



PRODUCT-DETAILS

XT1B 160 TMD 50-500 3p F F

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| 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 |

| ABB EcoSolutions |     |
|------------------|-----|
| ABB EcoSolutions | Yes |

| Circular Value                                |                                                               |
|-----------------------------------------------|---------------------------------------------------------------|
| Circular Design Principles Recyclability Rate | Design for Closing Resource Loops - Standard EN45555 - 55.9 % |
| Conflict Minerals Reporting Template          | 9AKK108467A5658                                               |

(CMRT)

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| End of Life Instructions            | 9AKK108468A2347                                     |
| Group Waste to Landfill Target      | UL 2799 Zero Waste To Landfill Validation available |
| Toxic Substances Control Act - TSCA | 9AKK108467A8326                                     |

Eco Transparency

|                                         |                                    |
|-----------------------------------------|------------------------------------|
| Environmental Product Declaration - EPD | 9AKK108468A1890<br>9AKK108468A7793 |
|-----------------------------------------|------------------------------------|

Environmental

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Information | 9AKK108467A6707                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| REACH Declaration         | 9AKK108466A1425                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RoHS Information          | 9AKK108466A1424                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RoHS Status               | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SCIP                      | a10a99fa-25ac-433d-b62d-7689b50c5c6c Italy (IT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Simplified SCIP           | 41cd25de-2393-4a57-97ea-cc906e39537c Germany (DE)<br>69cd6212-a899-4286-a772-8f474dc6c2bb Poland (PL)<br>37f17624-f471-4fd3-9b01-4c3625894ed3 Norway (NO)<br>4a34c8c8-9faf-4d2f-a59b-f51d5cdd4e8d Finland (FI)<br>5537a32c-26dc-4c9d-bc95-cb9905d66cfc Netherlands (NL)<br>ef53c3b5-bc52-49fb-b855-7a8f21515267 Germany (DE)<br>56d03ad1-bd96-4376-9736-79e2ef64f4ab Denmark (DK)<br>b3206c37-260c-4ebf-b240-4996b994f65d Germany (DE)<br>ddb77a11-e6f5-4b70-bf76-a947793dddf48 Croatia (HR)<br>2c66013a-028e-4ca1-ac7d-2a830f47a45b Czech Republic (CZ)<br>6dcf4af9-a40a-4f40-9d60-663b40bbfdbc5 Poland (PL)<br>614bc1e9-9182-4efb-aa78-e6e9372fd979 Netherlands (NL)<br>e9e72111-5dc6-449c-afad-bfb9bf049e48 Netherlands (NL)<br>b9ea0014-b614-4eed-a49a-4a83d350ab8b Estonia (EE)<br>f45570f0-233c-43c3-9f60-758b79f8fb85 Greece (GR)<br>2d3090e5-4296-4969-815a-fc359c86aeef Portugal (PT)<br>ef329402-0bc6-458f-adc4-ca0f59af1e1c Bulgaria (BG)<br>025d7c1b-8c66-4efe-8e49-75d8efc43eba Sweden (SE)<br>5be09893-83ce-4487-b2ec-d9a313525d19 Poland (PL)<br>fcfc9e57-aec8-4b59-a24d-f90af6d29625 France (FR)<br>338fd03f-9159-443a-9b5a-4a9e4e3be02e Sweden (SE)<br>a0316fa6-51b1-46f4-ae1e-139caf62298e Germany (DE)<br>149a8272-3a2b-4d5c-8608-5789a28b417d Germany (DE)<br>c4ea13ca-23b7-43e3-afbb-04d28a093f11 France (FR)<br>3e5bb53d-feda-4a12-a764-6f9cf645e4c7 Netherlands (NL)<br>513eef80-bdee-472a-815e-31c738e5c4da Spain (ES)<br>bff7649f-dcc0-4167-b394-414dac45600a Netherlands (NL) |

Ordering

|                          |                    |
|--------------------------|--------------------|
| Order Code US and Canada | XT1BE3050AFF000XXX |
| E-Number (Finland)       | 3640498            |
| 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                                                                                                                                                               |
| Connecting Capacity Main Circuit                                    | Busbar 45.5 ... 80 mm <sup>2</sup>                                                                                                                                               |
| Current Type                                                        | AC/DC                                                                                                                                                                            |
| Electrical Durability                                               | 120 cycles per hour<br>8000 cycle                                                                                                                                                |
| Mechanical Durability                                               | 240 cycles per hour<br>25000 cycle                                                                                                                                               |
| Number of Poles                                                     | 3                                                                                                                                                                                |
| Opening Time                                                        | CB with SOR 15 ms<br>CB with UVR 15 ms                                                                                                                                           |
| Order Multiple                                                      | 1 piece                                                                                                                                                                          |
| Power Loss                                                          | at Rated Operating Conditions per Pole 3.7 W                                                                                                                                     |
| Product Main Type                                                   | SACE Tmax XT                                                                                                                                                                     |
| Product Name                                                        | Moulded Case Circuit Breaker                                                                                                                                                     |
| Product Type                                                        | Automatic Circuit Breaker                                                                                                                                                        |
| Rated Current (I <sub>n</sub> )                                     | 50 A                                                                                                                                                                             |
| Rated Frequency (f)                                                 | 50 / 60 Hz                                                                                                                                                                       |
| Rated Voltage (U <sub>r</sub> )                                     | 690 V                                                                                                                                                                            |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )                 | 8 kV                                                                                                                                                                             |
| Rated Instantaneous Short-Circuit Current Setting (I <sub>i</sub> ) | 500 A                                                                                                                                                                            |
| Rated Insulation Voltage (U <sub>i</sub> )                          | 800 V                                                                                                                                                                            |
| Rated Operational Voltage                                           | 690 V AC<br>500 V DC                                                                                                                                                             |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )    | (220 V AC) 25 kA<br>(230 V AC) 25 kA<br>(240 V AC) 25 kA<br>(380 V AC) 18 kA<br>(415 V AC) 18 kA<br>(440 V AC) 11.25 kA<br>(500 V AC) 8 kA<br>(525 V AC) 6 kA<br>(690 V AC) 3 kA |

|                                                                   |                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                   | (250 V DC) 2 Poles in Series 18 kA<br>(500 V DC) 3 Poles in Series 18 kA                                                                                                                                                                                  |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (220 V AC) 25 kA<br>(230 V AC) 25 kA<br>(240 V AC) 25 kA<br>(380 V AC) 18 kA<br>(415 V AC) 18 kA<br>(440 V AC) 15 kA<br>(500 V AC) 8 kA<br>(525 V AC) 6 kA<br>(690 V AC) 3 kA<br>(250 V DC) 2 Poles in Series 18 kA<br>(500 V DC) 3 Poles in Series 18 kA |
| Rated Uninterrupted Current (I <sub>u</sub> )                     | 160 A                                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                                     |
| Version                                                           | F                                                                                                                                                                                                                                                         |
| CAD Dimensional Drawing                                           | 1SDH001295R0008                                                                                                                                                                                                                                           |

Certificates and Declarations

|                                   |                                    |
|-----------------------------------|------------------------------------|
| ATEX Certificate                  | No certification needed            |
| Data Sheet, Technical Information | 1SDC210100D0206<br>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                    |

Classifications

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| ETIM 7                     | EC000228 - Power circuit-breaker for trafo/generator/installation protection |
| 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                                                                            |

|               |                                                            |
|---------------|------------------------------------------------------------|
| 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

