



PRODUCT-DETAILS

XT1B 160 TMD 20-450 4p F F

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| General Information   |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| Extended Product Type | XT1B 160 TMD 20-450 4p F F                                                                             |
| Product ID            | 1SDA066811R1                                                                                           |
| EAN                   | 8015644694500                                                                                          |
| Catalog Description   | XT1B 160 TMD 20-450 4p F F                                                                             |
| Long Description      | C.BREAKER TMAX XT1B 160 FIXED FOUR-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 20-450 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 |
|                                         | 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 | XT1BE4020AFF000XXX |
| E-Number (Finland)       | 3640504            |
| EAN                      | 8015644694500      |
| 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            | 8015644694500 |

Additional Information

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

Main Circuit

|                                                                    |                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 1.8 W                                                                                                                                                                                                                 |
| Product Main Type                                                  | SACE Tmax XT                                                                                                                                                                                                                                                 |
| Product Name                                                       | Moulded Case Circuit Breaker                                                                                                                                                                                                                                 |
| Product Type                                                       | Automatic Circuit Breaker                                                                                                                                                                                                                                    |
| Rated Current ( $I_n$ )                                            | 20 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 ( $I_i$ )  | 450 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) 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<br>(250 V DC) 2 Poles in Series 18 kA<br>(500 V DC) 3 Poles in Series 18 kA |
| Rated Ultimate Short-<br>Circuit Breaking<br>Capacity ( $I_{cu}$ ) | (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<br>Current ( $I_u$ )                           | 160 A                                                                                                                                                                                                                                                        |
| Recommended Screw<br>Driver                                        | Main Circuit M6                                                                                                                                                                                                                                              |
| Release                                                            | TMD                                                                                                                                                                                                                                                          |
| Release Type                                                       | TM                                                                                                                                                                                                                                                           |
| Setting Range                                                      | 14...20 A                                                                                                                                                                                                                                                    |
| Short-Circuit<br>Performance Level                                 | B                                                                                                                                                                                                                                                            |
| Standards                                                          | IEC60947-2                                                                                                                                                                                                                                                   |
| Sub-type                                                           | XT1                                                                                                                                                                                                                                                          |
| Terminal Connection<br>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                                                                            |
| 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

