



PRODUCT-DETAILS

XT2L 160 MA 20 Im=120...280 3p F F

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| General Information   |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| Extended Product Type | XT2L 160 MA 20 Im=120...280 3p F F                                                                           |
| Product ID            | 1SDA067785R1                                                                                                 |
| EAN                   | 8015644695576                                                                                                |
| Catalog Description   | XT2L 160 MA 20 Im=120...280 3p F F                                                                           |
| Long Description      | C.BREAKER TMAX XT2L 160 FIXED THREE-POLE WITH FRONT TERMINALS AND MAGNETIC RELEASE MA lu 20 A I3=120...280 A |

| ABB EcoSolutions                                  |                                                                |
|---------------------------------------------------|----------------------------------------------------------------|
| ABB EcoSolutions                                  | Yes                                                            |
| ABB Site Meeting Group Waste To Landfill Target   | UL 2799 Zero Waste To Landfill Validation available            |
| End Of Life Disassembling Instructions            | 9AKK108468A2348                                                |
| Environmental Product Declaration - EPD           | 9AKK108469A1856<br>9AKK108468A1891                             |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 55.70 % |

## Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| REACH Declaration                           | 9AKK108466A1425                                                        |
| RoHS Information                            | 9AKK108466A1424                                                        |
| RoHS Status                                 | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                                        |
| Toxic Substances Control Act - TSCA         | 9AKK108467A8326                                                        |

## Environmental

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

## Ordering

|                          |                    |
|--------------------------|--------------------|
| Order Code US and Canada | XT2LE3020MFF000XXX |
| E-Number (Norway)        | 4379398            |
| EAN                      | 8015644695576      |
| Minimum Order Quantity   | 1 piece            |
| Customs Tariff Number    | 85362090           |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 90 mm   |
| Product Net Height         | 130 mm  |
| Product Net Depth / Length | 82.5 mm |
| Product Net Weight         | 1.1 kg  |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 131 mm        |
| Package Level 1 Height         | 212 mm        |
| Package Level 1 Depth / Length | 147 mm        |
| Package Level 1 Gross Weight   | 1.2 kg        |
| Package Level 1 EAN            | 8015644695576 |

## Additional Information

|                                       |                              |
|---------------------------------------|------------------------------|
| Circuit Breaker Type to be Associated | Motor Protection             |
| Product Main Type                     | SACE Tmax XT                 |
| Product Name                          | Moulded Case Circuit Breaker |
| Product Type                          | Automatic Circuit Breaker    |
| Version                               | F                            |

CAD Dimensional  
Drawing

1SDH002230A1001

# Technical

|                                                                           |                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connecting Capacity<br>Main Circuit                                       | Busbar 32.5..100 mm <sup>2</sup>                                                                                                                                                                                                                                   |
| Current Type                                                              | AC/DC                                                                                                                                                                                                                                                              |
| Electrical Durability                                                     | 120 cycles per hour<br>8000 cycle                                                                                                                                                                                                                                  |
| Mechanical Durability                                                     | 240 cycles per hour<br>25000 cycle                                                                                                                                                                                                                                 |
| Number of Poles                                                           | 3P                                                                                                                                                                                                                                                                 |
| Opening Time                                                              | CB with SOR 30 ms<br>CB with UVR 30 ms                                                                                                                                                                                                                             |
| Order Multiple                                                            | 1 piece                                                                                                                                                                                                                                                            |
| Power Loss                                                                | at Rated Operating Conditions per Pole 1.62 W                                                                                                                                                                                                                      |
| Rated Current (I <sub>n</sub> )                                           | 20 A                                                                                                                                                                                                                                                               |
| Rated Frequency (f)                                                       | 50 / 60 Hz                                                                                                                                                                                                                                                         |
| Rated Impulse<br>Withstand Voltage (U <sub>imp</sub><br>)                 | 8 kV                                                                                                                                                                                                                                                               |
| Rated Instantaneous<br>Short-Circuit Current<br>Setting (I <sub>i</sub> ) | 120...280 A                                                                                                                                                                                                                                                        |
| Rated Insulation Voltage<br>(U <sub>i</sub> )                             | 1000 V                                                                                                                                                                                                                                                             |
| Rated Operational<br>Voltage                                              | 690 V AC<br>500 V DC                                                                                                                                                                                                                                               |
| Rated Service Short-<br>Circuit Breaking<br>Capacity (I <sub>cs</sub> )   | (220 V AC) 150 kA<br>(230 V AC) 150 kA<br>(240 V AC) 150 kA<br>(380 V AC) 120 kA<br>(415 V AC) 120 kA<br>(440 V AC) 100 kA<br>(500 V AC) 60 kA<br>(525 V AC) 36 kA<br>(690 V AC) 15 kA<br>(250 V DC) 2 Poles in Series 85 kA<br>(500 V DC) 3 Poles in Series 85 kA |
| Rated Ultimate Short-<br>Circuit Breaking<br>Capacity (I <sub>cu</sub> )  | (220 V AC) 150 kA<br>(230 V AC) 150 kA<br>(240 V AC) 150 kA<br>(380 V AC) 120 kA<br>(415 V AC) 120 kA<br>(440 V AC) 100 kA<br>(500 V AC) 60 kA<br>(525 V AC) 36 kA<br>(690 V AC) 18 kA<br>(250 V DC) 2 Poles in Series 85 kA<br>(500 V DC) 3 Poles in Series 85 kA |
| Rated Uninterrupted<br>Current (I <sub>u</sub> )                          | 160 A                                                                                                                                                                                                                                                              |
| Rated Voltage (U <sub>r</sub> )                                           | 690 V                                                                                                                                                                                                                                                              |
| Recommended Screw<br>Driver                                               | Main Circuit M6                                                                                                                                                                                                                                                    |
| Release                                                                   | MA                                                                                                                                                                                                                                                                 |
| Release Type                                                              | M                                                                                                                                                                                                                                                                  |
| Short-Circuit<br>Performance Level                                        | L                                                                                                                                                                                                                                                                  |
| Standards                                                                 | IEC60947-2                                                                                                                                                                                                                                                         |
| Sub-type                                                                  | XT2                                                                                                                                                                                                                                                                |

|                          |       |
|--------------------------|-------|
| Terminal Connection Type | Front |
| Terminal Type            | Bolt  |
| Tightening Torque        | 6 N·m |

## Certificates and Declarations

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

## External Classifications and Standards

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| ETIM 8                     | EC000228 - Power circuit-breaker for trafo/generator/installation protection |
| ETIM 9                     | EC000228 - Power circuit-breaker for trafo/generator/installation protection |
| Object Classification Code | Q                                                                            |
| UNSPSC                     | 39120000                                                                     |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm)                   |
| eClass                     | V11.1 : 27370409                                                             |

## Categories

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

