



circuit breaker 3VA6 UL Frame 600 breaking capacity class C 100 kA @ 480 V 3-pole, line protection ETU350, LSI, In=600 A overload protection Ir=240 A...600 A short-circuit protection Isd=1.5...9 x Ir, li=9x In without connection

| Model                                                                                                                      |                             |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                                         | SETRON                      |
| product designation                                                                                                        | Molded-case circuit breaker |
| product designation / according to UL file                                                                                 | CLAE                        |
| design of the product                                                                                                      | System protection           |
| design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes                         |
| design of the overcurrent release                                                                                          | ETU350                      |
| protection function of the overcurrent release                                                                             | LSI                         |
| number of poles                                                                                                            | 3                           |
| General technical data                                                                                                     |                             |
| insulation voltage / rated value                                                                                           | 800 V                       |
| operating voltage / at AC / rated value                                                                                    | 690 V                       |
| power loss [W] / maximum                                                                                                   | 151 W                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole                                | 50.33 W                     |
| mechanical service life (operating cycles) / typical                                                                       | 20 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                                           | 4 000                       |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                                               | 3 500                       |
| electrical endurance (operating cycles) / at 480 V                                                                         | 4 000                       |
| electrical endurance (operating cycles) / at 600 V                                                                         | 3 500                       |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof                      | No                          |
| ground-fault monitoring version                                                                                            | without                     |
| product function                                                                                                           |                             |
| • communication function                                                                                                   | No                          |
| • other measurement function                                                                                               | No                          |
| Net Weight                                                                                                                 | 4.913 kg                    |
| Current                                                                                                                    |                             |
| marking / according to UL 489 / 100%-rated breaker                                                                         | No                          |
| operational current                                                                                                        |                             |
| • at 40 °C                                                                                                                 | 600 A                       |
| • at 45 °C                                                                                                                 | 600 A                       |
| • at 50 °C                                                                                                                 | 593 A                       |
| • at 55 °C                                                                                                                 | 575 A                       |
| • at 60 °C                                                                                                                 | 557 A                       |
| • at 65 °C                                                                                                                 | 538 A                       |

|                                                                                                                   |                    |
|-------------------------------------------------------------------------------------------------------------------|--------------------|
| • at 70 °C                                                                                                        | 520 A              |
| <b>Switching capacity according to IEC 60947</b>                                                                  |                    |
| switching capacity class of the circuit breaker                                                                   | C                  |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                                                |                    |
| • at 240 V                                                                                                        | 150 kA             |
| • at 415 V                                                                                                        | 110 kA             |
| • at 690 V                                                                                                        | 6 kA               |
| operating short-circuit current breaking capacity (I <sub>cs</sub> )                                              |                    |
| • at 240 V                                                                                                        | 150 kA             |
| • at 415 V                                                                                                        | 110 kA             |
| • at 690 V                                                                                                        | 6 kA               |
| short-circuit current making capacity (I <sub>cm</sub> )                                                          |                    |
| • at 240 V                                                                                                        | 330 kA             |
| • at 415 V                                                                                                        | 242 kA             |
| • at 690 V                                                                                                        | 9 kA               |
| <b>Switching capacity according to UL 489</b>                                                                     |                    |
| current breaking capacity                                                                                         |                    |
| • at 240 V                                                                                                        | 200 kA             |
| • at 480 V                                                                                                        | 100 kA             |
| • at 600 V                                                                                                        | 35 kA              |
| <b>Adjustable parameters</b>                                                                                      |                    |
| adjustable response value setting current (I <sub>r</sub> ) / of the L-trip / with I <sub>2t</sub> characteristic |                    |
| • minimum                                                                                                         | 250 A              |
| • maximum                                                                                                         | 600 A              |
| adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic     |                    |
| • minimum                                                                                                         | 0.5 s              |
| • maximum                                                                                                         | 15 s               |
| adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>0t</sub> characteristic    |                    |
| • minimum                                                                                                         | 900 A              |
| • maximum                                                                                                         | 5 400 A            |
| adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>2t</sub> characteristic    |                    |
| • minimum                                                                                                         | 900 A              |
| • maximum                                                                                                         | 5 400 A            |
| adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>2t</sub> characteristic    |                    |
| • minimum                                                                                                         | 0.0001 s           |
| • maximum                                                                                                         | 0.4 s              |
| adjustable response value setting current (I <sub>i</sub> ) / for I-tripping                                      |                    |
| • minimum                                                                                                         | 5 400 A            |
| • maximum                                                                                                         | 5 400 A            |
| product function / grounding protection                                                                           | No                 |
| <b>Mechanical Design</b>                                                                                          |                    |
| product component                                                                                                 |                    |
| • undervoltage release                                                                                            | No                 |
| • voltage trigger                                                                                                 | No                 |
| • trip indicator                                                                                                  | No                 |
| height [in]                                                                                                       | 9.76 in            |
| height                                                                                                            | 248 mm             |
| width [in]                                                                                                        | 5.43 in            |
| width                                                                                                             | 138 mm             |
| depth [in]                                                                                                        | 4.33 in            |
| depth                                                                                                             | 110 mm             |
| <b>Connections</b>                                                                                                |                    |
| arrangement of electrical connectors / for main current circuit                                                   | Without connection |
| type of electrical connection / for main current circuit                                                          | Without            |
| <b>Auxiliary circuit</b>                                                                                          |                    |

