



PRODUCT-DETAILS

XT1N 160 TMD 63-630 4p F F

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General Information

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| Extended Product Type | XT1N 160 TMD 63-630 4p F F                                                                             |
| Product ID            | 1SDA067422R1                                                                                           |
| EAN                   | 8015644013165                                                                                          |
| Catalog Description   | XT1N 160 TMD 63-630 4p F F                                                                             |
| Long Description      | C.BREAKER TMAX XT1N 160 FIXED FOUR-POLE WITH FRONT TERMINALS AND THERMOMAGNETIC RELEASE TMD R 63-630 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                                        | 2939a495-94f9-4df0-8d09-b4cba9a7f42d Italy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Simplified SCIP                             | 14654c61-b8e6-4026-99b2-75b9927e6a67 Germany<br>4bd11e1d-ff97-4501-9a00-ef7d79cbdb22 Portugal<br>011ef0f3-3c0b-4c15-ba84-f08d30654c92 Bulgaria<br>a1696877-1e77-4c91-8b04-a5884484b9fd Sweden<br>80cc1f53-865f-4127-b5cf-7fdf2da1c3d3 Poland<br>0ca8500a-7b2d-42de-bb8f-88b2b37b77b5 Norway<br>f255df08-29c5-4eb8-b909-ca0458f42e22 Finland<br>0aa80ded-6cd3-45d7-a85a-8452f513e774 Netherlands<br>11c3cc78-2daf-46f8-8e0c-62a65394b065 Germany<br>22989b0b-d684-4f76-9344-31069da595f9 Estonia<br>96e1028e-8f81-4ea8-b646-4352edbf8bd3 Greece<br>4bd11e1d-ff97-4501-9a00-ef7d79cbdb22 Portugal<br>835afb38-6457-4e0a-b269-af612e770984 Sweden<br>b9f21ee6-ba4b-4ca8-be2f-8e900f877587 Germany<br>9ff49ab2-0c21-45d9-83cc-710dd431a944 Germany<br>48d6d7f6-f1f3-44a6-abf6-3e5edd1dd7e1 France<br>78bc6da9-ab27-4b87-bbad-75d9b1934ee4 Denmark<br>216e98ed-7c85-46e2-b89b-b4831def4243 Germany<br>ab426f0d-e487-40d4-9b85-9b185357d746 Croatia<br>5a8a2d93-1a6b-40a9-83a2-5b6b975fcb4 Czech Republic<br>25b44094-4613-4582-a00b-55928a573558 Poland<br>8db77469-eb15-415f-a9d5-ac2653486444 Netherlands<br>fdc61351-732a-4076-b45a-38d4b72e87e3 Netherlands<br>62a53cdd-bc77-42af-880b-80ab5c815de8 Netherlands<br>6aaf5f75-4da4-415d-866f-2ac9fb2072b5 Poland<br>25a10820-1bb6-4561-9456-5d374ac5f0e5 France<br>470dbb81-2480-4117-837c-89f4864cd3bb Spain<br>24f5fd2d-9774-4a24-8f53-1de373d7fc40 Netherlands<br>011ef0f3-3c0b-4c15-ba84-f08d30654c92 Bulgaria<br>a1696877-1e77-4c91-8b04-a5884484b9fd Sweden<br>24f5fd2d-9774-4a24-8f53-1de373d7fc40 Netherlands<br>6aaf5f75-4da4-415d-866f-2ac9fb2072b5 Poland<br>25a10820-1bb6-4561-9456-5d374ac5f0e5 France<br>835afb38-6457-4e0a-b269-af612e770984 Sweden<br>b9f21ee6-ba4b-4ca8-be2f-8e900f877587 Germany<br>9ff49ab2-0c21-45d9-83cc-710dd431a944 Germany<br>48d6d7f6-f1f3-44a6-abf6-3e5edd1dd7e1 France<br>62a53cdd-bc77-42af-880b-80ab5c815de8 Netherlands<br>470dbb81-2480-4117-837c-89f4864cd3bb Spain<br>80cc1f53-865f-4127-b5cf-7fdf2da1c3d3 Poland<br>0ca8500a-7b2d-42de-bb8f-88b2b37b77b5 Norway<br>f255df08-29c5-4eb8-b909-ca0458f42e22 Finland<br>0aa80ded-6cd3-45d7-a85a-8452f513e774 Netherlands<br>11c3cc78-2daf-46f8-8e0c-62a65394b065 Germany<br>78bc6da9-ab27-4b87-bbad-75d9b1934ee4 Denmark<br>216e98ed-7c85-46e2-b89b-b4831def4243 Germany<br>ab426f0d-e487-40d4-9b85-9b185357d746 Croatia<br>5a8a2d93-1a6b-40a9-83a2-5b6b975fcb4 Czech Republic<br>25b44094-4613-4582-a00b-55928a573558 Poland<br>8db77469-eb15-415f-a9d5-ac2653486444 Netherlands<br>fdc61351-732a-4076-b45a-38d4b72e87e3 Netherlands<br>22989b0b-d684-4f76-9344-31069da595f9 Estonia<br>96e1028e-8f81-4ea8-b646-4352edbf8bd3 Greece |

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

| Ordering          |                    |
|-------------------|--------------------|
| Order Code US and | XT1NE4063AFF000XXX |

|                        |               |
|------------------------|---------------|
| Canada                 |               |
| E-Number (Finland)     | 3640542       |
| E-Number (Norway)      | 4379235       |
| E-Number (Sweden)      | 3182420       |
| EAN                    | 8015644013165 |
| 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   | 1.465 kg      |
| Package Level 1 EAN            | 8015644013165 |

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 4.3 W |
| Rated Current (I <sub>n</sub> )                                     | 63 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> ) | 630 A                                        |

|                                                                |                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Insulation Voltage<br>( $U_i$ )                          | 800 V                                                                                                                                                                                                                                                       |
| Rated Operational Voltage                                      | 690 V AC<br>500 V DC                                                                                                                                                                                                                                        |
| Rated Service Short-Circuit Breaking Capacity<br>( $I_{cs}$ )  | (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<br>( $I_{cu}$ ) | (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<br>(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                                                  | 44.1...63 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

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## Categories

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

