



PRODUCT-DETAILS

# XT1N 160 TMD 32-450 3p F F

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General Information	
Extended Product Type	XT1N 160 TMD 32-450 3p F F
Product ID	1SDA067411R1
EAN	8015644013059
Catalog Description	XT1N 160 TMD 32-450 3p F F
Long Description	C.BREAKER TMAX XT1N 160 FIXED THREE-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 32-450 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	b8ba1754-58ff-4887-8f7b-ac517add86e1 Italy
Simplified SCIP	45f47fd6-9223-46fa-a768-bcd646930445 Bulgaria 826467e8-cc7a-454f-9954-b24a70a33722 Poland 64d2a653-cc56-47a4-8907-40c4975df2c5 France 0c9508b2-5f63-4738-9f37-95ee249dd923 Croatia bfd52cf6-137a-4f1c-baa4-198c7ddd4e77 Poland a8ce4899-c258-4bc9-aac4-7af7a288685d Denmark 7525be68-6981-41b5-91d3-5fed25e2a835 Germany c10aa335-ed19-44b1-b311-abe8c0213e31 Belgium 5b53a997-ff88-4eb7-afb6-07ddef9a2176 Germany 78a1611c-b08c-4b82-a760-a9bc7da23dfb Norway cbe9d242-d2db-4e53-b93d-35a5d1c6bb74 Finland 4e709cd3-5143-4be6-a525-7d85629d9946 Czech Republic cdbdc825-e361-4240-9349-5061d288185e Poland c514384a-039c-426f-a521-b1eac9b56b6e Netherlands b9688eb6-71ae-4c47-92ee-dc1425ce896b Greece 701d79bb-51d3-4b42-aafd-33bade3eabd2 Portugal 1417ae19-1649-44f6-9231-412343027262 Hungary c9f14d1c-7394-4cab-b753-be55508ca065 Estonia 70b057a8-566a-41a8-ad52-08518207790a Hungary 8e4aab66-7fa7-422e-9cc3-8ab43447bab1 France f08d0540-cdf9-4632-802e-19ce412839a5 Spain fab47967-e60a-4ffe-ae3c-f3174b9c57d0 Germany f0447bee-d0c0-469b-9fd1-36c1a459b32b Germany 6b50316f-e96a-457c-aa45-af0a945b8d9d Belgium f85f968d-05e4-4d0f-afa2-a32373a91645 Sweden 999f1b32-9c39-4e8c-8d78-2eb9c626385c Sweden 96e93a98-4c84-47e2-a83c-afd5fe9a555b Germany

**Environmental**

Environmental Information	9AKK108467A6707
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**Ordering**

Order Code US and Canada	XT1NE3032AFF000XXX
E-Number (Finland)	3640522
E-Number (Norway)	4379203
EAN	8015644013059
Minimum Order Quantity	1 piece
Customs Tariff Number	85362090

**Dimensions**

Product Net Width	76.2 mm
Product Net Height	130 mm
Product Net Depth /	70 mm

Length

Product Net Weight	1.1 kg
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**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	1.134 kg
Package Level 1 EAN	8015644013059

**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	1SDH001295R0008

**Technical**

Connecting Capacity Main Circuit	Busbar 45.5 ... 80 mm <sup>2</sup>
Current Type	AC/DC
Electrical Durability	120 cycles per hour 8000 cycle
Mechanical Durability	240 cycles per hour 25000 cycle
Number of Poles	3P
Opening Time	CB with SOR 30 ms CB with UVR 30 ms
Order Multiple	1 piece
Power Loss	at Rated Operating Conditions per Pole 2.1 W
Rated Current (I <sub>n</sub> )	32 A
Rated Frequency (f)	50 / 60 Hz
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	8 kV
Rated Instantaneous Short-Circuit Current Setting (I <sub>i</sub> )	450 A
Rated Insulation Voltage (U <sub>i</sub> )	800 V
Rated Operational Voltage	690 V AC 500 V DC
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )	(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	22.4...32 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 Information	1SDC210100D0206 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 9	EC000228 - Power circuit-breaker for trafo/generator/installation protection
ETIM 10	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

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## Categories

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

