



circuit breaker 3VA2 IEC Frame 160 breaking capacity class C  $I_{cu}=110 \text{ kA @ 415 V}$  3-pole, line protection ETU330, LIG,  $I_n=100 \text{ A}$  overload protection  $I_r=40 \text{ A} \dots 100 \text{ A}$  short-circuit protection  $I_i=1.5 \dots 12 \times I_n$  ground-fault protection  $I_g=0.2 \dots 1 \times I_n$ ,  $t_g=0.1/0.3 \text{ s}$  terminal connection

| Model                                                                                                 |                                         |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------|
| product brand name                                                                                    | SENTRON                                 |
| product designation                                                                                   | Molded case circuit breaker             |
| design of the product                                                                                 | Line protection                         |
| design of the overcurrent release                                                                     | ETU330                                  |
| protection function of the overcurrent release                                                        | LIG                                     |
| 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                                                                              | 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                                   |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No                                      |
| ground-fault monitoring version                                                                       | Summation current formation L-conductor |
| product function                                                                                      |                                         |
| • communication function                                                                              | No                                      |
| • other measurement function                                                                          | No                                      |
| Net Weight                                                                                            | 2.5 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                                                       | C                                       |
| maximum short-circuit current breaking capacity ( $I_{cu}$ )                                          |                                         |
| • at 240 V                                                                                            | 150 kA                                  |

|                                                                                                                                                                                                      |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                                             | 110 kA<br>110 kA<br>85 kA<br>3 kA              |
| operating short-circuit current breaking capacity (Ics) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul> | 150 kA<br>110 kA<br>110 kA<br>85 kA<br>2.5 kA  |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>             | 330 kA<br>242 kA<br>242 kA<br>187 kA<br>3.7 kA |
| <b>Adjustable parameters</b>                                                                                                                                                                         |                                                |
| product feature / for L-tripping / can be switched on/off                                                                                                                                            | No                                             |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                              | 40 A<br>100 A                                  |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                  | 0.5 s<br>17 s                                  |
| adjustable response value setting current (Ii) / for I-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                       | 150 A<br>1 200 A                               |
| adjustable current response value current / for G-tripping / with standard characteristic <ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul>              | 20 A<br>100 A                                  |
| adjustable response value delay time (tg) / for G-tripping / with I0t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                  | 0.1 s<br>0.3 s                                 |
| adjustable setting current (InN) / for N-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                     | 0 A<br>0 A                                     |
| product function / grounding protection                                                                                                                                                              | Yes                                            |
| <b>Mechanical Design</b>                                                                                                                                                                             |                                                |
| product component <ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• voltage trigger</li> <li>• trip indicator</li> </ul>                                                      | No<br>No<br>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 mm²)                              |
| 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                                            |

| 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



[Confirmation](#)



[Miscellaneous](#)



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



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Miscellaneous](#)



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



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



[Confirmation](#)

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

[Miscellaneous](#)

[Transport Information](#)



