.5 kA (400 / 690 V AC) 4 kA
Power Loss 3.7 W at Rated Operating Conditions per Pole 3.7 W Contact Position Indication ON / OFF / TRIP Indication Energy Limiting Class Electrical Endurance 10000 cycle Mechanical Endurance 10000 cycle Mechanical Endurance 10000 cycle Mechanical Endurance 10000 cycle Number of Poles 10000 cycle Number of Protected Poles Overvoltage Category IV Tightening Torque 3.5 N·m 3.1 inlb Release Type K Actuator Marking Nounting 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 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	Frequency (f)	50 60 Hz
Contact Position Indication	Rated Frequency (f)	50/60 Hz
Indication Energy Limiting Class 3 Electrical Endurance 10000 cycle Mechanical Endurance 10000 cycle Mechanical Endurance 10000 cycle Number of Poles 1 Number of Protected Poles Overvoltage Category IV Tightening Torque 3.5 N·m 31 in·lb Release Type K Actuator Marking 1 Housing Material Insulation group I, RAL 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 Mounting Position Any Recommended Screw Driver 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 Rigid 0 70 mm²	Power Loss	
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Number of Poles 1 Number of Protected Poles 1 Number of Protected Poles 1 Overvoltage Category 1 V Tightening Torque 3.5 N·m 31 in·lb Release Type K Actuator Marking 1 Housing Material 1 Nunting on DIN Rail 1 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 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 Rigid 0 70 mm²	Electrical Endurance	10000 cycle
Number of Protected Poles Overvoltage Category IV Tightening Torque S.5 N·m 31 in·lb Release Type K Actuator Marking Housing Material 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 Accessories Available 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	Mechanical Endurance	10000 cycle
Poles Overvoltage Category Tightening Torque 3.5 N·m 31 in·lb Release Type Actuator Marking Housing Material Kounting 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		
Tightening Torque 3.5 N-m 31 in-lb Release Type K Actuator Marking Housing Material 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Any Recommended Screw Driver 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		1
Release Type K Actuator Marking Housing Material Rounting 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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Mounting Position Any Recommended Screw Driver Accessories Available 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	Overvoltage Category	IV
Actuator Marking 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 Recommended Screw Driver 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	Tightening Torque	
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 Pozidriv 2 Driver 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	Release Type	К
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 Recommended Screw Driver Accessories Available 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	Actuator Marking	1/0
Mounting Position Recommended Screw Pozidriv 2 Driver Accessories Available 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	Housing Material	Insulation group I, RAL 7035
Recommended Screw Driver Accessories Available 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	Mounting on DIN Rail	
Driver Accessories Available 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	Mounting Position	Any
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		Pozidriv 2
Connecting Capacity Flexible 0 50 mm² Rigid 0 70 mm²	Accessories Available	Yes
Rigid 0 70 mm ²	Remarks	· · · · · · · · · · · · · · · · · · ·
Terminal Type Screw Terminals	Connecting Capacity	
	Terminal Type	Screw Terminals

Environmental

Ambient Temperature	-2560 °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 acc. to IEC 60068-2-6	2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x le
RoHS Status	Following EU Directive 2011/65/EU
RoHS Information	9AKK107680A3903 2CCC005083D0202
Environmental Information	2CCY413207D0203
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
Technical UL/CSA	
Interrupting Rating acc. to UL1077	(240 V AC) 30 kA (277 V AC) 14 kA (347 V AC) 6 kA
Dimensions	
Width in Number of Modular Spacings	1.5
Product Net Width	27 mm
Product Net Height	95 mm
Product Net Depth / Length	82.5 mm
Product Net Weight	245 g
Size	1 module
Built-In Depth (t ₂)	82.5 mm
Dimension Diagram	2CCC413003C0201
Ordering	
Minimum Order Quantity	1 piece
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	270 g
E-Number (Finland)	3212300
E-Number (Switzerland)	807822315
Certificates and Declarations	
Declaration of Conformity - CE	2CCC005083D0202

Installation	
Instructions and Manuals	2CCC413016M0008

Popular Downloads	
Data Sheet, Technical	2CCC413003C0208
Information	

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	4899 >> Miniature circuit breaker (MCB) screw-in model
Code (IGCC) Object Classification Code	

Categories

 $Low\ Voltage\ Products\ \to\ Modular\ DIN\ Rail\ Products\ \to\ High\ Performance\ Circuit\ Breakers\ HPCBs\ \to\ High\ Performance\ Circuit\ Breakers\ HPCBs$