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| number of CO contacts / for auxiliary contacts           | 0               |
| <b>Accessories</b>                                       |                 |
| product extension / optional / motor drive               | Yes             |
| <b>Environmental conditions</b>                          |                 |
| protection class IP / on the front                       | IP40            |
| ambient temperature                                      |                 |
| • during operation / minimum                             | -25 °C          |
| • during operation / maximum                             | 70 °C           |
| • during storage / minimum                               | -40 °C          |
| • during storage / maximum                               | 80 °C           |
| <b>Environmental footprint</b>                           |                 |
| Environmental Product Declaration(EPD)                   | Yes             |
| global warming potential [CO2 eq] / total                | 495 kg          |
| global warming potential [CO2 eq] / during manufacturing | 28.7 kg         |
| global warming potential [CO2 eq] / during operation     | 470 kg          |
| global warming potential [CO2 eq] / after end of life    | -4.07 kg        |
| Siemens eco profile (SEP)                                | Siemens EcoTech |
| <b>reference code / according to IEC 81346-2</b>         | Q               |
| <b>Approvals / Certificates</b>                          |                 |
| <b>General Product Approval</b>                          |                 |



[Miscellaneous](#)



[Miscellaneous](#)

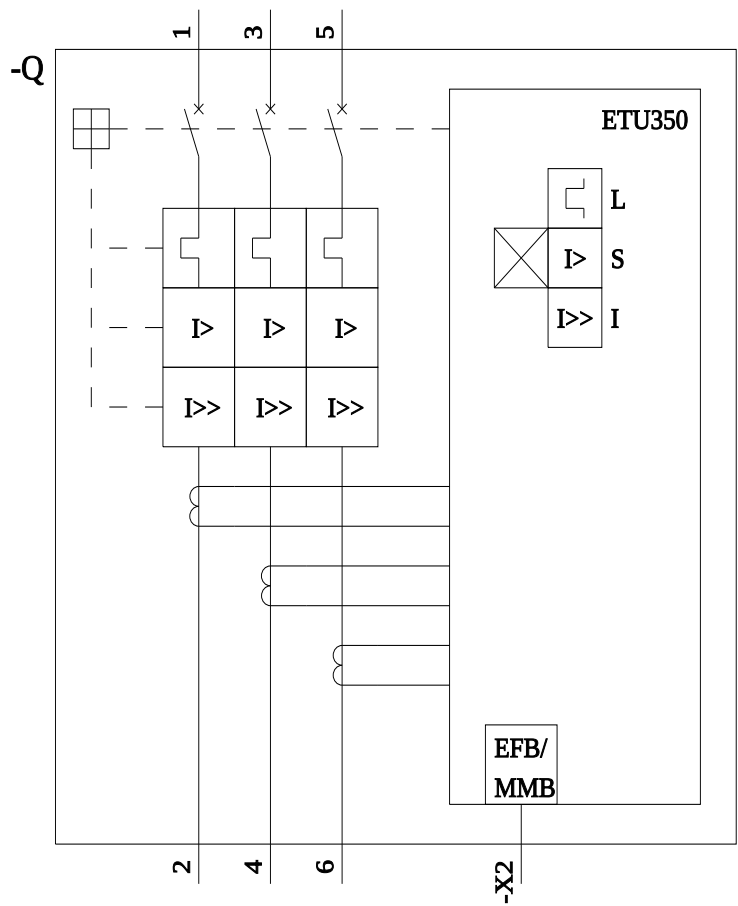
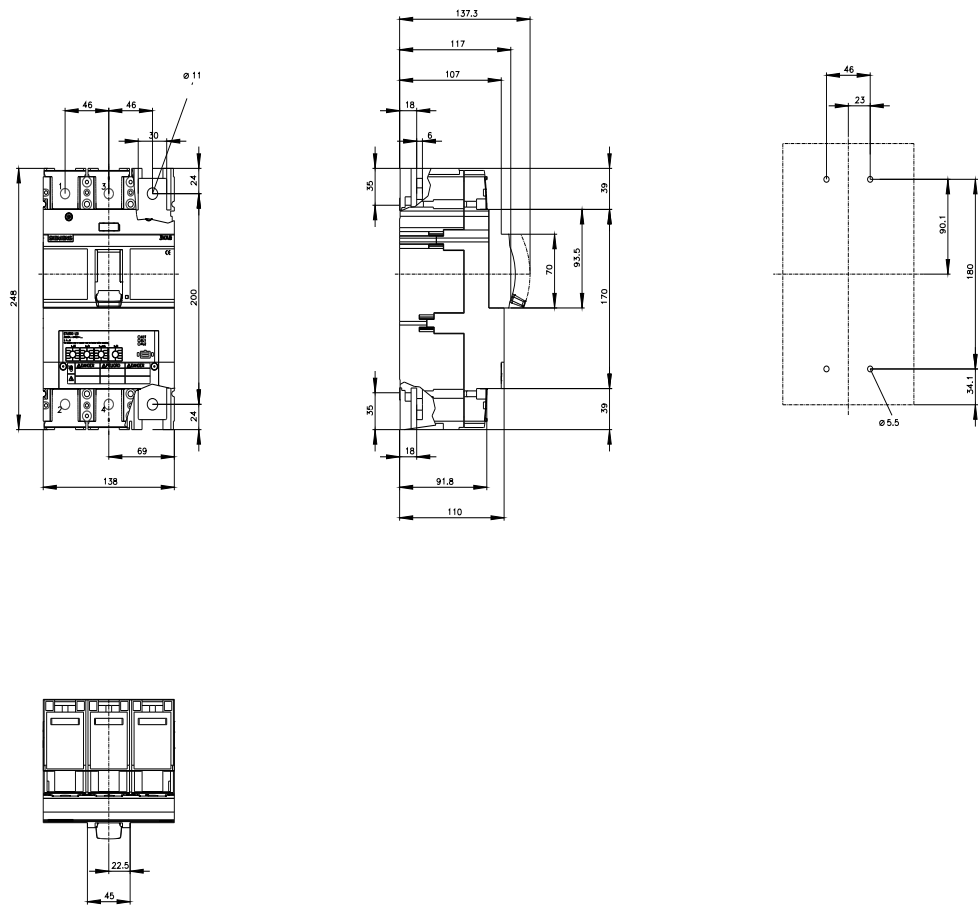


