



PRODUCT-DETAILS

XT1B 160 TMD 50-500 3p F F

XT1B 160 TMD 50-500 3p F F



| General Information | |
|------------------------|---|
| Extended Product Type: | XT1B 160 TMD 50-500 3p F F |
| Product ID: | 1SDA066804R1 |
| EAN: | 8015644007119 |
| Catalog Description: | XT1B 160 TMD 50-500 3p F F |
| Long Description: | C.BREAKER TMAX XT1B 160 FIXED THREE-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 50-500 A |
| Display Name: | XT1B 160 TMD 50-500 3p F F |

| 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: | a10a99fa-25ac-433d-b62d-7689b50c5c6c Italy |
| Simplified SCIP: | 41cd25de-2393-4a57-97ea-cc906e39537c Germany 69cd6212-a899-4286-a772-8f474dc6c2bb Poland 37f17624-f471-4fd3-9b01-4c3625894ed3 Norway 4a34c8c8-9faf-4d2f-a59b-f51d5cdd4e8d Finland 5537a32c-26dc-4c9d-bc95-cb9905d66cfc Netherlands ef53c3b5-bc52-49fb-b855-7a8f21515267 Germany 56d03ad1-bd96-4376-9736-79e2ef64f4ab Denmark b3206c37-260c-4ebf-b240-4996b994f65d Germany ddb77a11-e6f5-4b70-bf76-a947793ddf48 Croatia 2c66013a-028e-4ca1-ac7d-2a830f47a45b Czechia 6dcf4af9-a40a-4f40-9d60-663b40bbfdc5 Poland 614bc1e9-9182-4efb-aa78-e6e9372fd979 Netherlands e9e72111-5dc6-449c-afad-bfb9bf049e48 Netherlands b9ea0014-b614-4eed-a49a-4a83d350ab8b Estonia f45570f0-233c-43c3-9f60-758b79f8fb85 Greece 2d3090e5-4296-4969-815a-fc359c86aeef Portugal ef329402-0bc6-458f-adc4-ca0f59af1e1c Bulgaria 025d7c1b-8c66-4efe-8e49-75d8efc43eba Sweden 5be09893-83ce-4487-b2ec-d9a313525d19 Poland fcf9e57-aec8-4b59-a24d-f90af6d29625 France 338fd03f-9159-443a-9b5a-4a9e4e3be02e Sweden a0316fa6-51b1-46f4-ae1e-139caf62298e Germany 149a8272-3a2b-4d5c-8608-5789a28b417d Germany c4ea13ca-23b7-43e3-afbb-04d28a093f11 France 3e5bb53d-fed4-a12-a764-6f9cf645e4c7 Netherlands 513eef80-bdee-472a-815e-31c738e5c4da Spain bff7649f-dcc0-4167-b394-414dac45600a Netherlands |

Environmental

| | |
|-----------------------------------|-----------------|
| Environmental Information: | 9AKK108467A6707 |
|-----------------------------------|-----------------|

Ordering

| | |
|----------------------------------|--------------------|
| Order Code US and Canada: | XT1BE3050AFF000XXX |
| E-Number (Finland): | 3640498 |
| E-Number (Norway): | 4309605 |
| EAN: | 8015644007119 |
| 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: | 8015644007119 |

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 500 A

Setting (I_i):

| | |
|---|--|
| 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) 25 kA (230 V AC) 25 kA (240 V AC) 25 kA (380 V AC) 18 kA (415 V AC) 18 kA (440 V AC) 11.25 kA (500 V AC) 8 kA (525 V AC) 6 kA (690 V AC) 3 kA (250 V DC) 2 Poles in Series 18 kA (500 V DC) 3 Poles in Series 18 kA |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}): | (220 V AC) 25 kA (230 V AC) 25 kA (240 V AC) 25 kA (380 V AC) 18 kA (415 V AC) 18 kA (440 V AC) 15 kA (500 V AC) 8 kA (525 V AC) 6 kA (690 V AC) 3 kA (250 V DC) 2 Poles in Series 18 kA (500 V DC) 3 Poles in Series 18 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: | B |
| 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

