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PRODUCT-DETAILS

S804S-B40

S804S-B40 High Performance MCB



General Information	
Extended Product Type	\$804S-B40
Product ID	2CCS864001R0405
EAN	7612271200428
Catalog Description	S804S-B40 High Performance MCB
Long Description	The S804S-B40 is a 4-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 40 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 S804S-B40 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 S804S-B40 more comfortable. Due to the fast arc extinction of S804S-B40 your application will be secured.

Technical	
Standards	IEC/EN 60947-2, IEC/EN 60898-1, UL 1077
Tripping Characteristic	В
Type of Residual Current	Standard Version

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Rated Operational	Rated Voltage (U _r)	acc. to IEC 60947-2 690 V AC
Voltage Maximum 230/400 V AC Minimum 12 V AC Rated Insulation Voltage (Uin) Maximum 230/400 V AC Minimum 12 V AC Rated Insulation Voltage (Uin) Acc. to IEC/EN 60664-1 690 V (U) Rated Insulation Voltage (Uinpulse Withstand Voltage (Uinpulse Vithstand Vith		acc. to IEC 60947-2 500 V DC acc. to IEC 60898-1 400 V AC
Minimum 12 V AC Rated Insulation V O I tage (U in) Rated Insulation V O I tage (U inpulse (U inpulse (U inpulse (U inpulse (U input V O I tage		acc. to IEC 60898-1 400 V
Rated Impulse Rated Current (In) Rated Current (In) Rated Current (In) Rated Short-Circuit Rated Short-Circuit Breaking Rated Village Rated Service Short-Circuit Breaking Rated Review Short-Circuit Breaking Rated Review Short-Circuit Breaking Rated Village Rated Vil	Operational Voltage	Maximum 230/400 V AC Minimum 12 V AC
Withstand Voltage (Upm) AC/DC Rated Current (In) 40.04 Rated Current (In) 40.04 Rated Operational (23.0V) 25.6A Current (In) (23.0V) 25.6A Rated Short-Circuit (40.0V) 25.6A Capacity (400.0V) 25.6A Rated Ultimate Short- (415.V) 50.6A Capacity (Inc) (690.V) 6.6A Rated Service Short- (240.415.VA.04) 0.6A Capacity (Inc) (240.415.VA.04) 0.6A Capacity (Inc) (240.0.69.VA.04) 0.6A Capacity (Inc) (30.0.0.0.0.0.0A Red Frequency (I) (30.0.0.0.0.0A Capacity (Inc) (30.0.0.0.0.0A Capacity (Inc) (30.0.0.0.0.0A Capacity (Inc) (30.0.0.0.0.		acc. to IEC/EN 60664-1 690 V
Rated Current (In) 40 A Rated Operational Current (Ie) 40 A Rated Short-Circuit Capacity (230 V) 25 kA (400 V) 25 kA (415 V) 50 kA Rated Ultimate Short- Circuit Breaking Capacity (Ica) (890 V) 6 kB Rated Service Short- Circuit Breaking Capacity (Ica) (240 / 415 V AC) 40 kA (255 / 440 V AC) 225 kA Rated Service Short- Circuit Breaking Capacity (Ica) (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 Rotted Frequency (f) 6060 Hz Rotted Frequency (f)	Withstand Voltage (U _{imp}	8 kV
Rated Operational Current (Ie) 40 Ar Current (Ie) Rated Short-Circuit (230 Y) 25 kA (400 K)	Input Voltage Type	AC/DC
Current (le) (230 V) 25 kz Rated Short-Circuit (230 V) 25 kz Capacitry (400 V) 25 kz Circuit Breaking (690 V) 6 kz Circuit Breaking (240 / 415 V AC) 40 kz Rated Service Short- (240 / 415 V AC) 40 kz Circuit Breaking (400 / 690 V AC) 25 kz Capacity (lcs) (400 / 690 V AC) 25 kz Capacity (lcs) (400 / 690 V AC) 25 kz Frequency (f) 50 60 Hz Rated Frequency (f) 50 60 Hz Rated Frequency (f) 50 60 Hz Power Loss 18 kw Contact Position ON / 0FF / TRIP indication Einergy Limiting Class 3 Electrical Endurance 6000 cycle Mechanical Endurance 4000 cycle Mechanical Endurance 4000 cycle Number of Protected 4 Poles 4 Number of Poles 4 Overvoltage Category 1 Tightening Torque 1 Release Type 1 Actuator Marking 1	Rated Current (In)	40 A
Capacity (400 V) 25 kA Rated Ultimate Short- Circuit Breaking Capacity (L _{CD}) (415 V) 50 kA Rated Service Short- Circuit Breaking Capacity (L _{CD}) (240 / 415 V AC) 40 kA Capacity (L _{CD}) (254 / 440 V AC) 22.5 kA Capacity (L _{CD}) (254 / 440 V AC) 22.5 kA Capacity (L _{CD}) (254 / 440 V AC) 22.5 kA Capacity (L _{CD}) (254 / 440 V AC) 25.5 kA Frequency (f) 50.60 Hz Rated Frequency (f) 50.60 Hz Power Loss 14.8 Wa Contact Position ON / OFF / TRIF Indication Indication ON / OFF / TRIF Indication Energy Limiting Class 3 Electrical Endurance 6000 cycle Mechanical Endurance 4000 cycle Mechanical Endurance 4000 cycle Number of Protected 9 Poles 3.5 N·m Number of Protected 3.5 N·m Overvoltage Category N Tightening Torque 3.5 N·m Release Type B Actuator Marking 1.0 Mounting Position Annual M	•	40 A
Circuit Breaking Capacity (Icu) (690 V) 6 km Rated Service Short- Circuit Breaking (240 / 415 V AC) 40 km Capacity (Ics) (254 / 440 V AC) 22.5 km Capacity (Ics) (400 / 690 V AC) 4 km Frequency (f) 50.60 Hz Rated Frequency (f) 50.60 Hz Power Loss 3 Rated Operating Conditions per Pole 3.7 km Contact Position ON / OFF / TRIP Indication Indication ON / OFF / TRIP Indication Energy Limiting Class 3 Electrical Endurance 6000 cycle Mechanical Endurance 4000 cycle Number of Protected 3 Sh mm Poles 3 Sh mm Standard States 3 Sh mm Standard		(230 V) 25 kA (400 V) 25 kA
