PRODUCT-DETAILS

DS201 B20 A30

Residual Current Circuit Breaker with Overcurrent Protection DS201 - 1P+N - 30 mA - 20 A - B - Type A



General Information

Extended Product Type:	DS201 B20 A30
Product ID:	2CSR255180R1205
EAN:	8012542969815
Catalog Description:	Residual Current Circuit Breaker with Overcurrent Protection DS201 - 1P+N - 30 mA - 20 A - B - Type A
Long Description:	The DS201 series is a 1P+N RCBO in two-modules width for the protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.
Display Name:	DS201 B20 A30

ABB EcoSolutions

Carbon Footprint (Full Lifecycle):	40.476512 kg CO_2 eq
ABB EcoSolutions:	Yes

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EcoSolutions Profile:	9AKK108470A2163
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 75.20 %
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
Sustainable Material Content in Packaging (wt. %):	Recycled Cardboard - 98 % Recycled Paper - 00 % Chemically Recycled Polymer - 00 %
Extended Product Lifetime:	Product Durability
End Of Life Disassembling Instructions:	9AKK108469A2268
Environmental Product Declaration - EPD:	9AKK108468A5756

Technical

Type of Residual Current:	Type A
Test Voltage (Ut):	Minimum 170 V Maximum 264 V
Dielectric Test Voltage:	2 kV
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	10 kA
Rated Residual Breaking Capacity (IΔm):	EN 61009-1 6000 A IEC 61009-1 6000 A
Rated Service Short-Circuit Breaking Capacity (I_{cs}):	7.5 kA
Rated Service Short-Circuit Breaking Capacity, in % of Icu (I_{cs}):	6 kA
Power Supply Connection:	Arbitrary
Contact Position Indication:	Red ON / Green OFF
Energy Limiting Class:	3
Electrical Endurance:	10000 cycle
Mechanical Endurance:	20000 cycle
Number of Protected Poles:	1
Number of Poles:	1P+N
Number of Modular Spacings per DIN Rail:	2
Fault Indication:	Blue Flag on Toggle
Operating Characteristic:	Instantaneous
Position of Neutral Terminals:	Right
Tightening Torque:	2.8 N·m
Accessory Type:	Auxiliary contact, Signal contact / auxiliary contact, Shunt trip, Auxiliary contact for bottom fitting, Overvoltage release, Motor operating device
Actuator Type:	Toggle
Earthing Switch Type:	Undelayed
Housing Type:	Insulation group I - II, RAL 7035
Screw Terminal Type:	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Material:	Insulation Group II, Black, Sealable
Accessories Available:	Yes

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Number of Batteries:	0
Connecting Capacity:	Busbar 10 ... 10 mm² Stranded 0.75 ... 25 mm² Flexible with Ferrule 0.75 ... 16 mm² Flexible 0.75 ... 16 mm²
Rated Cross-Section:	1 - Solid-Core 0.75-25 mm² 4 - Multi-Wired 0.75-16 mm²
Wire Stripping Length:	12 mm
Terminal Type:	Screw Terminals

Electrical

Tripping Characteristic:	B
Rated Operational Voltage:	acc. to IEC 60898-1 240 V
Rated Insulation Voltage (U_i):	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand Voltage (U_{imp}):	4 kV
Input Voltage Type:	AC
Rated Current (I_n):	20 A
Rated Residual Current:	30 mA
Rated Short-Circuit Capacity:	6 kA
Rated Conditional Short-Circuit Current (I_{nc}):	10 kA
Rated Frequency (f):	50 / 60 Hz
Power Loss:	Average per Pole 2.8 W Phase Pole 3.8 W Neutral Pole 1.8 W Total 5.7 W
Overvoltage Category:	III

Material Compliance

RoHS Declaration:	9AKK106713A5588
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date:	20211115
REACH Declaration:	9AKK108467A9482
REACH Information:	True - contains substances > 0.1 mass percentage
REACH Date:	20240429
Conflict Minerals Reporting Template (CMRT):	9AKK108468A3363
SCIP:	aaec470a-80b2-496e-97d9-4dc8a918efd4 Italy
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B:	Business To Consumer

Environmental

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Ambient Air Temperature:	Operation -25 … 55 °C
Reference Ambient Air Temperature:	30 °C
Degree of Protection:	IP20 IP40
Pollution Degree:	2
Environmental Conditions:	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations:	20 Cycles with Load 0.8 In: 1g or 0.1mm 5...150...5 Hz
Resistance to Shock acc. to IEC 60068-2-27:	25g 2 shocks 13 ms
Environmental Information:	2CSC422002K2701

Dimensions

Width in Number of Modular Spacings:	2
Product Net Width:	35 mm
Product Net Height:	85 mm
Product Net Depth / Length:	69 mm
Product Net Weight:	200 g
Built-In Depth (t_2):	69 mm
Dimension Diagram:	9AKK107492A6185

Engineering

EPLAN Data:	9AAC554444_EPLAN

Ordering

Package Level 1 Units:	box 1 piece
Package Level 1 Gross Weight:	225 g
E-Number (Finland):	3211144
E-Number (Sweden):	2100384

Certificates and Declarations

ABS Certificate:	9AKK107991A2823
CB Certificate:	9AKK107492A6060
CCC Certificate:	9AKK107492A6067
Declaration of Conformity - CE:	9AKK106713A5588
DNV GL Certificate:	9AKK107680A3457 9AKK107680A3456
EAC Certificate:	9AKK107492A6071 9AKK107991A7755

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GOST Certificate:	9AKK107992A1640
KEMA Certificate:	9AKK107492A6076
ÖVE Certificate:	9AKK107492A6085
RMRS Certificate:	9AKK107680A3454 9AKK107680A3455
SEV Certificate:	9AKK107680A1558 9AKK107680A1560
VDE Certificate:	9AKK107492A6092

Installation

Instructions and Manuals:	9AKK107492A6006
Mounting Type:	DIN-Rail
Mounting Position:	Any

Popular Downloads

Data Sheet, Technical Information:	9AKK107492A6187

External Classifications and Standards

ETIM 9:	EC000905 - Earth leakage circuit breaker
ETIM 10:	EC000905 - Earth leakage circuit breaker
UNSPSC:	39121601
eClass:	V11.0 : 27142207
IDEA Granular Category Code (IGCC):	4875 >> Residual current circuit breaker (RCCB)
Object Classification Code:	F
Standards:	IEC/EN 61009-1, IEC/EN 61009-2-1

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
2CDS200912R0001	S2C-H6R Auxiliary Contact 1CO	S2C-H6R	1	piece
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	S2C-S/H6R	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
2CDS200970R0031	S2C-H01 Bottom-fitting auxiliary contact S2C-H01 Bottom-fitting auxiliary contact 1NC	S2C-H01	1	piece

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2CDS200970R0032	S2C-H10 Bottom-fitting auxiliary contact 1NO	S2C-H10	1	piece
2CSS200910R0005	S2C-OVP1 Overvoltage release	S2C-OVP1	1	piece
2CSS200933R0011	Shunt trip F2C-A	F2C-A1	1	piece
2CSS200933R0012	Shunt trip F2C-A	F2C-A2	1	piece
2CSS200993R0005	S2C-OVP2 Overvoltage release	S2C-OVP2	1	piece

Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > Residual Current Devices RCDs > Residual Current Circuit Breakers with Overcurrent Protection RCBO






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