



PRODUCT-DETAILS

# XT2S 160 MA 20 Im=120...280 3p F F

## XT2S 160 MA 20 Im=120...280 3p F F



### General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | XT2S 160 MA 20 Im=120...280 3p F F   |
| Product ID            | 1SDA067765R1   |
| EAN                   | 8015644016616  |
| Catalog Description   | XT2S 160 MA 20 Im=120...280 3p F F   |
| Long Description      | C.BREAKER TMAX XT2S 160 FIXED THREE-POLE WITH FRONT TERMINALS AND MAGNETIC RELEASE MA Iu 20 A I3=120...280 A |

### ABB EcoSolutions

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

### Circular Value

|   |  |
|---|--|
| Circular Design Principles Recyclability Rate | Design for Closing Resource Loops - Standard EN45555 - 55.70 % |
| Conflict Minerals Reporting Template          | 9AKK108467A5658  |

(CMRT)

|                                     |   |
|-------------------------------------|---|
| End of Life Instructions            | 9AKK108468A2348                                     |
| 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 | 9AKK108469A1856<br>9AKK108468A1891 |
|---|------------------------------------|

**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 | XT2SE3020MFF000XXX |
| E-Number (Finland)       | 3602489            |
| EAN                      | 8015644016616      |
| Minimum Order Quantity   | 1 piece            |
| Customs Tariff Number    | 85362090           |

**Dimensions**

|                            |         |
|----------------------------|---------|
| Product Net Width          | 90 mm   |
| Product Net Height         | 130 mm  |
| Product Net Depth / Length | 82.5 mm |
| Product Net Weight         | 1.4 kg  |

**Container Information**

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 130 mm        |
| Package Level 1 Height         | 208 mm        |
| Package Level 1 Depth / Length | 145 mm        |
| Package Level 1 Gross Weight   | 1.682 kg      |
| Package Level 1 EAN            | 8015644016616 |

**Additional Information**

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Circuit Breaker Type to be Associated | Motor Protection                 |
| Connecting Capacity                   | Busbar 32.5..100 mm <sup>2</sup> |

|   |  |
|---|--|
| 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   | 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 1.62 W  |
| Product Main Type   | SACE Tmax XT   |
| Product Name  | Moulded Case Circuit Breaker   |
| Product Type  | Automatic Circuit Breaker  |
| Rated Current (I <sub>n</sub> )                                     | 20 A   |
| Rated Frequency (f)   | 50 / 60 Hz   |
| Rated Voltage (U <sub>r</sub> )                                     | 690 V  |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )                 | 8 kV   |
| Rated Instantaneous Short-Circuit Current Setting (I <sub>i</sub> ) | 120...280 A  |
| Rated Insulation Voltage (U <sub>i</sub> )                          | 1000 V   |
| Rated Operational Voltage   | 690 V AC<br>500 V DC   |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )    | (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) 25 kA<br>(690 V AC) 12 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 <sub>cu</sub> )   | (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) 25 kA<br>(690 V AC) 12 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 <sub>u</sub> )                       | 160 A  |
| Recommended Screw Driver  | Main Circuit M6  |
| Release   | MA   |
| Release Type  | M  |
| Short-Circuit Performance Level                                     | S  |
| Standards   | IEC60947-2   |
| Sub-type  | XT2  |
| Terminal Connection Type  | Front  |
| Terminal Type   | Bolt   |

|                         |                 |
|-------------------------|-----------------|
| Tightening Torque       | 6 N·m           |
| Version                 | F               |
| CAD Dimensional Drawing | 1SDH002230A1001 |

### Certificates and Declarations

|                                   |                                    |
|-----------------------------------|------------------------------------|
| ATEX Certificate                  | No certification needed            |
| Data Sheet, Technical Information | 1SDC210100D0206<br>1SDC210099D0206 |
| Declaration of Conformity - CE    | 9AKK106713A5901                    |
| GL Certificate                    | 1SDL000163R0093                    |
| LR Certificate                    | 1SDL000163R0100                    |
| UL Certificate                    | No certification needed            |
| VDE Certificate                   | No certification needed            |
| Dimension Diagram                 | 1SDH000721R0100                    |
| Mechanical Drawings               | 1SDH000721R0100                    |
| Wiring Diagram                    | 1SDM000068R0001                    |
| Instructions and Manuals          | 1SDH000721R0001                    |

### 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

