



PRODUCT-DETAILS

XT1N 160 TMD 50-500 4p F F

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General Information	
Extended Product Type	XT1N 160 TMD 50-500 4p F F
Product ID	1SDA067421R1
EAN	8015644013158
Catalog Description	XT1N 160 TMD 50-500 4p F F
Long Description	C.BREAKER TMAX XT1N 160 FIXED FOUR-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 50-500 A

ABB EcoSolutions	
ABB EcoSolutions	Yes
ABB Site Meeting Group Waste To Landfill Target	UL 2799 Zero Waste To Landfill Validation available
End Of Life Disassembling Instructions	9AKK108468A2347
Environmental Product Declaration - EPD	9AKK108468A1890 9AKK108468A7793
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 55.9 %

Material Compliance	
REACH Declaration	9AKK108466A1425
RoHS Information	9AKK108466A1424
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
Toxic Substances Control Act - TSCA	9AKK108467A8326
SCIP	bc5d6b25-1750-4cd6-b48b-84ea24159c6e Italy
Simplified SCIP	91118788-ee18-4d78-be00-961e5290bc9e Germany d65dd2d9-6308-4d86-b0e2-bab827717846 Czech Republic 77697931-db31-4e0c-bc9c-25fa71834994 Poland 8d2787cf-521c-4139-b30a-377d1ef10c6a Germany 1f0f32ab-0f81-446b-bed5-766ceff550e7 Denmark 9f486b83-2ee7-4baf-9e13-226f49760124 Germany 435dcc50-318c-45f3-b68d-3c016f436814 Croatia 49154b02-e348-440a-90e5-798be1c433be Sweden 9d6de0e2-6c33-40b3-827e-e044209a69bb Germany a578d5a2-5bd8-4848-a8bf-407d6e194dd3 Germany 3f3cbfa1-bdc9-4026-8097-d06c3c5cc718 Poland 294ca128-edc5-44c9-bfb1-3d605c127b7a Norway a8ca0675-934d-4a22-8305-7b52944d5ecd Finland 7c05c9ba-5df1-4dae-b4ae-6ea2ed5421b4 Netherlands a8ca0675-934d-4a22-8305-7b52944d5ecd Finland 7c05c9ba-5df1-4dae-b4ae-6ea2ed5421b4 Netherlands 8d2787cf-521c-4139-b30a-377d1ef10c6a Germany 1f0f32ab-0f81-446b-bed5-766ceff550e7 Denmark 9f486b83-2ee7-4baf-9e13-226f49760124 Germany 435dcc50-318c-45f3-b68d-3c016f436814 Croatia d65dd2d9-6308-4d86-b0e2-bab827717846 Czech Republic 77697931-db31-4e0c-bc9c-25fa71834994 Poland 99d289b0-31bf-4f24-bc2a-977b892eaf49 Netherlands f57ccdc-d-280a-4758-a767-b6e7c672c365 Netherlands c8184068-3526-44a5-a9f8-c334256afe1e Estonia ee9a92b4-81a0-4ac5-b2c8-402606308704 Greece 4e5397bc-6da8-4ea2-94cd-89731343c6af Portugal ddc16888-71d6-4749-bea5-43cd2417f134 Bulgaria 19fbaf55-c3b9-44ba-baf3-f5090b796660 Sweden 1c095d94-e6d4-4f07-a475-66eacdfb1beb Poland d494512a-f80c-478b-8bba-f8074343eecc France 083e6b41-1605-4fcd-9163-90ad051f4e01 France fc45a372-1f8f-41f2-a023-25a86b48b529 Netherlands b9205d27-3b29-4acf-9875-290404a1db08 Spain 3f3cbfa1-bdc9-4026-8097-d06c3c5cc718 Poland 294ca128-edc5-44c9-bfb1-3d605c127b7a Norway 99d289b0-31bf-4f24-bc2a-977b892eaf49 Netherlands f57ccdc-d-280a-4758-a767-b6e7c672c365 Netherlands c8184068-3526-44a5-a9f8-c334256afe1e Estonia ee9a92b4-81a0-4ac5-b2c8-402606308704 Greece 4e5397bc-6da8-4ea2-94cd-89731343c6af Portugal 49154b02-e348-440a-90e5-798be1c433be Sweden 9d6de0e2-6c33-40b3-827e-e044209a69bb Germany a578d5a2-5bd8-4848-a8bf-407d6e194dd3 Germany 083e6b41-1605-4fcd-9163-90ad051f4e01 France fc45a372-1f8f-41f2-a023-25a86b48b529 Netherlands b9205d27-3b29-4acf-9875-290404a1db08 Spain 8433faa5-eea1-402d-8579-ab0b9c70704e Netherlands ddc16888-71d6-4749-bea5-43cd2417f134 Bulgaria 19fbaf55-c3b9-44ba-baf3-f5090b796660 Sweden 8433faa5-eea1-402d-8579-ab0b9c70704e Netherlands 1c095d94-e6d4-4f07-a475-66eacdfb1beb Poland d494512a-f80c-478b-8bba-f8074343eecc France

