

PRODUCT-DETAILS

XT1C 160 TMD 50-500 4p F F

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**General Information**

|                       |  |
|-----------------------|--|
| Extended Product Type | XT1C 160 TMD 50-500 4p F F   |
| Product ID            | 1SDA067403R1   |
| EAN                   | 8015644012977  |
| Catalog Description   | XT1C 160 TMD 50-500 4p F F   |
| Long Description      | C.BREAKER TMAX XT1C 160 FIXED FOUR-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 50-500 A |

**ABB EcoSolutions**

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

**Circular Value**

|   |   |
|---|---|
| Circular Design Principles<br>Recyclability Rate  | Design for Closing Resource Loops - Standard EN45555 - 60.9 % |
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658   |
| End of Life Instructions                          | 9AKK108468A2347   |
| Group Waste to Landfill<br>Target                 | UL 2799 Zero Waste To Landfill Validation available           |
| Toxic Substances Control<br>Act - TSCA            | 9AKK108467A8326   |

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## Eco Transparency

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|---|-----------------|
| Environmental Product Declaration - EPD | 9AKK108468A1890 |
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## Environmental

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|---------------------------|--|
| Environmental Information | 9AKK107991A8215<br>9AKK108467A6707                                     |
| REACH Declaration         | 9AKK108466A1425  |
| RoHS Information          | 9AKK108466A1424  |
| RoHS Status               | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

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## Ordering

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|                          |                    |
|--------------------------|--------------------|
| Order Code US and Canada | XT1CE4050AFF000XXX |
| E-Number (Finland)       | 3640518            |
| EAN                      | 8015644012977      |
| Minimum Order Quantity   | 1 piece            |
| Customs Tariff Number    | 85362090           |

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## Dimensions

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

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## Container Information

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|                                |               |
|--------------------------------|---------------|
| 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   | 1.427 kg      |
| Package Level 1 EAN            | 8015644012977 |

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## Additional Information

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|                                       |  |
|---------------------------------------|--|
| 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                       | 4  |
| 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 ( $I_n$ )                                     | 50 A  |
| Rated Frequency (f)   | 50 / 60 Hz  |
| Rated Voltage ( $U_r$ )                                     | 690 V   |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )               | 8 kV  |
| Rated Instantaneous Short-Circuit Current Setting ( $I_s$ ) | 500 A   |
| Rated Insulation Voltage ( $U_i$ )                          | 800 V   |
| Rated Operational Voltage                                   | 690 V AC<br>500 V DC  |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (220 V AC) 40 kA<br>(230 V AC) 40 kA<br>(240 V AC) 40 kA<br>(380 V AC) 25 kA<br>(415 V AC) 25 kA<br>(440 V AC) 12.5 kA<br>(500 V AC) 9 kA<br>(525 V AC) 8 kA<br>(690 V AC) 4 kA<br>(250 V DC) 2 Poles in Series 25 kA<br>(500 V DC) 3 Poles in Series 25 kA |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (220 V AC) 40 kA<br>(230 V AC) 40 kA<br>(240 V AC) 40 kA<br>(380 V AC) 25 kA<br>(415 V AC) 25 kA<br>(440 V AC) 25 kA<br>(500 V AC) 18 kA<br>(525 V AC) 8 kA<br>(690 V AC) 4 kA<br>(250 V DC) 2 Poles in Series 25 kA<br>(500 V DC) 3 Poles in Series 25 kA  |
| Rated Uninterrupted Current ( $I_u$ )                       | 160 A   |
| Recommended Screw Driver                                    | Main Circuit M6   |
| Release   | TMD   |
| Release Type  | TM  |
| Setting Range   | 35...50 A   |
| Short-Circuit Performance Level                             | C   |
| Standards   | IEC   |
| Sub-type  | XT1   |
| Terminal Connection Type                                    | Front   |
| Terminal Type   | Bolt  |
| Tightening Torque   | 6 N·m   |
| Version   | F   |
| CAD Dimensional Drawing                                     | 1SDH001295R0080   |

### 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                    |

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## Classifications

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|----------------------------|--|
| 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  |
| UNSPSC                     | 39120000   |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm)                   |
| eClass                     | V11.1 : 27370409   |

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## Categories

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

