



PRODUCT-DETAILS

# XT1H 160 TMD 50-500 3p F F

## XT1H 160 TMD 50-500 3p F F



### 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   |
| 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<br>9AKK108468A7793                            |
| 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  |

### Environmental

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

### Ordering

|                          |                    |
|--------------------------|--------------------|
| Order Code US and Canada | XT1HE3050AFF000XXX |
| E-Number (Norway)        | 4379217            |
| 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           |
| Product Main Type                     | SACE Tmax XT                 |
| Product Name                          | Moulded Case Circuit Breaker |
| Product Type                          | Automatic Circuit Breaker    |
| Version                               | F                            |

**Technical**

|   |   |
|---|---|
| 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   | 3P  |
| Opening Time  | CB with SOR 30 ms<br>CB with UVR 30 ms  |
| Order Multiple  | 1 piece   |
| Power Loss  | at Rated Operating Conditions per Pole 3.7 W  |
| Rated Current (I <sub>n</sub> )                                     | 50 A  |
| Rated Frequency (f)   | 50 / 60 Hz  |
| 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) 80 kA<br>(230 V AC) 80 kA<br>(240 V AC) 80 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-Circuit Breaking Capacity (I <sub>cu</sub> )   | (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 Current (I <sub>u</sub> )                       | 160 A   |
| Rated Voltage (U <sub>r</sub> )                                     | 690 V   |
| Recommended Screw Driver  | Main Circuit M6   |
| Release   | TMD   |
| Release Type  | TM  |
| Setting Range   | 35...50 A   |
| Short-Circuit Performance Level                                     | H   |
| 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<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                    |

### 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

