



PRODUCT-DETAILS

XT1N 160 TMD 160-1600 4p F F InN=50%

XT1N 160 TMD 160-1600 4p F F InN=50%



| General Information   |                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | XT1N 160 TMD 160-1600 4p F F InN=50%                                                                                          |
| Product ID            | 1SDA067426R1                                                                                                                  |
| EAN                   | 8015644013202                                                                                                                 |
| Catalog Description   | XT1N 160 TMD 160-1600 4p F F InN=50%                                                                                          |
| Long Description      | C.BREAKER TMAX XT1N 160 FIXED FOUR-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 160-1600 A NEUTRAL = 50% PHASES |

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

| Circular Value                              |                                                               |
|---------------------------------------------|---------------------------------------------------------------|
| Circular Design Principles                  | Design for Closing Resource Loops - Standard EN45555 - 55.9 % |
| Recyclability Rate                          |                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                               |
| 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<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SCIP                      | 94fc082b-5d76-4eeb-8e15-5bc418ea47af Italy (IT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Simplified SCIP           | fa3b011f-e8ce-44e9-b47c-88318fee50f7 Germany (DE)<br>3ec8def3-26e1-4ea0-aa32-57f71b742262 Netherlands (NL)<br>75bbca28-e587-474a-9cd9-93bd683eb6bd Poland (PL)<br>0f3c025e-76a4-42f8-a532-77289e6ce527 France (FR)<br>7e0ca652-f8ae-4579-b473-9a158dafbc5c Sweden (SE)<br>bac36a39-01c4-4a6f-af9e-9b7161d1e1bc Germany (DE)<br>c51b95da-3991-4a00-8ef2-a296e7f49316 Germany (DE)<br>f63704f1-3070-4977-8e44-350fb8cf5b76 France (FR)<br>35ec6a18-d596-47b6-bac9-d899ecfe1a71 Netherlands (NL)<br>60ba9153-13fb-4c7d-847d-fd8687e3684f Spain (ES)<br>c22759bd-e767-42ec-a60c-4a0bf8d08046 Poland (PL)<br>8176d198-3736-4051-a517-95d2c29d4933 Norway (NO)<br>25687a92-dfaa-486f-9862-2989dc1e4d20 Finland (FI)<br>f63704f1-3070-4977-8e44-350fb8cf5b76 France (FR)<br>35ec6a18-d596-47b6-bac9-d899ecfe1a71 Netherlands (NL)<br>60ba9153-13fb-4c7d-847d-fd8687e3684f Spain (ES)<br>3ec8def3-26e1-4ea0-aa32-57f71b742262 Netherlands (NL)<br>35fcd6a6-24d8-4ae4-9584-618010b0dd12 Bulgaria (BG)<br>3bff1077-073c-4af5-8b20-c327726bb6ec Sweden (SE)<br>cfa3eca7-9354-475b-a8cf-e1ee7abe2bf0 Estonia (EE)<br>e6c36f1a-665b-4b63-aeed-1f21831af460 Greece (GR)<br>de8c84de-a508-41dd-a934-57ef560cec5e Portugal (PT)<br>7e0ca652-f8ae-4579-b473-9a158dafbc5c Sweden (SE)<br>bac36a39-01c4-4a6f-af9e-9b7161d1e1bc Germany (DE)<br>c51b95da-3991-4a00-8ef2-a296e7f49316 Germany (DE)<br>e6265f58-711e-4fd2-bef1-0881d3c8addf Netherlands (NL)<br>27c0fb6e-d769-4603-9bf6-3ff184b9c964 Germany (DE)<br>53a6811b-361d-42c0-8fdd-ceafeda65111 Denmark (DK)<br>b53d8468-4e87-491b-b3f7-b7aa24061656 Germany (DE)<br>9f412e57-8038-4a0e-81da-a6d522566174 Croatia (HR)<br>1d62ba95-6642-4c2c-ab93-b59bb2a2ee4d Czech Republic (CZ)<br>4c6f5836-0888-465b-b68d-ffa17714d0df Poland (PL)<br>c22759bd-e767-42ec-a60c-4a0bf8d08046 Poland (PL)<br>8176d198-3736-4051-a517-95d2c29d4933 Norway (NO)<br>25687a92-dfaa-486f-9862-2989dc1e4d20 Finland (FI)<br>e6265f58-711e-4fd2-bef1-0881d3c8addf Netherlands (NL)<br>27c0fb6e-d769-4603-9bf6-3ff184b9c964 Germany (DE)<br>53a6811b-361d-42c0-8fdd-ceafeda65111 Denmark (DK)<br>b53d8468-4e87-491b-b3f7-b7aa24061656 Germany (DE)<br>9f412e57-8038-4a0e-81da-a6d522566174 Croatia (HR)<br>1d62ba95-6642-4c2c-ab93-b59bb2a2ee4d Czech Republic (CZ)<br>4c6f5836-0888-465b-b68d-ffa17714d0df Poland (PL)<br>924d376e-341e-48de-a6bd-e4907f9d0cf8 Netherlands (NL)<br>d353cc07-7fe6-457f-a644-d0f476b52145 Netherlands (NL)<br>0f3c025e-76a4-42f8-a532-77289e6ce527 France (FR)<br>35fcd6a6-24d8-4ae4-9584-618010b0dd12 Bulgaria (BG)<br>3bff1077-073c-4af5-8b20-c327726bb6ec Sweden (SE)<br>75bbca28-e587-474a-9cd9-93bd683eb6bd Poland (PL)<br>924d376e-341e-48de-a6bd-e4907f9d0cf8 Netherlands (NL)<br>d353cc07-7fe6-457f-a644-d0f476b52145 Netherlands (NL)<br>cfa3eca7-9354-475b-a8cf-e1ee7abe2bf0 Estonia (EE)<br>e6c36f1a-665b-4b63-aeed-1f21831af460 Greece (GR)<br>de8c84de-a508-41dd-a934-57ef560cec5e Portugal (PT) |

