

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class E Icu=200 kA @ 415 V 3-pole, motor protection ETU350M, LSI, In=63 A overload protection Ir=25 A ... 63 A short-circuit protection Isd=3...15xIr, li=15xIn terminal connection



| Model                                                                                                  |                             |
|--------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                     | SENTRON                     |
| product designation                                                                                    | Molded case circuit breaker |
| design of the product                                                                                  | Motor protection            |
| design of the overcurrent release                                                                      | ETU350M                     |
| 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                       |
| operating power / at AC-3 / at 400 V                                                                   | 30 000 W                    |
| operating power / at AC-3 / at 230 V                                                                   | 18 500 W                    |
| power loss [W] / maximum                                                                               | 3.1 W                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole            | 1.03 W                      |
| mechanical service life (operating cycles) / typical                                                   | 25 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                       | 14 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                           | 9 800                       |
| electrical endurance (operating cycles) / at AC-3 / at 380/415 V                                       | 7 500                       |
| product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof | No                          |
| ground-fault monitoring version                                                                        | Without                     |
| product function                                                                                       |                             |
| • communication function                                                                               | No                          |
| • phase failure detection                                                                              | Yes                         |
| • other measurement function                                                                           | No                          |
| Net Weight                                                                                             | 2.5 kg                      |
| Current                                                                                                |                             |
| operational current                                                                                    |                             |
| • at 40 °C                                                                                             | 63 A                        |
| • at 45 °C                                                                                             | 63 A                        |
| • at 50 °C                                                                                             | 63 A                        |
| • at 55 °C                                                                                             | 63 A                        |
| • at 60 °C                                                                                             | 63 A                        |
| • at 65 °C                                                                                             | 63 A                        |
| • at 70 °C                                                                                             | 63 A                        |

|                                                                                                                   |                                |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Switching capacity according to IEC 60947</b>                                                                  |                                |
| switching capacity class of the circuit breaker                                                                   | E                              |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                                                |                                |
| • at 415 V                                                                                                        | 200 kA                         |
| • at 690 V                                                                                                        | 85 kA                          |
| operating short-circuit current breaking capacity (I <sub>cs</sub> )                                              |                                |
| • at 415 V                                                                                                        | 200 kA                         |
| • at 690 V                                                                                                        | 65 kA                          |
| short-circuit current making capacity (I <sub>cm</sub> )                                                          |                                |
| • at 415 V                                                                                                        | 440 kA                         |
| • at 690 V                                                                                                        | 187 kA                         |
| <b>Adjustable parameters</b>                                                                                      |                                |
| product feature / for L-tripping / can be switched on/off                                                         | No                             |
| adjustable response value setting current (I <sub>r</sub> ) / of the L-trip / with I <sub>2t</sub> characteristic |                                |
| • minimum                                                                                                         | 25 A                           |
| • maximum                                                                                                         | 63 A                           |
| adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic     |                                |
| • minimum                                                                                                         | 4 s                            |
| • maximum                                                                                                         | 17 s                           |
| adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>0t</sub> characteristic    |                                |
| • minimum                                                                                                         | 75 A                           |
| • maximum                                                                                                         | 945 A                          |
| adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub> characteristic    |                                |
| • minimum                                                                                                         | 0.03 s                         |
| • maximum                                                                                                         | 0.03 s                         |
| adjustable response value setting current (I <sub>i</sub> ) / for I-tripping                                      |                                |
| • minimum                                                                                                         | 945 A                          |
| • maximum                                                                                                         | 945 A                          |
| adjustable setting current (I <sub>nN</sub> ) / for N-tripping                                                    |                                |
| • minimum                                                                                                         | 0 A                            |
| • maximum                                                                                                         | 0 A                            |
| product function / grounding protection                                                                           | No                             |
| adjustable trip class (T <sub>c</sub> CLASS)                                                                      | 10A, 10E, 20E                  |
| tripping time (T <sub>p</sub> ) / with adjustable trip class (T <sub>c</sub> CLASS)                               |                                |
| • minimum                                                                                                         | 4 s                            |
| • maximum                                                                                                         | 17 s                           |
| <b>Mechanical Design</b>                                                                                          |                                |
| product component                                                                                                 |                                |
| • undervoltage release                                                                                            | No                             |
| • voltage trigger                                                                                                 | No                             |
| • trip indicator                                                                                                  | No                             |
| height [in]                                                                                                       | 7.13 in                        |
| height                                                                                                            | 181 mm                         |
| width [in]                                                                                                        | 4.13 in                        |
| type of connectable conductor cross-sections / of the round conductor terminal / stranded                         | 1 x (6 - 120 mm <sup>2</sup> ) |
| width                                                                                                             | 105 mm                         |
| depth [in]                                                                                                        | 3.39 in                        |
| depth                                                                                                             | 86 mm                          |
| <b>Connections</b>                                                                                                |                                |
| arrangement of electrical connectors / for main current circuit                                                   | Front terminal                 |
| type of electrical connection / for main current circuit                                                          | double-sided box terminal      |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)                                | tin                            |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)                             | tin                            |
| <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>                           |                 |
| global warming potential [CO2 eq] / total                | 61.814 kg       |
| global warming potential [CO2 eq] / during manufacturing | 14.6 kg         |
| global warming potential [CO2 eq] / during operation     | 48.9 kg         |
| global warming potential [CO2 eq] / after end of life    | -2.2 kg         |
| Siemens Eco Profile (SEP)                                | Siemens EcoTech |
| reference code / according to IEC 81346-2                | Q               |
| <b>Approvals / Certificates</b>                          |                 |
| <b>General Product Approval</b>                          |                 |



[Miscellaneous](#)



|                          |     |                   |                      |
|--------------------------|-----|-------------------|----------------------|
| General Product Approval | EMV | Test Certificates | Maritime application |
|--------------------------|-----|-------------------|----------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Miscellaneous](#)



|                      |       |                 |             |
|----------------------|-------|-----------------|-------------|
| Maritime application | other | Dangerous goods | Environment |
|----------------------|-------|-----------------|-------------|



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|             |
|-------------|
| Environment |
|-------------|

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[Environmental Confirmations](#)

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#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2163-0MN36-0AA0>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-0MN36-0AA0>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2163-0MN36-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-0MN36-0AA0)

##### CAX-Online-Generator

<https://www.siemens.com/cax>

##### Tender specifications





