

PRODUCT-DETAILS

DSN201E C20 A30

DSN201E C20 A30 Residual Current Circuit Breaker with Overcurrent Protection



General Information

Extended Product Type	DSN201E C20 A30
Product ID	2CDB352501R1204
EAN	4022903005223
Catalog Description	DSN201E C20 A30 Residual Current Circuit Breaker with Overcurrent Protection
Long Description	The DSN201E series is a 1P+N electronic RCBO in one-module width for the protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with sensitivity = 30 mA). The neutral is switched

Technical

Standards	IEC/EN 61009-1 IEC 61009-2-2 AS/NZS 61009.1
Tripping Characteristic	C
Type of Residual Current	A type
Rated Operational Voltage	acc. to IEC 60898-1 240 V
Rated Insulation Voltage (U _i)	acc. to IEC/EN 60664-1 500 V
Test Voltage (U _t)	160 ... 264 V
Rated Impulse Withstand Voltage (U _{imp})	4 kV
Dielectric Test Voltage	2.5 kV

Input Voltage Type	AC
Rated Current (I_n)	20 A
Rated Residual Current	30 mA
Rated Short-Circuit Capacity	6 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	6 kA
Rated Residual Breaking Capacity ($I_{\Delta m}$)	3 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	6 kA
Rated Service Short-Circuit Breaking Capacity, in % of I_{cu} (I_{cs})	6 kA
Maximum Surge Current	2.5 kA
Leakage Current Type	A
Frequency (f)	50/60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	3 W
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 Poles	1+N
Number of Protected Poles	1
Number of Modular Spacings per DIN Rail	1
Operating Characteristic	Instantaneous
Overvoltage Category	III
Position of Neutral Terminals	Left
Accessory Type	Auxiliary contact Signal contact
Actuator Type	Toggle - Insulation group II
Earthing Switch Type	Undelayed
Housing Type	Insulation group I
Mounting Type	DIN-Rail
Screw Terminal Type	Cage Terminal
Mounting Position	Vertical & Horizontal
Accessories Available	Yes
Number of Batteries	0
Connecting Capacity	Busbar 10 mm ² Rigid 1 ...25 mm ² Flexible 1 ...16 mm ²
Rated Cross-Section	1 - Solid-Core 1...25 mm ² 4 - Multi-Wired 1...16 mm ²
Wire Stripping Length	13 mm
Terminal Type	Screw Terminals

Environmental

Ambient Air Temperature	Operation -25 ... 55 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20
Pollution Degree	2
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations acc. to IEC 60068-2-6	0.15mm or 1.5g - 30 cycles at 0...80 Hz
Resistance to Shock acc. to IEC 60068-2-27	40g / 18 shocks / 5 ms
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Information	9AKK108468A2444
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Technical UL/CSA

Short-Circuit Current Rating (SCCR)	0.03 A
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Dimensions

Width in Number of Modular Spacings	1
Product Net Width	17.8 mm
Product Net Height	86 mm
Product Net Depth / Length	70 mm
Product Net Weight	0.113 kg
Built-In Depth (t ₂)	70 mm

Ordering

Minimum Order Quantity	1 piece
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.125 kg

Certificates and Declarations

Certification Agency	AS/NZS IEC EN
Declaration of Conformity - CE	9AKK108468A2444
Declaration of Conformity - UKCA	9AKK108468A2445
KEMA Certificate	9AKK107991A0853

Installation

Instructions and Manuals	9AKK107680A6346
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Popular Downloads

Data Sheet, Technical Information	9AKK108467A6853
Mechanical Drawings	9AKK107680A6343 9AKK107680A6344

Classifications

ETIM 8	EC000905 - Earth leakage circuit breaker
ETIM 9	EC000905 - Earth leakage circuit breaker
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	85363030
UNSPSC	39121614
eClass	V11.0 : 27142207
Object Classification Code	F

Categories

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

