



PRODUCT-DETAILS

XT1H 160 TMF 20-450 3p F F

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| General Information   |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Extended Product Type | XT1H 160 TMF 20-450 3p F F                                                                              |
| Product ID            | 1SDA080836R1                                                                                            |
| EAN                   | 8015644873646                                                                                           |
| Catalog Description   | XT1H 160 TMF 20-450 3p F F                                                                              |
| Long Description      | C.BREAKER TMAX XT1H 160 FIXED THREE-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMF 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 | XT1HE3020AFF000XXX |
| EAN                      | 8015644873646      |
| 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 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   | 1.1 kg        |
| Package Level 1 EAN            | 8015644873646 |

Additional Information

|                                       |                     |
|---------------------------------------|---------------------|
| Circuit Breaker Type to be Associated | Power Distribution  |
| Current Type                          | AC/DC               |
| Electrical Durability                 | 120 cycles per hour |

|                                                                    |                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                    | 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                                                                                                                                                                                                                                                                 |
| Product Main Type                                                  | SACE Tmax XT                                                                                                                                                                                                                                                            |
| Product Name                                                       | Moulded Case Circuit Breaker                                                                                                                                                                                                                                            |
| Product Type                                                       | Automatic Circuit Breaker                                                                                                                                                                                                                                               |
| Rated Current ( $I_n$ )                                            | 20 A                                                                                                                                                                                                                                                                    |
| 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) 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                                                                                                                                                                                                                                                                   |
| Release                                                            | TMF                                                                                                                                                                                                                                                                     |
| Release Type                                                       | TM                                                                                                                                                                                                                                                                      |
| Setting Range                                                      | 20 A                                                                                                                                                                                                                                                                    |
| Short-Circuit<br>Performance Level                                 | H                                                                                                                                                                                                                                                                       |
| Standards                                                          | IEC60947-2                                                                                                                                                                                                                                                              |
| Sub-type                                                           | XT1                                                                                                                                                                                                                                                                     |
| Terminal Connection<br>Type                                        | Front                                                                                                                                                                                                                                                                   |
| Version                                                            | F                                                                                                                                                                                                                                                                       |
| CAD Dimensional<br>Drawing                                         | 1SDH001295R0008                                                                                                                                                                                                                                                         |

Certificates and Declarations

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 1SDC210100D0206<br>1SDC210099D0206 |
| Declaration of Conformity - CE    | 9AKK106713A5532                    |
| 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 |
| 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

