



PRODUCT-DETAILS

XT1N 160 TMD 32-450 4p F F

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General Information

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| Extended Product Type | XT1N 160 TMD 32-450 4p F F                                                                             |
| Product ID            | 1SDA067419R1                                                                                           |
| EAN                   | 8015644013134                                                                                          |
| Catalog Description   | XT1N 160 TMD 32-450 4p F F                                                                             |
| Long Description      | C.BREAKER TMAX XT1N 160 FIXED FOUR-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 32-450 A |

ABB EcoSolutions

|                                                   |                                                               |
|---------------------------------------------------|---------------------------------------------------------------|
| ABB EcoSolutions                                  | Yes                                                           |
| ABB Site Meeting Group                            | UL 2799 Zero Waste To Landfill Validation available           |
| Waste To Landfill Target                          |                                                               |
| End Of Life Disassembling Instructions            | 9AKK108468A2347                                               |
| Environmental Product Declaration - EPD           | 9AKK108468A1890<br>9AKK108468A7793                            |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 55.9 % |

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SCIP                                        | f9bd9468-5125-4431-8584-a57b00bea951 Italy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Simplified SCIP                             | a6cdfadd-e966-4693-b691-e54ccb40925a Belgium<br>a90c82eb-b939-4187-9eb5-541db46c0370 France<br>b6e43b65-ba0d-4289-8c2f-fec23cb26b73 Spain<br>e89f486c-28e2-4e40-bd40-34ee27366375 Germany<br>8fa8b81b-84ed-4353-a426-5d89492bd813 Czech Republic<br>325b21bf-6b47-47b3-876c-e43123a11e41 Germany<br>d2dd1ec9-bc62-4226-9658-2220ad1a4204 Croatia<br>0b06b3b9-00c8-4421-b742-67fc2c9bb176 Germany<br>94dac7fb-2160-4d83-9374-1a7a08924203 Sweden<br>62f1a221-6a1a-4f97-abe6-478502816b25 Hungary<br>ce10055e-1964-442f-b72a-c68b67c2495e Germany<br>0f806b46-eb93-46d8-9f3e-909ad906e508 Portugal<br>827ba498-b24a-4ade-a6d7-07aabe245409 Poland<br>23a869b6-9efb-4426-9fbd-0e9c66238e8b Poland<br>19c6c082-7a0f-43f7-b23f-76ec4a9f4e33 Bulgaria<br>998fabec-f3f1-423e-b293-941c68e3d327 France<br>e03713e9-d8fa-4413-bef5-f80de83f8837 Germany<br>9ce5449e-6dec-4eb9-be25-3d0ebd8ac527 Greece<br>d1ade6f7-8b28-4c13-b4f0-3911ee7648e8 Denmark<br>0db44ebf-bb02-44a7-a0ed-84a75cd1f43b Estonia<br>747672de-9ea5-4e0c-83bf-d44dc599a20d Belgium<br>1b40320d-ce6a-4bb7-bc0a-95aa81fae957 Hungary<br>f22229db-3fe4-46e9-b7fc-51079f8a6102 Poland<br>c01722b9-e994-42b1-a489-df33c5b0dbf2 Finland<br>3f871474-4709-46ac-a549-0741e68ce02d Netherlands<br>89f15a33-e498-4a1b-ba2a-67b747aa7a50 Norway<br>88a860a6-8abb-43a2-8500-84ad904739da Sweden |

## Environmental

|                           |                 |
|---------------------------|-----------------|
| Environmental Information | 9AKK108467A6707 |
|---------------------------|-----------------|

## Ordering

|                          |                    |
|--------------------------|--------------------|
| Order Code US and Canada | XT1NE4032AFF000XXX |
| E-Number (Finland)       | 3640539            |
| E-Number (Norway)        | 4379232            |
| EAN                      | 8015644013134      |
| 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   | 1.446 kg      |
| Package Level 1 EAN            | 8015644013134 |

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               | 1SDH001295R0080              |

Technical

|                                                                     |                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                     | 4P                                                                                                                                                                                                                                                          |
| 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 2.1 W                                                                                                                                                                                                                |
| Rated Current (I <sub>n</sub> )                                     | 32 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>s</sub> ) | 450 A                                                                                                                                                                                                                                                       |
| Rated Insulation Voltage (U <sub>i</sub> )                          | 800 V                                                                                                                                                                                                                                                       |
| Rated Operational Voltage                                           | 690 V AC<br>500 V DC                                                                                                                                                                                                                                        |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )    | (220 V AC) 50 kA<br>(230 V AC) 50 kA<br>(240 V AC) 50 kA<br>(380 V AC) 36 kA<br>(415 V AC) 36 kA<br>(440 V AC) 18 kA<br>(500 V AC) 15 kA<br>(525 V AC) 11 kA<br>(690 V AC) 5 kA<br>(250 V DC) 2 Poles in Series 36 kA<br>(500 V DC) 3 Poles in Series 36 kA |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )   | (220 V AC) 65 kA<br>(230 V AC) 65 kA<br>(240 V AC) 65 kA<br>(380 V AC) 36 kA<br>(415 V AC) 36 kA<br>(440 V AC) 36 kA<br>(500 V AC) 30 kA<br>(525 V AC) 22 kA<br>(690 V AC) 6 kA<br>(250 V DC) 2 Poles in Series 36 kA                                       |

(500 V DC) 3 Poles in Series 36 kA

|                                       |                 |
|---------------------------------------|-----------------|
| Rated Uninterrupted Current ( $I_u$ ) | 160 A           |
| Rated Voltage ( $U_r$ )               | 690 V           |
| Recommended Screw Driver              | Main Circuit M6 |
| Release                               | TMD             |
| Release Type                          | TM              |
| Setting Range                         | 22.4...32 A     |
| Short-Circuit Performance Level       | N               |
| Standards                             | IEC60947-2      |
| Sub-type                              | XT1             |
| 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    | 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                    |

## 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