Circuit Breaking (254 / 440 V AC) 22.5 kg Capacity (I _{cs}) (400 / 690 V AC) 4 kg Frequency (f) 50 60 Hz Rated Frequency (f) 50 //60 Hz Power Loss 3 14.8 kg Contact Position ON / OFF / TRIF Indication Energy Limiting Class 3 Electrical Endurance 6000 cycle Mechanical Endurance 4000 cycle Number of Protected Poles 4 Overvoltage Category Iv Tightening Torque 3.5 N·m Release Type 8 Actuator Marking 1 C Housting Material Insulation group I, RAL 7035 Mounting on DIN Rail T135-15 (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 Th35-7.5 mr Mounting Rail) acc. to IEC 60715 Correction from top and bottom Connecting with CU only IPA0 in enclosure with cover Cage terminal with captive screw Connecting Capacity Flexible 0 50 mm Rigid 0 70 mm Rigid 0 70 mm Rigid 0 70 mm	Circuit Breaking	(415 V) 50 kA (690 V) 6 kA
Rated Frequency (f) Power Loss 14.8 W at Rated Operating Conditions per Pole 3.7 W Contact Position Indication Energy Limiting Class Electrical Endurance Mechanical Enduranc	Rated Service Short- Circuit Breaking	(240 / 415 V AC) 40 kA (254 / 440 V AC) 22.5 kA (400 / 690 V AC) 4 kA (125 V DC) 30 kA
Power Loss 14.8 W at Rated Operating Conditions per Pole 3.7 W Contact Position ON / OFF / TRIP Indication Energy Limiting Class 3 Electrical Endurance 6000 cycle Mechanical Endurance 4000 cycle Number of Protected Poles Number of Poles	Frequency (f)	50 60 Hz
At Rated Operating Conditions per Pole 3.7 W Contact Position	Rated Frequency (f)	50/60 Hz
Contact Position Indication Energy Limiting Class Electrical Endurance Mechanical Endurance Mechanical Endurance Mechanical Endurance Mechanical Endurance Mechanical Endurance Movervoltage of Protected Poles Number of Pol	Power Loss	14.8 W
Indication Energy Limiting Class Electrical Endurance Mechanical Endurance Mechanical Endurance Momber of Protected Poles Number of Pole	6	· · · · · ·
Electrical Endurance 6000 cycle Mechanical Endurance 4000 cycle Number of Protected Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N·m 31 in·lb Release Type 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 Connecting Capacity Flexible 0 50 mm² Rigid 0 70 mm²		ON / OFF / TRIP
Mechanical Endurance 4000 cycle Number of Protected Poles Number of Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N·m 31 in·lb Release Type 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 Consecting Screw Pozidriv 2 Poxidriv 2 Connecting Capacity Flexible 0 50 mm² Rigid 0 70 mm²	Energy Limiting Class	3
Number of Protected Poles Number of Poles Number of Poles Overvoltage Category Tightening Torque 3.5 N-m 31 in-lb Release Type 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 Connecting 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 Rigid 0 70 mm² Rigid 0 70 mm²	Electrical Endurance	6000 cycle
Poles Number of Poles Overvoltage Category Tightening Torque Tight	Mechanical Endurance	4000 cycle
Overvoltage Category Tightening Torque 3.5 N·m 31 in·lbc Release Type 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 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 Rigid 0 70 mm²		4
Tightening Torque 3.5 N-m 31 in-lb Release Type Actuator Marking I / O 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 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 Rigid 0 70 mm²	Number of Poles	4
Release Type Actuator Marking Housing Material Mounting on DIN Rail 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 Rigid 0 70 mm² Rigid 0 70 mm² Rigid 0 70 mm²	Overvoltage Category	IV
Actuator Marking Housing Material Rounting on DIN Rail Mounting Position Recommended Screw Driver Accessories Available Remarks Connecting Capacity Flexible 0 70 mm² Rigid 0 70 mm² Rigid 0 70 mm²	Tightening Torque	3.5 N·m 31 in·lb
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 mm ² Rigid 0 70 mm ²	Release Type	В
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 mm ² Rigid 0 70 mm ²	Actuator Marking	1/0
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	<u> </u>	Insulation group I, RAL 7035
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	Mounting on DIN Rail	TH35-15 (35 \times 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 \times 7.5 mm Mounting Rail) acc. to IEC 60715
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 mm ² Rigid 0 70 mm ²		Pozidriv 2
Connecting Capacity Flexible 0 50 mm ² Rigid 0 70 mm ²		Yes
Rigid 0 70 mm ²	Remarks	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
Terminal Type Screw Terminals	Connecting Capacity	Flexible 0 50 mm² Rigid 0 70 mm²
	Terminal Type	Screw Terminals

