



circuit breaker 3VA2 IEC Frame 160 breaking capacity class M Icu=55 kA @ 415 V 3-pole, motor protection ETU350M, LSI, In=100 A overload protection Ir=40 A...100 A short-circuit protection Isd=3...15 x Ir, li=15 x In nut keeper kit

| 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   | 55 000 W                    |
| operating power / at AC-3 / at 230 V   | 30 000 W                    |
| power loss [W] / maximum   | 10 W                        |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole            | 3.33 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                                       | 5 000                       |
| 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   | 2.098 kg                    |
| Current  |                             |
| operational current  |                             |
| • at 40 °C   | 100 A                       |
| • at 45 °C   | 100 A                       |
| • at 50 °C   | 100 A                       |
| • at 55 °C   | 100 A                       |
| • at 60 °C   | 100 A                       |
| • at 65 °C   | 100 A                       |
| • at 70 °C   | 100 A                       |

### Switching capacity according to IEC 60947

|  |         |
|--|---------|
| switching capacity class of the circuit breaker                      | E       |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )   |         |
| • at 240 V   | 85 kA   |
| • at 415 V   | 55 kA   |
| • at 440 V   | 55 kA   |
| • at 500 V   | 36 kA   |
| • at 690 V   | 3 kA    |
| operating short-circuit current breaking capacity (I <sub>cs</sub> ) |         |
| • at 240 V   | 85 kA   |
| • at 415 V   | 55 kA   |
| • at 440 V   | 55 kA   |
| • at 500 V   | 36 kA   |
| • at 690 V   | 2.5 kA  |
| short-circuit current making capacity (I <sub>cm</sub> )             |         |
| • at 240 V   | 187 kA  |
| • at 415 V   | 121 kA  |
| • at 440 V   | 121 kA  |
| • at 500 V   | 75.5 kA |
| • at 690 V   | 3.7 kA  |

### Adjustable parameters

|   |               |
|---|---------------|
| 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   | 40 A          |
| • maximum   | 100 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   | 120 A         |
| • maximum   | 1 500 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   | 1 500 A       |
| • maximum   | 1 500 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          |

### Mechanical Design

|                        |         |
|------------------------|---------|
| product component      |         |
| • undervoltage release | No      |
| • voltage trigger      | No      |
| • trip indicator       | No      |
| height [in]            | 7.13 in |
| height                 | 181 mm  |
| width [in]             | 4.13 in |
| width                  | 105 mm  |
| depth [in]             | 3.39 in |
| depth                  | 86 mm   |

| Connections   |                              |
|---|------------------------------|
| arrangement of electrical connectors / for main current circuit                           | Front terminal               |
| type of electrical connection / for main current circuit                                  | on both sides nut keeper kit |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 13 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 25 x 8 mm                    |
| 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                          |

| Auxiliary circuit                              |   |
|--|---|
| number of CO contacts / for auxiliary contacts | 0 |

| Accessories                                |     |
|--|-----|
| product extension / optional / motor drive | Yes |

| Environmental conditions           |        |
|------------------------------------|--------|
| 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  |

| Environmental footprint                                  |                 |
|--|-----------------|
| 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               |

| Approvals / Certificates |  |
|--------------------------|--|
|--------------------------|--|

**General Product Approval**



[Miscellaneous](#)



[Confirmation](#)

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



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

| Maritime application | other |
|----------------------|-------|
|----------------------|-------|



[CCS \(China Classification Society\)](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Confirmation](#)

| other | Dangerous goods | Environment |
|-------|-----------------|-------------|
|-------|-----------------|-------------|



[Transport Information](#)

[Environmental Confirmations](#)



[Environmental Confirmations](#)

**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=3VA2110-5MN32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2110-5MN32-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-5MN32-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-5MN32-0AA0)

CAX-Online-Generator

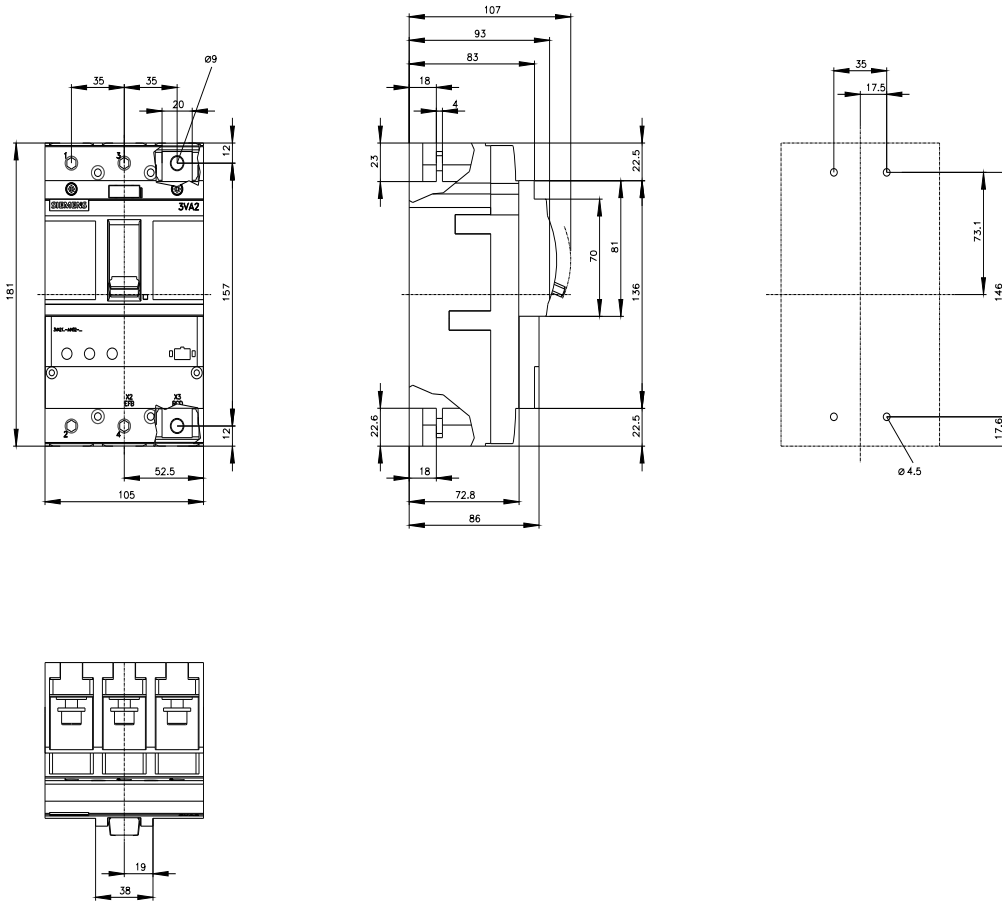
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)





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