



circuit breaker 3VA2 IEC Frame 1000 breaking capacity class C Icu=110 kA @ 415 V 3-pole, motor protection ETU860M, LSIG, In=800 A overload protection Ir=320 A...800 A short-circuit protection I<sub>sd</sub>=1.2...15 x I<sub>n</sub>, I<sub>i</sub>=3...15 x I<sub>n</sub> ground-fault protection, can be switched off I<sub>g</sub>=0.2...1 x I<sub>n</sub>, t<sub>g</sub>=0.05-0.8s 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                                                                     | ETU860M                                 |
| protection function of the overcurrent release                                                        | LSIG                                    |
| 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                                                                  | 355 000 W                               |
| operating power / at AC-3 / at 230 V                                                                  | 200 000 W                               |
| power loss [W] / maximum                                                                              | 210 W                                   |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 70 W                                    |
| mechanical service life (operating cycles) / typical                                                  | 10 000                                  |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 4 600                                   |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 3 200                                   |
| 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                                                                              | Yes                                     |
| • phase failure detection                                                                             | Yes                                     |
| • other measurement function                                                                          | Yes                                     |
| Net Weight                                                                                            | 11 340 g                                |
| Current                                                                                               |                                         |
| operational current                                                                                   |                                         |
| • at 40 °C                                                                                            | 800 A                                   |
| • at 45 °C                                                                                            | 800 A                                   |
| • at 50 °C                                                                                            | 800 A                                   |
| • at 55 °C                                                                                            | 800 A                                   |
| • at 60 °C                                                                                            | 800 A                                   |
| • at 65 °C                                                                                            | 767 A                                   |
| • at 70 °C                                                                                            | 703 A                                   |
| Switching capacity according to IEC 60947                                                             |                                         |
| switching capacity class of the circuit breaker                                                       | C                                       |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                                    |                                         |
| • at 240 V                                                                                            | 200 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>35 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>85 kA<br>70 kA<br>65 kA<br>19 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>             | 440 kA<br>242 kA<br>242 kA<br>187 kA<br>73.5 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>                              | 320 A<br>800 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>                                  | 3 s<br>30 s                                     |
| adjustable response value setting current (Isd) / of S-trip / with I0t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 960 A<br>12 000 A                               |
| adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 0.03 s<br>0.03 s                                |
| adjustable response value setting current (Ii) / for I-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                       | 2 400 A<br>12 000 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>              | 160 A<br>800 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>                                  | 0.05 s<br>0.8 s                                 |
| adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                             | 160 A<br>800 A                                  |
| adjustable response value delay time (tg) / for G-tripping / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                  | 0.05 s<br>0.8 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                                             |
| adjustable trip class (Tc CLASS)                                                                                                                                                                     | 10A, 10/10E, 20/ 20E, 30                        |
| tripping time (Tp) / with adjustable trip class (Tc CLASS) <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                            | 3 s<br>15 s                                     |

| Mechanical Design      |         |
|------------------------|---------|
| product component      |         |
| • undervoltage release | No      |
| • voltage trigger      | No      |
| • trip indicator       | No      |
| height [in]            | 12.6 in |
| height                 | 320 mm  |
| width [in]             | 8.27 in |
| width                  | 210 mm  |
| depth [in]             | 4.72 in |
| depth                  | 120 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 | 20 x 4 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 50 x 28 mm                   |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)        | silver                       |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)     | silver                       |

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

| Accessories                                |    |
|--------------------------------------------|----|
| product extension / optional / motor drive | No |

| 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  |
| reference code / according to IEC 81346-2 | Q      |

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

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|



[Miscellaneous](#)



| Test Certificates | Maritime application |
|-------------------|----------------------|
|-------------------|----------------------|

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



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



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

[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

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

[Environmental Conformations](#)

[Environmental Conformations](#)

## 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=3VA2580-7MQ32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2580-7MQ32-0AA0>