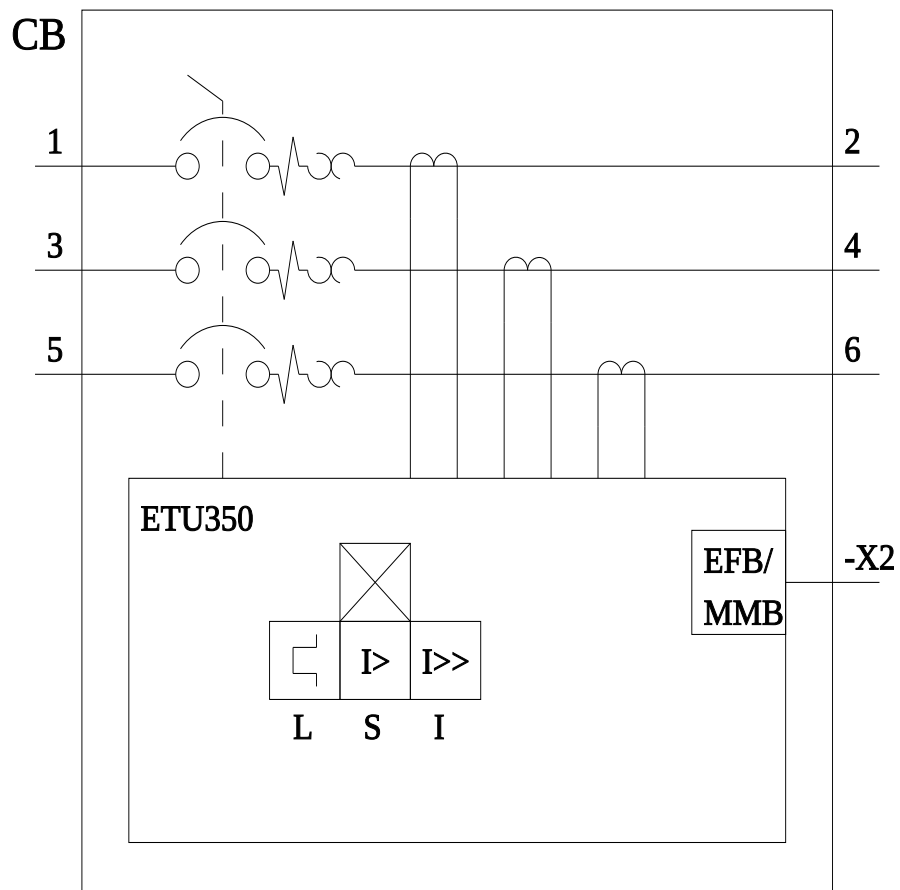
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| General Product Approval                                                            | EMV                                                                                 | Test Certificates                                                                     |
|  |  |    |
| <a href="#">Confirmation</a>                                                        | EG-Konf.                                                                            |  |
|                                                                                     |                                                                                     | <a href="#">Type Test Certificates/Test Report</a>                                    |

|                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Maritime application                                                                | other                                                                                 |
|  |    |
|  |    |
|                                                                                     |  |
|                                                                                     | <a href="#">Miscellaneous</a>                                                         |

|                              |                                       |                                                                                       |
|------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| other                        | Dangerous goods                       | Environment                                                                           |
| <a href="#">Confirmation</a> | <a href="#">Transport Information</a> | <a href="#">Environmental Confirmations</a>                                           |
|                              |                                       |    |
|                              |                                       |  |

|                                                                                                                                                                                                                                                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Further information</b>                                                                                                                                                                                                                                                   |  |
| Information on the packaging<br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>                                                                                                      |  |
| Information for data generation and storage<br><a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>                                                                                       |  |
| Information- and Downloadcenter (Catalogs, Brochures,...)<br><a href="https://www.siemens.com/lowvoltage/catalogs">https://www.siemens.com/lowvoltage/catalogs</a>                                                                                                           |  |
| Industry Mall (Online ordering system)<br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6460-7HN31-0AA0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6460-7HN31-0AA0</a>                                            |  |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...)<br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3VA6460-7HN31-0AA0">https://support.industry.siemens.com/cs/ww/en/ps/3VA6460-7HN31-0AA0</a>                                                  |  |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)<br><a href="https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6460-7HN31-0AA0">https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6460-7HN31-0AA0</a> |  |
| CAx-Online-Generator<br><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>                                                                                                                                                                                |  |





last modified:

5/2/2025

