PRODUCT-DETAILS

S302P-C20

Miniature Circuit Breaker - S300P - 2P - 20 A - C - (AC) 25 kA



General Information

Extended Product Type:	S302P-C20
Product ID:	2CDS382001R0204
EAN:	4016779078818
Catalog Description:	Miniature Circuit Breaker - S300P - 2P - 20 A - C - (AC) 25 kA
Long Description:	The MCBs S300P series assures protection in industrial installations against overload and short circuits. This product is manufactured according to international IEC and UL standards, for the markets where it is required.
Display Name:	S302P-C20

ABB EcoSolutions

ABB EcoSolutions Profile:	9AKK108472A4555
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 63.8 %
Improved Energy Efficiency for Customers:	Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line
Extended Product Lifetime:	Product Durability is Enhanced

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End Of Life Disassembling Instructions:	9AKK108467A9801
Environmental Product Declaration - EPD:	9AKK108467A7130

Technical

Dielectric Test Voltage:	50 / 60 Hz - 1 min 2 kV
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(125 V DC) 25 kA (415 V AC) 25 kA (440 V AC) 15 kA (400 V) 25 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(125 V DC) 12.5 kA
Power Supply Connection:	Arbitrary
Contact Position Indication:	Red ON / Green OFF
Electrical Endurance:	20000 AC cycle
Mechanical Endurance:	20000 cycle
Number of Protected Poles:	2
Number of Poles:	2P
Tightening Torque:	2.8 N·m
Screw Terminal Type:	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking:	I / O
Actuator Material:	Insulation Group II, Black, Sealable
Recommended Screw Driver:	Pozidriv 2
Accessories Available:	Yes
Connecting Capacity:	Busbar 10/10 mm² Flexible with Ferrule 0.75 ... 25 mm² Flexible 0.75 ... 25 mm² Flexible 0.75 ... 25 mm² Rigid 0.75 ... 35 mm² Stranded 0.75 ... 35 mm²
Installation Size:	acc. to DIN 43880 1
Wire Stripping Length:	14 mm
Terminal Type:	Screw Terminals
Actuator Type:	Toggle

Electrical

Tripping Characteristic:	C
Rated Operational Voltage:	acc. to IEC 60898-1 415 V AC acc. to IEC 60947-2 415 V AC
Operational Voltage:	Maximum (Incl. Tolerance) 457 V AC Maximum 457 V AC Minimum 12 V AC Minimum 12 V DC
Rated Insulation Voltage (U_i):	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand Voltage (U_{imp}):	6 kV
Input Voltage Type:	AC/DC

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Rated Current (I_n):	20 A
Rated Short-Circuit Capacity:	(AC) 25 kA (400 V) 25 kA
Rated Frequency (f):	50 / 60 Hz DC
Power Loss:	4.6 W at Rated Operating Conditions per Pole 2.3 W
Overvoltage Category:	IV

Design

Housing Material:	Insulation Group I, RAL 7035

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	125 V DC 480Y / 277 V AC 480Y/277 V AC
Interrupting Rating acc. to UL1077:	(125 V DC) 10 kA (480Y / 277 V AC) 10 kA
Connecting Capacity UL/CSA:	Busbar 18-8 AWG Conductor 18-4 AWG
Tightening Torque UL/CSA:	18 in·lb

Material Compliance

RoHS Declaration:	9AKK108472A0372
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date:	20260312
REACH Declaration:	9AKK107492A1906
REACH Information:	False - does not contain substances > 0.1 mass percentage
REACH Date:	20260312
Conflict Minerals Reporting Template (CMRT):	9AKK108468A3363
Toxic Substances Control Act - TSCA:	9AKK108468A8104
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 -55 ... +70 °C
Degree of Protection:	IP20 IP40 Enclosure with Cover IP40
Pollution Degree:	3

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Environmental Conditions:	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations:	20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz
Resistance to Shock acc. to IEC 60068-2-27:	25g 3 shocks 18 ms

Dimensions

Width in Number of Modular Spacings:	2
Product Net Width:	35 mm
Product Net Height:	88 mm
Product Net Depth / Length:	69 mm
Product Net Weight:	0.246 kg
Pole Net Weight:	0.124 kg
Built-In Depth (t_2):	69 mm

Engineering

EPLAN Data:	9AAF617138_EPLAN

Ordering

Package Level 1 Units:	box 5 piece
Package Level 1 Gross Weight:	1.27 kg
E-Number (Finland):	3212259
E-Number (Norway):	1641762
E-Number (Sweden):	2101107

Certificates and Declarations

CB Certificate:	2CDZ405000A1089 2CDZ405000A1093
CCA Certificate:	2CDZ405000A1090 2CDZ405000A1094
CCC Certificate:	2CDZ405000A1097 2CDZ405000A1098
CQC Certificate:	2CDZ405000A1097 2CDZ405000A1098
CSA Certificate:	2CDZ405000A1102
Declaration of Conformity - CE:	9AKK107991A3220
Declaration of Conformity - UKCA:	9AKK107992A8877
DNV GL Certificate:	2CDZ405000A1155
EAC Certificate:	2CDZ405000A1092 2CDZ405000A1096

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NF Certificate:	2CDZ405000A1144
RINA Certificate:	2CDZ405000A1194
UL Certificate:	2CDZ405000A1101
VDE Certificate:	2CDZ405000A1191 2CDZ405000A1195

Installation

Instructions and Manuals:	2CDS207104P0002
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
Grid Distance:	75 mm

Popular Downloads

Data Sheet, Technical Information:	9AKK107992A4964

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):	4897 >> Miniature circuit breakers
Object Classification Code:	F
Standards:	CSA 22.2 No. 235 IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
Certification Agency:	CSA IEC EN UL
Standardization Body:	EN IEC UL CSA

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact 1CO	S2C-H6R	1	piece
2CDS200970R0002	S2C-H10 Bottom-fitting auxiliary contact 1NO	S2C-H10	1	piece

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Identifier	Description	Type	Qty	Unit Of Measure
2CDS200936R0001	S2C-H11L Auxiliary Contact 1NO / 1NC, Left side mounting	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact 2NO	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L Auxiliary Contact 2NC, Left side mounting	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary contact 1NO/1NC	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary contact 2NO	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary contact 2NC	S2C-H6-02R	1	piece
2CDS200909R0001	S2C-A1 Shunt Trip, 12...110V	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 Shunt Trip, 110...415V	S2C-A2	1	piece
GHS2001901R0003	S2C-DH Rotary operating mechanism	S2C-DH	1	piece
2CSS200998R0001	S2C-BP Mechanical tripping device	S2C-BP	1	piece
2CSS200999R0001	S2C-EST Plug-in base	S2C-EST	1	piece
2CDS200918R0001	S2C-Nt Hand operated neutral	S2C-NT	1	piece
2CCA880100R0001	CMS-100PS Sensor	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Sensor	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Sensor	CMS-102PS	1	piece

Categories

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