PRODUCT-DETAILS

S801S-C16

S801S-C16 High Performance MCB



General Information

Extended Product Type:	S801S-C16
Product ID:	2CCS861001R0164
EAN:	7612271200503
Catalog Description:	S801S-C16 High Performance MCB
Long Description:	The S801S-C16 is a 1-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 16 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-C16 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-C16 more comfortable. Due to the fast arc extinction of S801S-C16 your application will be secured.
Display Name:	S801S-C16

ABB EcoSolutions

Carbon Footprint:	Full Lifecycle 32.4 kg CO_2 eq
ABB EcoSolutions Profile:	9AKK108471A1082

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Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 86.29 %
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill
End Of Life Disassembling Instructions:	9AKK108470A2575
Environmental Product Declaration - EPD:	9AKK108470A1696

Technical

Type of Residual Current:	Standard Version
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(240 V AC) 50 kA (254 V AC) 30 kA (289 / 500 V AC) 15 kA (400 V AC) 6 kA (125 V DC) 30 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(240 V AC) 40 kA (254 V AC) 22.5 kA (289 / 500 V AC) 11 kA (400 V AC) 4 kA (125 V DC) 30 kA
Contact Position Indication:	ON / OFF / TRIP
Energy Limiting Class:	3
Electrical Endurance:	10000 cycle
Mechanical Endurance:	10000 cycle
Number of Protected Poles:	1
Number of Poles:	1P
Tightening Torque:	3.5 N·m 31 in·lb
Release Type:	C
Actuator Marking:	I / O
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

Electrical

Tripping Characteristic:	C
Rated Operational Voltage:	acc. to IEC 60898-1 230 V AC acc. to IEC 60947-2 400 V AC
Operational Voltage:	Maximum 230/400 V AC Minimum 12 V AC
Rated Insulation Voltage (U_i):	acc. to IEC/EN 60664-1 690 V
Rated Impulse Withstand Voltage (U_{imp}):	8 kV

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Input Voltage Type:	AC/DC
Rated Current (I_n):	16 A
Rated Short-Circuit Capacity:	(230 / 400 V AC) 25 kA
Frequency (f):	50 ... 60 Hz
Rated Frequency (f):	50/60 Hz
Power Loss:	Total 3.1 W at Rated Operating Conditions per Pole 3.1 W
Overvoltage Category:	IV

Design

Housing Material:	Insulation group I, RAL 7035

Technical UL/CSA

Interrupting Rating acc. to UL1077:	(240 V AC) 30 kA (277 V AC) 14 kA (347 V AC) 6 kA

Material Compliance

RoHS Declaration:	2CCC005083D0202
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date:	20211214
REACH Declaration:	9AKK108470A9089
REACH Information:	False - does not contain substances > 0.1 mass percentage
REACH Date:	20250313
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 -40 ... 70 °C Storage -40 ... 70 °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 Ie 13.2 - 100 Hz
Environmental Information:	2CCY413207D0203

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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
Built-In Depth (t_2):	82.5 mm
Dimension Diagram:	2CCC413003C0201

Engineering

EPLAN Data:	9AAC172534_EPLAN

Ordering

Package Level 1 Units:	box 1 piece
Package Level 1 Gross Weight:	270 g
E-Number (Finland):	3212102
E-Number (Norway):	1628750
E-Number (Switzerland):	807119315

Certificates and Declarations

CB Certificate:	9AKK107680A0857
CCC Certificate:	9AKK108469A3021
Declaration of Conformity - CE:	2CCC005083D0202
DNV GL Certificate:	2CCC413018D0201
ESTI Certificate:	2CCC413020D0101
LR Certificate:	2CCC413017D0201
RINA Certificate:	2CCC413019D0201
UL Certificate:	9AKK107680A2286
VDE Certificate:	2CCC413039D0601

Installation

Instructions and Manuals:	2CCC413016M0008
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

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Popular Downloads

Data Sheet, Technical Information:	9AKK108468A9560 9AKK108468A9561 9AKK108468A9562

External Classifications and Standards

ETIM 9:	EC000042 - Miniature circuit breaker (MCB)
ETIM 10:	EC000042 - Miniature circuit breaker (MCB)
UNSPSC:	39121603
eClass:	V11.0 : 27141901
IDEA Granular Category Code (IGCC):	4899 >> Miniature circuit breaker (MCB) screw-in model
Object Classification Code:	F
Standards:	IEC/EN 60947-2 IEC/EN 60898-1 UL 1077