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

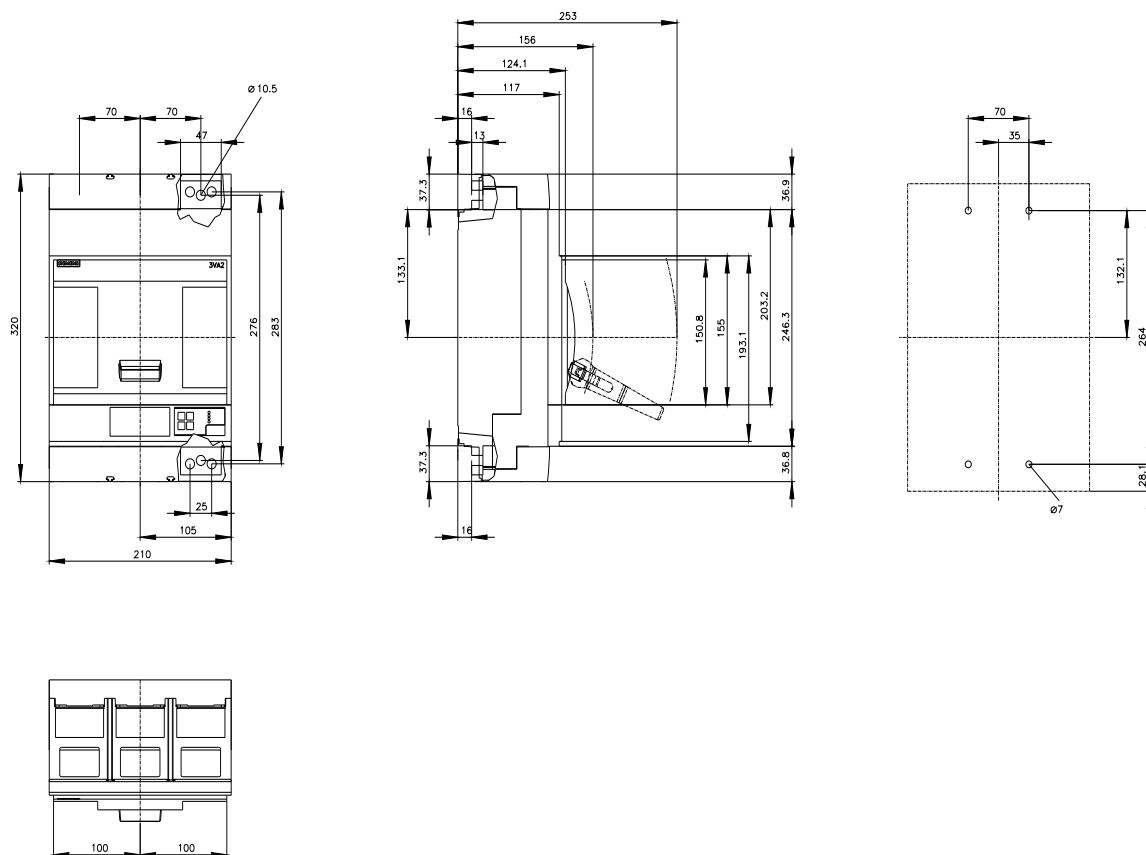
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2580-7MQ32-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2580-7MQ32-0AA0)

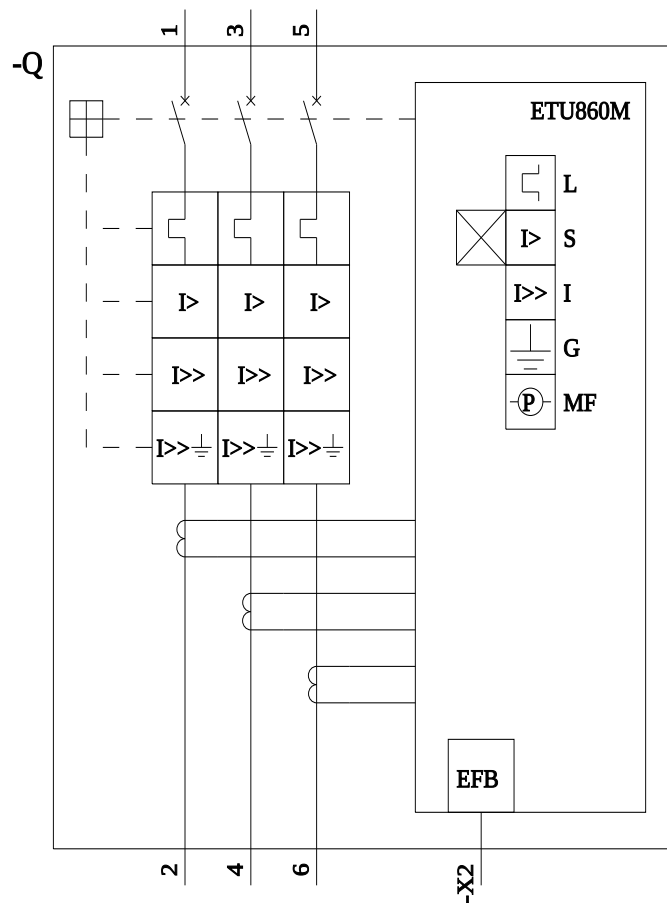
### CAX-Online-Generator

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

### Tender specifications

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





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