PRODUCT-DETAILS

S203L-D50

S203L-D50 Miniature Circuit Breaker - 3P - D - 50 A



General Information

Extended Product Type	S203L-D50
Product ID	2CDS243701R0501
EAN	4016779629829
Catalog Description	S203L-D50 Miniature Circuit Breaker - 3P - D - 50 A
Long Description	S203L-D 50 MiniCircuitBreaker D-Char.,4,5kA,50A,3P

Technical

Standards	IEC/EN 60898-1 IEC/EN 60947-2
Tripping Characteristic	D
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60898-1 400 V acc. to IEC 60947-2 400 V AC
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC Minimum 12 V AC
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 440 V
Rated Impulse	4 kV

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Withstand Voltage (U_{imp})	at 2000 m 5 kV at Sea Level 6.2 kV
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Input Voltage Type	AC
Rated Current (I_n)	50 A
Rated Short-Circuit Capacity	(AC) 4.5 kA (DC) 4.5 kA (400 V AC) 4.5 kA (400 V) 4.5 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(230 V AC) 10 kA (400 V AC) 6 kA (230 V) 10 kA (400 V) 6 kA
Rated Conditional Short-Circuit Current (I_{nc})	(400 V) 6 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(230 V AC) 7.5 kA (400 V AC) 4.5 kA
Rated Frequency (f)	50 / 60 Hz
Power Loss	8.7 W at Rated Operating Conditions per Pole 2.9 W
Power Supply Connection	Arbitrary
Contact Position Indication	ON / OFF
Energy Limiting Class	3
Electrical Endurance	10000 AC cycle
Mechanical Endurance	20000 cycle
Number of Protected Poles	3
Number of Poles	3
Overvoltage Category	III
Tightening Torque	2.8 N·m
Actuator Type	Toggle
Mounting Type	DIN-Rail
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	I / O
Actuator Material	Insulation Group II, Black, Sealable
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 Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Busbar 10 / 10 mm² Flexible with Ferrule 0.75 ... 16 mm² Flexible 0.75 ... 16 mm² Rigid 0.75 ... 25 mm² Stranded 0.75 ... 25 mm²
Installation Size	acc. to DIN 43880 1
Wire Stripping Length	12.5 mm
Terminal Type	Screw Terminals

Material Compliance

RoHS Information	2CDK400003K0203
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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RoHS Date	20161001
REACH Declaration	9AKK108468A9644
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20231212
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20 IP40 Enclosure with Cover IP40
Pollution Degree	3
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 2 shocks 13 ms
Environmental Information	2CDK400030D0201

Technical UL/CSA

Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG

Dimensions

Width in Number of Modular Spacings	3.0
Product Net Width	52.5 mm
Product Net Height	85 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.375 kg
Pole Net Weight	0.125 kg
Built-In Depth (t_2)	69 mm
Dimension Diagram	2CDC022007F0010

Ordering

Package Level 1 Units	carton 1 piece
Package Level 1 Gross Weight	0.4 kg

Certificates and Declarations

Declaration of Conformity - CE	2CDK403001D0607

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I^2t Characteristic	9AKK107992A5103
Certification Agency	EN IEC

Installation

Instructions and Manuals	2CDS207104P0002

Popular Downloads

Data Sheet, Technical Information	9AKK107046A0423
I^2t Characteristic	9AKK107992A5103

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	8536 20 10
UNSPSC	39121603
eClass	V11.0 : 27141901
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breakers
Object Classification Code	F

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs

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