



PRODUCT-DETAILS

XT1H 160 TMD 50-500 3p F F

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| General Information   |   |
|-----------------------|---|
| Extended Product Type | XT1H 160 TMD 50-500 3p F F  |
| Product ID            | 1SDA067449R1  |
| EAN                   | 8015644013431   |
| Catalog Description   | XT1H 160 TMD 50-500 3p F F  |
| Long Description      | C.BREAKER TMAX XT1H 160 FIXED THREE-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 50-500 A |

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

| Circular Value                              |   |
|---|---|
| Circular Design                             | Design for Closing Resource Loops - Standard EN45555 - 55.9 % |
| Principles Recyclability Rate               |   |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658   |
| End of Life Instructions                    | 9AKK108468A2347   |
| Group Waste to Landfill                     | UL 2799 Zero Waste To Landfill Validation available           |

|                    |                 |
|--------------------|-----------------|
| Target             |                 |
| Toxic Substances   | 9AKK108467A8326 |
| Control Act - TSCA |                 |

Eco Transparency

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

Ordering

|                          |                    |
|--------------------------|--------------------|
| Order Code US and Canada | XT1HE3050AFF000XXX |
| EAN                      | 8015644013431      |
| 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   | 1.163 kg      |
| Package Level 1 EAN            | 8015644013431 |

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 ( $I_n$ )  | 50 A  |
| Rated Frequency (f)  | 50 / 60 Hz  |
| Rated Voltage ( $U_r$ )  | 690 V   |
| Rated Impulse<br>Withstand Voltage ( $U_{imp}$ )                   | 8 kV  |
| Rated Instantaneous<br>Short-Circuit Current<br>Setting ( $I_i$ )  | 500 A   |
| Rated Insulation Voltage<br>( $U_i$ )                              | 800 V   |
| Rated Operational<br>Voltage                                       | 690 V AC<br>500 V DC  |
| Rated Service Short-<br>Circuit Breaking<br>Capacity ( $I_{cs}$ )  | (220 V AC) 75 kA<br>(230 V AC) 75 kA<br>(240 V AC) 75 kA<br>(380 V AC) 52.5 kA<br>(415 V AC) 37.5 kA<br>(440 V AC) 32.5 kA<br>(500 V AC) 25 kA<br>(525 V AC) 17.5 kA<br>(690 V AC) 5 kA<br>(250 V DC) 2 Poles in Series 52.5 kA<br>(500 V DC) 3 Poles in Series 52.5 kA |
| Rated Ultimate Short-<br>Circuit Breaking<br>Capacity ( $I_{cu}$ ) | (220 V AC) 100 kA<br>(230 V AC) 100 kA<br>(240 V AC) 100 kA<br>(380 V AC) 70 kA<br>(415 V AC) 70 kA<br>(440 V AC) 65 kA<br>(500 V AC) 50 kA<br>(525 V AC) 35 kA<br>(690 V AC) 10 kA<br>(250 V DC) 2 Poles in Series 70 kA<br>(500 V DC) 3 Poles in Series 70 kA         |
| Rated Uninterrupted<br>Current ( $I_u$ )                           | 160 A   |
| Recommended Screw<br>Driver  | Main Circuit M6   |
| Release  | TMD   |
| Release Type   | TM  |
| Setting Range  | 35...50 A   |
| Short-Circuit<br>Performance Level                                 | H   |
| Standards  | IEC   |
| Sub-type   | XT1   |
| Terminal Connection<br>Type  | Front   |
| Terminal Type  | Bolt  |
| Tightening Torque  | 6 N·m   |
| Version  | F   |
| CAD Dimensional  | 1SDH001295R0008   |

Drawing

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  |
| 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