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
2CCS800900R0061	Various - Neutral disconnector	S800-NT	1	piece
2CCS800900R0011	auxiliary contact	S800-AUX	1	piece
2CCS800900R0021	Auxiliary and signal contact	S800-AUX/ALT	1	piece
2CCS800900R0201	Shunt Operating Release	S800-SOR12	1	piece
2CCS800900R0191	Shunt Operating Release	S800-SOR24	1	piece
2CCS800900R0221	Shunt Operating Release	S800-SOR130	1	piece
2CCS800900R0211	Shunt Operating Release	S800-SOR250	1	piece
2CCS800900R0231	Shunt Operating Release	S800-SOR400	1	piece
2CCF019568R0001	Busbar	S804-BB250	1	piece
2CCF019569R0001	Busbar	S804-BBPC120	1	piece
2CCS800900R0071	Busbar	S803-BB250	1	piece
2CCS800900R0081	Busbar	S800-BBIC	1	pack
2CCS800900R0091	Busbar	S800-END	1	pack
2CCS800900R0101	Busbar	S803-BBPC120	1	piece
2CCF019562R0001	Busbar	S803-BB6	1	pack
1SDA060150R0001	Rotary drive/handle	S800-RHE-H	1	piece
1SDA060151R0001	Rotary drive/handle	S800-RHE-EM	1	piece
1SDA060179R0001	Rotary drive/handle	S800-RHE-S	1	piece
1SDA060180R0001	Rotary drive/handle	S800-RHE-IP54	1	piece
2CCS800900R0041	Rotary drive/handle	S800-RD	1	piece
2CCS801901R0599	Self-resetting short-circuit limiter	S801S-SCL63-SR	1	piece

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Identifier	Description	Type	Qty	Unit Of Measure
2CCS801901R0639	Self-resetting short-circuit limiter	S801S-SCL100-SR	1	piece
2CCS802901R0539	Self-resetting short-circuit limiter	S802S-SCL32-SR	1	piece
2CCS802901R0599	Self-resetting short-circuit limiter	S802S-SCL63-SR	1	piece
2CCS802901R0639	Self-resetting short-circuit limiter	S802S-SCL100-SR	1	piece
2CCS803901R0539	Self-resetting short-circuit limiter	S803S-SCL32-SR	1	piece
2CCS803901R0599	Self-resetting short-circuit limiter	S803S-SCL63-SR	1	piece
2CCS803901R0639	Self-resetting short-circuit limiter	S803S-SCL100-SR	1	piece
2CCS803917R0539	Self-resetting short-circuit limiter	S803W-SCL32-SR	1	piece
2CCS803917R0599	Self-resetting short-circuit limiter	S803W-SCL63-SR	1	piece
2CCS803917R0639	Self-resetting short-circuit limiter	S803W-SCL100-SR	1	piece
2CCS801901R0539	Self-resetting short-circuit limiter	S801S-SCL32-SR	1	piece
2CCS800900R0241	Undervoltage release	S800-UVR36	1	piece
2CCS800900R0251	Undervoltage release	S800-UVR60	1	piece
2CCS800900R0271	Undervoltage release	S800-UVR250	1	piece
2CCS800900R0261	Undervoltage release	S800-UVR130	1	piece
2CCS800900R0561	Various - clips	S800-RAFIX Set Clips	1	pack
2CCS800900R0161	Various - interchangable adapter kit	S800-RT2125	1	pack
2CCS800900R0131	Various - interchangable adapter kit	S800-RT4125	1	pack
2CCS800900R0151	Various - interchangable adapter kit	S800-CT4125	1	pack
2CCS800900R0181	Various - interchangable adapter kit	S800-CT2125	1	pack
2CCS800900R0031	Various - intermediate plate	S800-IP9	1	piece
2CCS800900R0121	Various - labelling system	S800-ILS	1	piece
2CCS800900R0051	Various - padlock	S800-PLL	1	pack
2CCS800017R0001	Various - padlock for US	S800U-PLL	1	piece
2CCS800900R0562	Various - pole connector	S802-LINK125	1	pack
2CCS800900R0411	Various - pole connector	S802-LINK50	1	pack

Categories

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

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