Siemens EcoTech



[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=3VA2110-7HM36-0AA0>

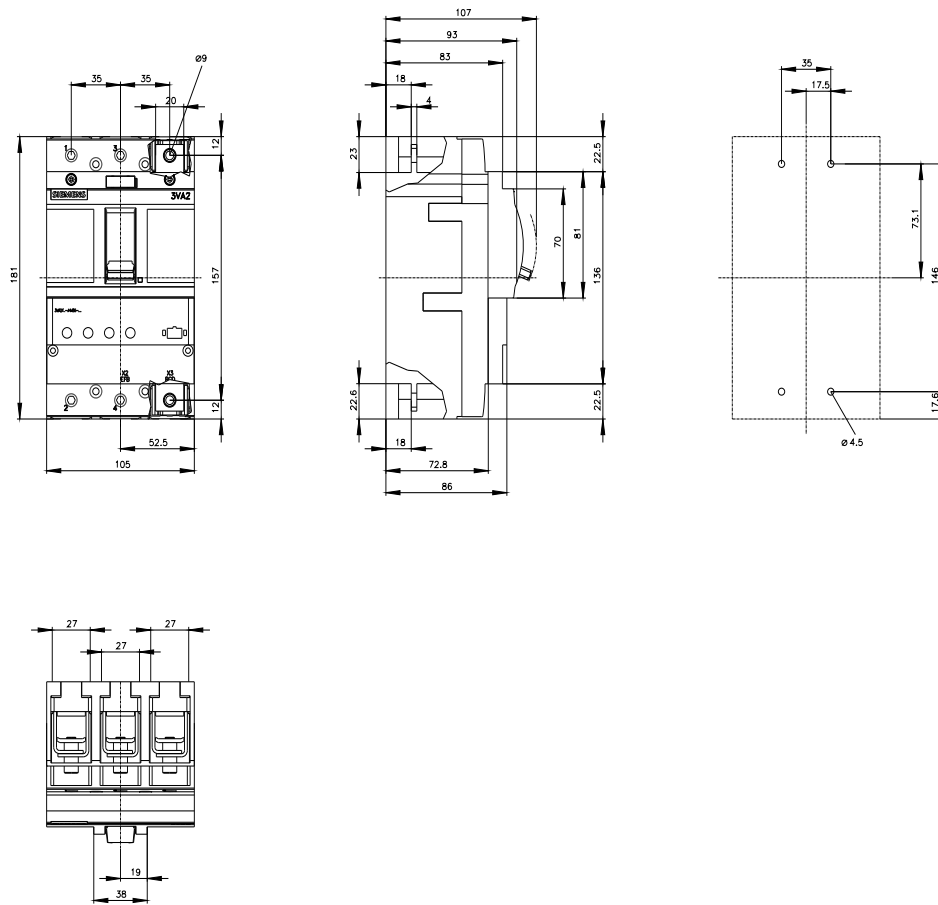
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

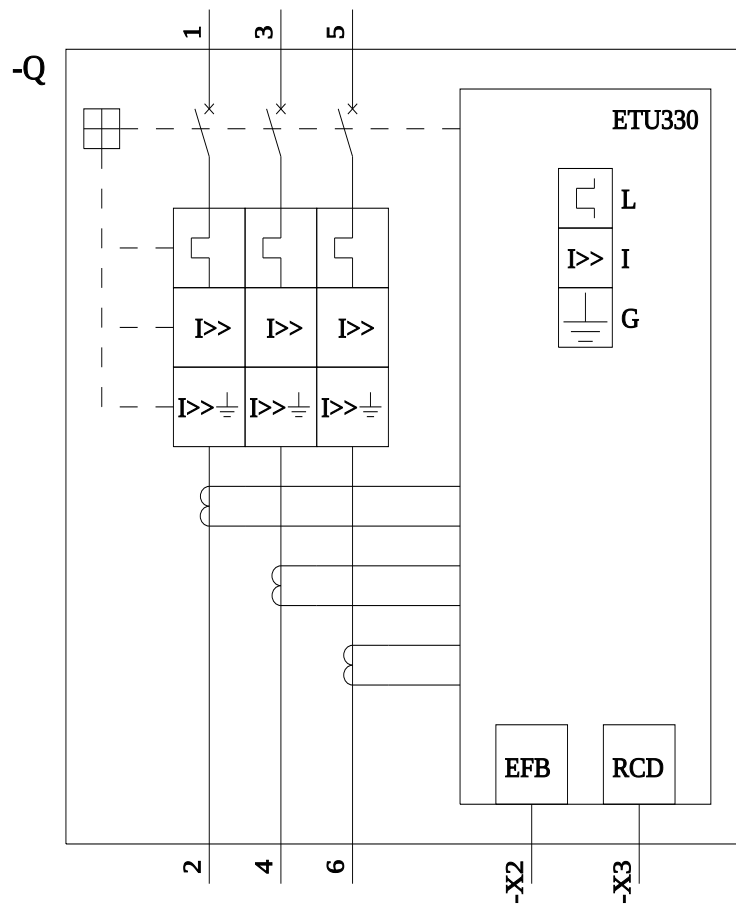
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2110-7HM36-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-7HM36-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-7HM36-0AA0)

##### CAX-Online-Generator





last modified:

4/3/2025