Material	Comp	liance
	~~p	

RoHS Information	9AKK107680A3903
	2000508300202

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RoHS Status	Following EU Directive 2011/65/EU
RoHS Date	20170426
Conflict Minerals	9AKK108468A3363
Reporting Template	
(CMRT)	

Environmental	
Ambient Temperature	-2560 °C
Ambient Air Temperature	Operation -25 60 °C
Reference Ambient Air Temperature	acc. to IEC60947-2 30 °C acc. to EN60898-1 30 °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.	(480Y / 277 V AC) 14 kA
to UL1077	(600Y / 347 V AC) 6 kA

Dimensions	
Width in Number of Modular Spacings	6
Product Net Width	106 mm
Product Net Height	95 mm
Product Net Depth / Length	82.5 mm
Product Net Weight	980 g
Size	4 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	1010 g
E-Number (Finland)	3212086
E-Number (Switzerland)	807023335

Certificates and Declarations	
Declaration of	2CCC005083D0202
Conformity - CE	

Installation

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Instructions and 2CCC413016M0008 Manuals

Popular Downloads	
Data Sheet, Technical	9AKK108468A9560
Information	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

 $Low\ Voltage\ Products\ and\ Systems\ \rightarrow\ Modular\ DIN\ Rail\ Products\ \rightarrow\ High\ Performance\ Circuit\ Breakers\ HPCBs\ \rightarrow\ High\ Performance\ Circuit\ Breakers\ HPCBs$





