



circuit breaker 3VA2 IEC frame 160 breaking capacity class H  $I_{cu}=85\text{kA}$  @ 415V 3-pole, line protection ETU860, LSIG,  $I_n=100\text{A}$  overload protection  $I_r=40\text{A} \dots 100\text{A}$  short-circuit protection  $I_{sd}=0.6 \dots 10 \times I_n$ ,  $I_i=1.5 \dots 12 \times I_n$  N conductor protection optionally with external current transformer, up to 160% gr.-fault prot., can be sw. off  $I_g=0.2 \dots 1 \times I_n$ ,  $t_g=0.05-0.8\text{s}$  nut keeper kit

| Model                                                                                          |                                         |
|------------------------------------------------------------------------------------------------|-----------------------------------------|
| product brand name                                                                             | SETRON                                  |
| product designation                                                                            | Molded case circuit breaker             |
| Product version                                                                                | Line protection                         |
| design of the overcurrent release                                                              | ETU860                                  |
| protection function of the overcurrent release                                                 | LSIG                                    |
| number of poles                                                                                | 3                                       |
| General technical data                                                                         |                                         |
| Tension assignée d'isolement $U_i$                                                             | 800 V                                   |
| power loss [W] / maximum                                                                       | 10 W                                    |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 3.33 W                                  |
| mechanical service life (switching cycles) / typical                                           | 20 000                                  |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 12 000                                  |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 8 000                                   |
| Neutral conductors / upgradeable/retrofitable                                                  | Yes                                     |
| ground-fault monitoring version                                                                | Summation current formation L-conductor |
| product function                                                                               |                                         |
| • communication function                                                                       | Yes                                     |
| • other measurement function                                                                   | Yes                                     |
| net weight                                                                                     | 2.3 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                                                | H                                       |
| breaking capacity maximum short-circuit current ( $I_{cu}$ )                                   |                                         |
| • at 240 V                                                                                     | 110 kA                                  |
| • at 415 V                                                                                     | 85 kA                                   |
| • at 440 V                                                                                     | 85 kA                                   |

|                                                                                                                                                                                                      |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                                                                                     | 55 kA<br>2.5 kA                                |
| breaking capacity operating short-circuit current (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> | 110 kA<br>85 kA<br>85 kA<br>55 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>             | 242 kA<br>187 kA<br>187 kA<br>121 kA<br>3.8 kA |
| <b>Adjustable parameters</b>                                                                                                                                                                         |                                                |
| Adjustable response value current / Ig min.                                                                                                                                                          | 40 A                                           |
| Adjustable response value current / Ig min.                                                                                                                                                          | 100 A                                          |
| Adjustable response value current / Ig min.                                                                                                                                                          | 0.5                                            |
| Adjustable response value current / Ig min.                                                                                                                                                          | 25                                             |
| Adjustable response value current / Ig min.                                                                                                                                                          | 60 A                                           |
| Adjustable response value current / Ig min.                                                                                                                                                          | 1 000 A                                        |
| Adjustable response value current / Ig min.                                                                                                                                                          | 0.05 s                                         |
| Adjustable response value current / Ig min.                                                                                                                                                          | 0.5 s                                          |
| Adjustable response value current / Ig min.                                                                                                                                                          | 0.05 s                                         |
| Adjustable response value current / Ig min.                                                                                                                                                          | 0.5 s                                          |
| Adjustable response value current / Ii min.                                                                                                                                                          | 150 A                                          |
| Adjustable response value current / Ii max.                                                                                                                                                          | 1 200 A                                        |
| Ground fault protection / tripping switchable / I2t=ON/OFF                                                                                                                                           | Yes                                            |
| Adjustable response value current / Ig min.                                                                                                                                                          | 20 A                                           |
| Adjustable response value current / Ig max.                                                                                                                                                          | 100 A                                          |
| Adjustable response value current / tg min.                                                                                                                                                          | 0.05 s                                         |
| Adjustable response value current / Ig min.                                                                                                                                                          | 0.8 s                                          |
| Adjustable response value current / for G-tripping / with I2t characteristic / min.                                                                                                                  | 0.2 A                                          |
| Adjustable response value current / for G-tripping / with I2t characteristic / max.                                                                                                                  | 1 A                                            |
| <b>Mechanical Design</b>                                                                                                                                                                             |                                                |
| height [in]                                                                                                                                                                                          | 7.1 in                                         |
| Height                                                                                                                                                                                               | 181 mm                                         |
| width [in]                                                                                                                                                                                           | 4.1 in                                         |
| Width                                                                                                                                                                                                | 105 mm                                         |
| depth [in]                                                                                                                                                                                           | 3.4 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                                                                                                                                             | on both sides nut keeper kit                   |
| Type of connectable conductor cross-section, connection screw, width x thickness , min.                                                                                                              | 13 x 1 mm                                      |
| Type of connectable conductor cross-section, connection screw, width x thickness , max.                                                                                                              | 25 x 8.5 mm                                    |
| <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 <ul style="list-style-type: none"> <li>• during operation / minimum</li> </ul>                                                                                                   | -25 °C                                         |

- during operation / maximum 70 °C
- during storage / minimum -40 °C
- during storage / maximum 80 °C

## Certificates

reference code / acc. to IEC 81346-2

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### General Product Approval

EMC



[Miscellaneous](#)



### Declaration of Conformity

### Test Certificates

### Shipping Approval



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)



### Shipping Approval

### other



[CCS / China Classification Society](#)

[Manufacturer Declaration](#)

[Miscellaneous](#)

## Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2110-6KQ32-0AA0>

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

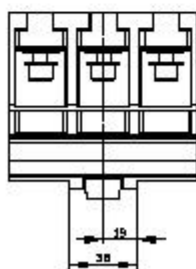
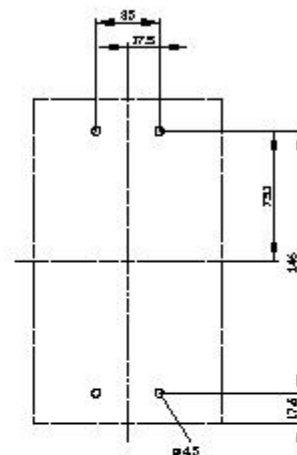
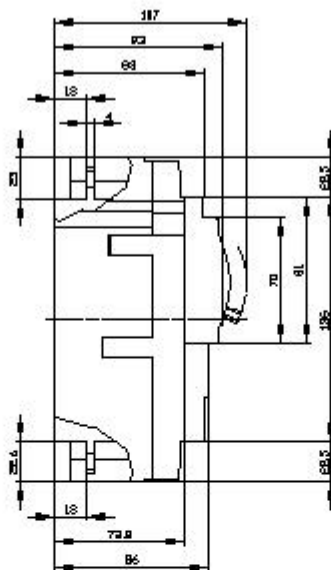
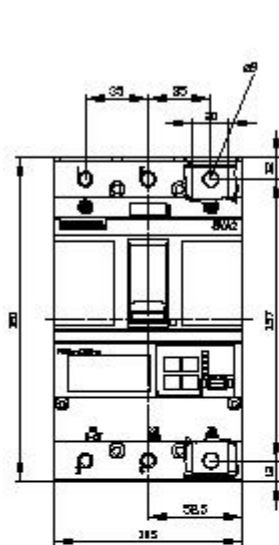
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2110-6KQ32-0AA0>

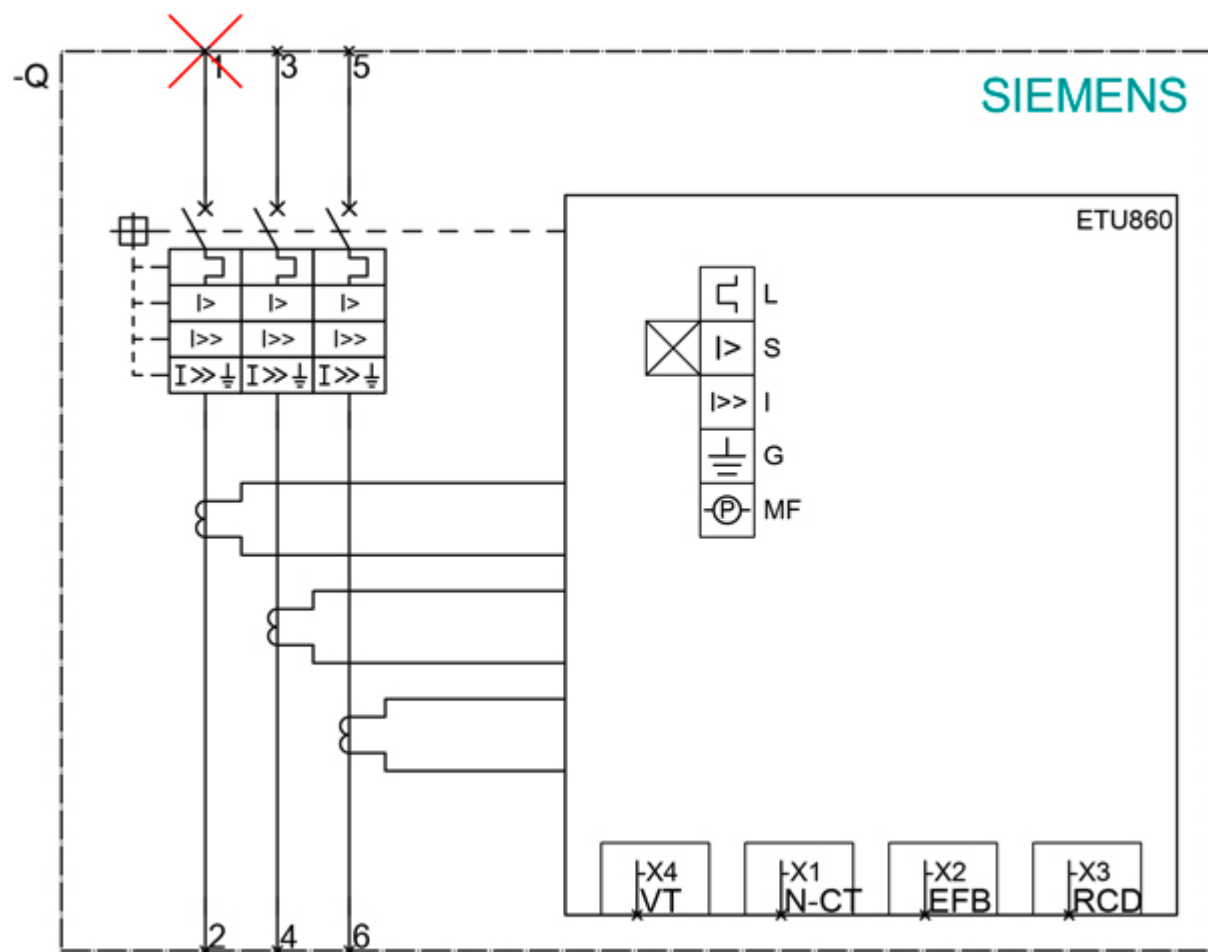
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-6KQ32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-6KQ32-0AA0)

Tender specifications

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





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