PRODUCT-DETAILS

SU203M-Z20

SU203M-Z20 Miniature Circuit Breaker - 3P - Z - 20 A



General Information

Extended Product Type	SU203M-Z20
Product ID	2CDS273337R0488
EAN	4016779933445
Catalog Description	SU203M-Z20 Miniature Circuit Breaker - 3P - Z - 20 A
Long Description	SU203M-Z20 Miniature Circuit Breaker Z-Char., 10kA, 20A, 3P UL489

Technical

Standards	CSA 22.2 No. 5 IEC/EN 60947-2 UL 489
Tripping Characteristic	Z
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
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U_{imp}	4 kV at 2000 m 5 kV

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)	at Sea Level 6.2 kV
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Input Voltage Type	AC/DC
Rated Current (I_n)	20 A
Rated Short-Circuit Capacity	(400 V AC) 11.2 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(400 V AC) 15 kA (400 V) 15 kA
Rated Conditional Short-Circuit Current (I_{nc})	(400 V) 15 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(400 V AC) 11.2 kA
Rated Frequency (f)	50 / 60 Hz DC
Power Loss	7.5 W at Rated Operating Conditions per Pole 2.5 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	20000 AC cycle
Mechanical Endurance	20000 cycle
Number of Protected Poles	3
Number of Poles	3
Overvoltage Category	III
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
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 ... 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 3
Terminal Type	Double Clamp

Material Compliance

RoHS Information	2CDK400595D2705
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20200514
REACH Declaration	9AKK108468A9644
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20231212
Conflict Minerals	9AKK108468A3363

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Reporting Template (CMRT)	
SCIP	89318623-ff2d-4ce0-aefe-5d16fac11138 Germany (DE)

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	9AKK107680A9140

Technical UL/CSA

Maximum Operating Voltage UL/CSA	480Y / 277 V AC
Interrupting Rating acc. to UL489	(240 V AC) 10 kA (480Y / 277 V AC) 10 kA
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	111 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

Ordering

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

Certificates and Declarations

Certification Agency	CSA EN IEC UL

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Declaration of Conformity - CE	2CDK400595D2705
Declaration of Conformity - UKCA	9AKK108467A5201

Installation

Instructions and Manuals	2CDC002177D0202

Popular Downloads

Data Sheet, Technical Information	2CDC002177D0202

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)	4899 >> Miniature circuit breaker (MCB) screw-in model

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CCA880100R0001	CMS-100PS Sensor	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Sensor	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Sensor	CMS-102PS	1	piece
2CDS200914R0001	S2C-H6RU Auxiliary Contact	S2C-H6RU	1	piece
2CDS200924R0001	S2C-S6RU Signal / Auxiliary Contact	S2C-S6RU	1	piece
2CDS200908R0001	S2C-A1U Shunt Trip	S2C-A1U	1	piece
2CDS200908R0002	S2C-A2U Shunt Trip	S2C-A2U	1	piece

Categories

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

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