



PRODUCT-DETAILS

XT1S 160 TMD 50-500 4p F F

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General Information

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| Extended Product Type | XT1S 160 TMD 50-500 4p F F                                                                             |
| Product ID            | 1SDA067439R1                                                                                           |
| EAN                   | 8015644013332                                                                                          |
| Catalog Description   | XT1S 160 TMD 50-500 4p F F                                                                             |
| Long Description      | C.BREAKER TMAX XT1S 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                  | Design for Closing Resource Loops - Standard EN45555 - 55.9 % |
| Recyclability Rate                          |                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                               |
| 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 |

Ordering

|                          |                    |
|--------------------------|--------------------|
| Order Code US and Canada | XT1SE4050AFF000XXX |
| EAN                      | 8015644013332      |
| Minimum Order Quantity   | 1 piece            |
| Customs Tariff Number    | 85362090           |

Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 101.6 mm |
| Product Net Height         | 130 mm   |
| Product Net Depth / Length | 70 mm    |
| Product Net Weight         | 1.4 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   | 1.4 kg        |
| Package Level 1 EAN            | 8015644013332 |

Additional Information

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Circuit Breaker Type to be Associated | Power Distribution                 |
| Connecting Capacity Main Circuit      | Busbar 45.5 ... 80 mm²             |
| 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                  |

|                                                             |                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | 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) 63.75 kA<br>(230 V AC) 63.75 kA<br>(240 V AC) 63.75 kA<br>(380 V AC) 50 kA<br>(415 V AC) 37.5 kA<br>(440 V AC) 25 kA<br>(500 V AC) 18 kA<br>(525 V AC) 17.5 kA<br>(690 V AC) 5 kA<br>(250 V DC) 2 Poles in Series 50 kA<br>(500 V DC) 3 Poles in Series 50 kA |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (220 V AC) 85 kA<br>(230 V AC) 85 kA<br>(240 V AC) 85 kA<br>(380 V AC) 50 kA<br>(415 V AC) 50 kA<br>(440 V AC) 50 kA<br>(500 V AC) 36 kA<br>(525 V AC) 35 kA<br>(690 V AC) 8 kA<br>(250 V DC) 2 Poles in Series 50 kA<br>(500 V DC) 3 Poles in Series 50 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                             | S                                                                                                                                                                                                                                                                        |
| Standards                                                   | IEC60947-2                                                                                                                                                                                                                                                               |
| 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         |

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