|                          |                    |
|--------------------------|--------------------|
| <b>Ordering</b>          |                    |
| Order Code US and Canada | XT1NEN160AFF000XXX |
| E-Number (Finland)       | 3640535            |
| EAN                      | 8015644013202      |
| Minimum Order Quantity   | 1 piece            |
| Customs Tariff Number    | 85362090           |

|                            |          |
|----------------------------|----------|
| <b>Dimensions</b>          |          |
| Product Net Width          | 101.6 mm |
| Product Net Height         | 130 mm   |
| Product Net Depth / Length | 70 mm    |
| Product Net Weight         | 1.4 kg   |

|                                |               |
|--------------------------------|---------------|
| <b>Container Information</b>   |               |
| 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   | 1.54 kg       |
| Package Level 1 EAN            | 8015644013202 |

|                                                                     |                                             |
|---------------------------------------------------------------------|---------------------------------------------|
| <b>Additional Information</b>                                       |                                             |
| Circuit Breaker Type to be Associated                               | Power Distribution                          |
| 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                                                     | 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 15 W |
| Product Main Type                                                   | SACE Tmax XT                                |
| Product Name                                                        | Moulded Case Circuit Breaker                |
| Product Type                                                        | Automatic Circuit Breaker                   |
| Rated Current (I <sub>n</sub> )                                     | 160 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> ) | 1600 A                                      |
| Rated Insulation Voltage (U <sub>i</sub> )                          | 800 V                                       |
| Rated Operational Voltage                                           | 690 V AC<br>500 V DC                        |
| Rated Service Short-                                                | (220 V AC) 50 kA                            |

|                                                                      |                                                                          |
|----------------------------------------------------------------------|--------------------------------------------------------------------------|
| Circuit Breaking Capacity<br>(I <sub>cs</sub> )                      | (230 V AC) 50 kA                                                         |
|                                                                      | (240 V AC) 50 kA                                                         |
|                                                                      | (380 V AC) 36 kA                                                         |
|                                                                      | (415 V AC) 36 kA                                                         |
|                                                                      | (440 V AC) 18 kA                                                         |
|                                                                      | (500 V AC) 15 kA                                                         |
|                                                                      | (525 V AC) 11 kA                                                         |
|                                                                      | (690 V AC) 5 kA                                                          |
|                                                                      | (250 V DC) 2 Poles in Series 36 kA                                       |
|                                                                      | (500 V DC) 3 Poles in Series 36 kA                                       |
| Rated Ultimate Short-Circuit Breaking Capacity<br>(I <sub>cu</sub> ) | (220 V AC) 65 kA                                                         |
|                                                                      | (230 V AC) 65 kA                                                         |
|                                                                      | (240 V AC) 65 kA                                                         |
|                                                                      | (380 V AC) 36 kA                                                         |
|                                                                      | (415 V AC) 36 kA                                                         |
|                                                                      | (440 V AC) 36 kA                                                         |
|                                                                      | (500 V AC) 30 kA                                                         |
|                                                                      | (525 V AC) 22 kA                                                         |
|                                                                      | (690 V AC) 6 kA                                                          |
|                                                                      | (250 V DC) 2 Poles in Series 36 kA<br>(500 V DC) 3 Poles in Series 36 kA |
| Rated Uninterrupted Current (I <sub>u</sub> )                        | 160 A                                                                    |
| Recommended Screw Driver                                             | Main Circuit M6                                                          |
| Release                                                              | TMD                                                                      |
| Release Type                                                         | TM                                                                       |
| RoHS Date                                                            | NA                                                                       |
| Setting Range                                                        | 112...160 A                                                              |
| Short-Circuit Performance Level                                      | N                                                                        |
| Standards                                                            | IEC60947-2                                                               |
| Sub-type                                                             | XT1                                                                      |
| Terminal Connection 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         |
|                                   | 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                                                                            |
| UNSPSC                     | 39120000                                                                     |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm)                   |

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## Categories

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Low Voltage Products and Systems → Circuit Breakers → Moulded Case Circuit Breakers → Tmax XT