WEEE Category: 5. Small Equipment (No External Dimension More Than 50 cm)

eClass: V11.1 : 27370409

Accessories

| Identifier | Description | Type | Qty | Unit Of Measure |
|--------------|--|--|-----|-----------------|
| 1SDA066305R1 | ADP MONT. FIXED TERM. PF XT1 3p | xADP MONT. FIXED TERM. PF XT1 3p | x1 | piece |
| 1SDA066865R1 | KIT EF XT1 3pcs | KIT EF XT1 3pcs | 1 | piece |
| 1SDA066867R1 | KIT EF XT1 6pcs | KIT EF XT1 6pcs | 1 | piece |
| 1SDA066260R1 | KIT EF FP XT1 3pcs | KIT EF FP XT1 3pcs | 1 | piece |
| 1SDA066889R1 | KIT ES XT1 3pcs | KIT ES XT1 3pcs | 1 | piece |
| 1SDA066891R1 | KIT ES XT1 6pcs | KIT ES XT1 6pcs | 1 | piece |
| 1SDA066957R1 | KIT FB XT1 3pcs | KIT FB XT1 3pcs | 1 | piece |
| 1SDA066959R1 | KIT FB XT1 6pcs | KIT FB XT1 6pcs | 1 | piece |
| 1SDA066905R1 | KIT FC Cu XT1 3pcs | KIT FC Cu XT1 3pcs | 1 | piece |
| 1SDA066907R1 | KIT FC Cu XT1 6pcs | KIT FC Cu XT1 6pcs | 1 | piece |
| 1SDA067151R1 | KIT FC CuAl 1x1,5...70mm2 XT1 3pcs | KIT FC CuAl 1x1,5...70mm2 XT1 3pcs | 1 | piece |
| 1SDA067153R1 | KIT FC CuAl 1x1,5...70mm2 XT1 6pcs | KIT FC CuAl 1x1,5...70mm2 XT1 6pcs | 1 | piece |
| 1SDA067155R1 | KIT FC CuAl 1x35...95mm2 XT1 3pcs | KIT FC CuAl 1x35...95mm2 XT1 3pcs | 1 | piece |
| 1SDA067157R1 | KIT FC CuAl 1x35...95mm2 XT1 6pcs | KIT FC CuAl 1x35...95mm2 XT1 6pcs | 1 | piece |
| 1SDA067159R1 | KIT FC CuAl 1x120...240mm2 XT1 3pcs +ADP | KIT FC CuAl 1x120...240mm2 XT1 3pcs +ADP | 1 | piece |
| 1SDA067161R1 | KIT FC CuAl 1x120...240mm2 XT1 6pcs +ADP | KIT FC CuAl 1x120...240mm2 XT1 6pcs +ADP | 1 | piece |
| 1SDA066921R1 | KIT MC CuAl 6x2.5...35mm2 XT1 3pcs | KIT MC CuAl 6x2.5...35mm2 XT1 3pcs | 1 | piece |
| 1SDA066923R1 | KIT MC CuAl 6x2.5...35mm2 XT1 6pcs | KIT MC CuAl 6x2.5...35mm2 XT1 6pcs | 1 | piece |
| 1SDA066937R1 | KIT R XT1 3pcs | KIT R XT1 3pcs | 1 | piece |
| 1SDA066939R1 | KIT R XT1 6pcs | KIT R XT1 6pcs | 1 | piece |
| 1SDA066664R1 | HTC XT1 3p TERMINAL COVERS HIGH 2pcs | HTC XT1 3p TERMINAL COVERS HIGH 2pcs | 1 | piece |

| | | | | |
|--------------|--|--|---|-------|
| 1SDA066655R1 | LTC XT1 3p TERMINAL COVERS LOW 2pcs | LTC XT1 3p TERMINAL COVERS LOW 2pcs | 1 | piece |
| 1SDA068954R1 | PB 90mm FP 6pcs XT1..XT4 4p KIT DI.PH.RE | PB 90mm FP 6pcs XT1..XT4 4p KIT DI.PH.RE | 1 | piece |
| 1SDA066652R1 | KIT DIN50022 XT1 3p PLATE DIN | KIT DIN50022 XT1 3p PLATE DIN | 1 | piece |
| 1SDA066268R1 | KIT R FP XT1 3pcs | KIT R FP XT1 3pcs | 1 | piece |
| 1SDA067122R1 | RC Inst HV 85...690Vac XT1 3p F | RC Inst HV 85...690Vac XT1 3p F | 1 | piece |
| 1SDA067123R1 | RC Sel HV 85...690Vac XT1 3p F | RC Sel HV 85...690Vac XT1 1 3p F | | piece |

Categories

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

