



PRODUCT-DETAILS

XT2S 160 TMA 50-500 3p F F

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| General Information   |                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | XT2S 160 TMA 50-500 3p F F                                                                                       |
| Product ID            | 1SDA067555R1                                                                                                     |
| EAN                   | 8015644014513                                                                                                    |
| Catalog Description   | XT2S 160 TMA 50-500 3p F F                                                                                       |
| Long Description      | C.BREAKER TMAX XT2S 160 FIXED THREE-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMA R 50 I3=250...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            | 9AKK108468A2348                                                |
| Environmental Product Declaration - EPD           | 9AKK108469A1856<br>9AKK108468A1891                             |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 55.70 % |

## Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| REACH Declaration                           | 9AKK108466A1425                                                        |
| RoHS Information                            | 9AKK108466A1424                                                        |
| RoHS Status                                 | 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 | XT2SE3050BFF000XXX |
| E-Number (Finland)       | 3638193            |
| E-Number (Norway)        | 4379275            |
| EAN                      | 8015644014513      |
| 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   | 1.671 kg      |
| Package Level 1 EAN            | 8015644014513 |

## 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               |
| CAD Dimensional Drawing | 1SDH002230A1001 |

## Technical

|                                                                     |                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                     | 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 4.09 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> ) | 300...500 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                                                                                                                                                                                                                                                        |
| Rated Voltage (U <sub>r</sub> )                                     | 690 V                                                                                                                                                                                                                                                        |
| Recommended Screw Driver                                            | Main Circuit M6                                                                                                                                                                                                                                              |
| Release                                                             | TMA                                                                                                                                                                                                                                                          |
| Release Type                                                        | TM                                                                                                                                                                                                                                                           |
| Setting Range                                                       | 35...50 A                                                                                                                                                                                                                                                    |
| Short-Circuit Performance Level                                     | S                                                                                                                                                                                                                                                            |

|                          |            |
|--------------------------|------------|
| Standards                | IEC60947-2 |
| Sub-type                 | XT2        |
| 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    | 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                    |

### External Classifications and Standards

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| 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