Environmental

Environmental Information	9AKK108467A6707
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Ordering

Order Code US and Canada	XT1NE4050AFF000XXX
E-Number (Finland)	3640541
E-Number (Norway)	4379234
E-Number (Sweden)	3182419
EAN	8015644013158
Minimum Order Quantity	1 piece
Customs Tariff Number	85362090

Dimensions

Product Net Width	101.6 mm
Product Net Height	130 mm
Product Net Depth / Length	70 mm
Product Net Weight	1.4 kg

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	128 mm
Package Level 1 Height	135 mm
Package Level 1 Depth / Length	143 mm
Package Level 1 Gross Weight	1.4 kg
Package Level 1 EAN	8015644013158

Additional Information

Circuit Breaker Type to be Associated	Power Distribution
Product Main Type	SACE Tmax XT
Product Name	Moulded Case Circuit Breaker
Product Type	Automatic Circuit Breaker
Version	F
CAD Dimensional Drawing	1SDH001295R0080

Technical

Connecting Capacity Main Circuit	Busbar 45.5 ... 80 mm ²
Current Type	AC/DC
Electrical Durability	120 cycles per hour 8000 cycle
Mechanical Durability	240 cycles per hour

	25000 cycle
Number of Poles	4P
Opening Time	CB with SOR 30 ms CB with UVR 30 ms
Order Multiple	1 piece
Power Loss	at Rated Operating Conditions per Pole 3.7 W
Rated Current (I_n)	50 A
Rated Frequency (f)	50 / 60 Hz
Rated Impulse Withstand Voltage (U_{imp})	8 kV
Rated Instantaneous Short-Circuit Current Setting (I_i)	500 A
Rated Insulation Voltage (U_i)	800 V
Rated Operational Voltage	690 V AC 500 V DC
Rated Service Short- Circuit Breaking Capacity (I_{cs})	(220 V AC) 50 kA (230 V AC) 50 kA (240 V AC) 50 kA (380 V AC) 36 kA (415 V AC) 36 kA (440 V AC) 18 kA (500 V AC) 15 kA (525 V AC) 11 kA (690 V AC) 5 kA (250 V DC) 2 Poles in Series 36 kA (500 V DC) 3 Poles in Series 36 kA
Rated Ultimate Short- Circuit Breaking Capacity (I_{cu})	(220 V AC) 65 kA (230 V AC) 65 kA (240 V AC) 65 kA (380 V AC) 36 kA (415 V AC) 36 kA (440 V AC) 36 kA (500 V AC) 30 kA (525 V AC) 22 kA (690 V AC) 6 kA (250 V DC) 2 Poles in Series 36 kA (500 V DC) 3 Poles in Series 36 kA
Rated Uninterrupted Current (I_u)	160 A
Rated Voltage (U_r)	690 V
Recommended Screw Driver	Main Circuit M6
Release	TMD
Release Type	TM
Setting Range	35...50 A
Short-Circuit Performance Level	N
Standards	IEC60947-2
Sub-type	XT1
Terminal Connection Type	Front
Terminal Type	Bolt
Tightening Torque	6 N·m

Certificates and Declarations

ATEX Certificate	No certification needed
Data Sheet, Technical	1SDC210100D0206

Information	1SDC210099D0206
Declaration of Conformity - CE	9AKK106713A5532
GL Certificate	1SDL000163R0103
LR Certificate	1SDL000163R0100
UL Certificate	No certification needed
VDE Certificate	No certification needed
Dimension Diagram	1SDH000719R0100
Mechanical Drawings	1SDH000719R0100
Wiring Diagram	1SDM000068R0001
Instructions and Manuals	1SDH000719R0001

External Classifications and Standards

ETIM 8	EC000228 - Power circuit-breaker for trafo/generator/installation protection
ETIM 9	EC000228 - Power circuit-breaker for trafo/generator/installation protection
Object Classification Code	Q
UNSPSC	39120000
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
eClass	V11.1 : 27370409

Categories

Low Voltage Products and Systems → Circuit Breakers → Moulded Case Circuit Breakers → Tmax XT

