



PRODUCT-DETAILS

XT1N 160 TMD 50-500 3p F F

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General Information	
Extended Product Type	XT1N 160 TMD 50-500 3p F F
Product ID	1SDA067413R1
EAN	8015644013073
Catalog Description	XT1N 160 TMD 50-500 3p F F
Long Description	C.BREAKER TMAX XT1N 160 FIXED THREE-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
Extended Product Lifetime	Product Modularity

Recyclability Rate of the
Product acc. to EN45555

Design for Closing Resource Loops - Standard EN45555 - 55.9 %

Material Compliance

REACH Declaration	9AKK108466A1425
RoHS Declaration	9AKK108466A1424
RoHS Information	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	7a2dec22-67b5-495b-88cb-9f1538fd225c Italy
Simplified SCIP	58d2923b-496d-41bd-9e61-f6c81446b497 Sweden 06563ff2-6923-4f89-ae6a-af40bd7b100e Germany 6b33574e-07ea-4a4f-b325-dbf0b141cbbb Portugal 0dac9e7-bcb0-49d2-83e4-c274a3cd6484 Belgium e6e5ead1-8fd1-42ac-9758-1975c2072435 Finland 63d72336-877f-4309-aa94-a36d5fe8a4d8 Norway bb3dc903-0b99-4ecf-9621-25065a15ab08 Poland 13d7bb6e-ba7f-48ac-880c-a1c0e8f59a5a Germany 1ed49cd6-a97a-4972-a5cf-1cc1084e398c Croatia 5a350005-7029-4f9e-a29a-d0161976bc16 Hungary f267cc19-b346-4e13-b232-d20110954f07 Netherlands d8428f71-2a56-4d6f-afcd-762fe5825508 Sweden 2703dd07-10db-49f6-a672-7e4184d62091 Estonia 82587c54-64ac-483e-be3d-e5f3e9c51828 Greece 55b25b43-4bc0-41c4-9db8-611461f8d307 Germany e3b996b1-52e0-4d21-8008-6ccee296245e Czech Republic 92c79e5e-d2a6-459d-950e-5405b91773f4 Poland 5c19215f-b1e0-409b-ac49-ab1971e32e0f Denmark 96108660-299c-4a12-8ad0-b9ab3748288c Germany f6512b52-ceb9-4079-9182-1c4e3fde2b8e France d0189c40-bc93-49df-af70-9128353f0d9d Poland 60d2c41e-bd9b-48b5-966e-7dbc2397261b Spain fb42f23b-a2e9-4322-8216-9dd6c30e3f6a Hungary fcfed8fc-6a55-4c96-82c9-d92eb8e5d055 Belgium 9e64f215-2fb3-414f-a21c-fdf604ab643c France 6935e5d5-b720-4151-948f-88e4ad3a1486 Bulgaria 2bbc7bb4-bb02-407a-a905-38db9ccb7d78 Germany

Environmental

Environmental Information	9AKK108467A6707
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Ordering

Order Code US and Canada	XT1NE3050AFF000XXX
E-Number (Finland)	3640529
E-Number (Norway)	4379205
E-Number (Sweden)	3182432
EAN	8015644013073
Minimum Order Quantity	1 piece
Customs Tariff Number	85362090

Dimensions

Product Net Width	76.2 mm
Product Net Height	130 mm
Product Net Depth / Length	70 mm
Product Net Weight	1.1 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	1.134 kg
Package Level 1 EAN	8015644013073

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 ²
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 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	(220 V AC) 50 kA (230 V AC) 50 kA

Capacity (I_{cs})	(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 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

Categories

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

