



circuit breaker 3VA2 IEC Frame 400 breaking capacity class L Icu=150 kA @ 415 V 4-pole, line protection ETU560, LSIG, In=400 A overload protection Ir=160 A...400 A short-circuit protection Isd=0.6..10x In, li=1.5..10x In neutral conductor protection adjustable (OFF, up to 100%) ground-fault protection, can be switched off Ig=0.2...1 x In= tg=0.05-0.8s nut keeper kit

| Model                                                                                                 |                                             |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------|
| product brand name                                                                                    | SENTRON                                     |
| product designation                                                                                   | Molded case circuit breaker                 |
| design of the product                                                                                 | Line protection                             |
| design of the overcurrent release                                                                     | ETU560                                      |
| protection function of the overcurrent release                                                        | LSIG                                        |
| number of poles                                                                                       | 4                                           |
| General technical data                                                                                |                                             |
| insulation voltage / rated value                                                                      | 800 V                                       |
| operating voltage / at AC / rated value                                                               | 690 V                                       |
| power loss [W] / maximum                                                                              | 96 W                                        |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 32 W                                        |
| mechanical service life (operating cycles) / typical                                                  | 20 000                                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 6 000                                       |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 4 200                                       |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No                                          |
| ground-fault monitoring version                                                                       | Summation current formation L + N conductor |
| product function                                                                                      |                                             |
| • communication function                                                                              | Yes                                         |
| • other measurement function                                                                          | No                                          |
| Net Weight                                                                                            | 4 800 g                                     |
| Current                                                                                               |                                             |
| operational current                                                                                   |                                             |
| • at 40 °C                                                                                            | 400 A                                       |
| • at 45 °C                                                                                            | 400 A                                       |
| • at 50 °C                                                                                            | 400 A                                       |
| • at 55 °C                                                                                            | 375 A                                       |
| • at 60 °C                                                                                            | 350 A                                       |
| • at 65 °C                                                                                            | 325 A                                       |
| • at 70 °C                                                                                            | 300 A                                       |
| Switching capacity according to IEC 60947                                                             |                                             |
| switching capacity class of the circuit breaker                                                       | L                                           |
| maximum short-circuit current breaking capacity (Icu)                                                 |                                             |
| • 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>                                                                             | 150 kA<br>150 kA<br>100 kA<br>25 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> | 200 kA<br>150 kA<br>150 kA<br>100 kA<br>18 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>330 kA<br>330 kA<br>220 kA<br>52.5 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>                              | 160 A<br>400 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 (Isd) / of S-trip / with I0t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 240 A<br>4 000 A                                |
| adjustable response value setting current (Isd) / of S-trip / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 240 A<br>4 000 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>                                 | 0.05 s<br>0.5 s                                 |
| adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                 | 0.05 s<br>0.5 s                                 |
| adjustable response value setting current (Ii) / for I-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                       | 600 A<br>4 000 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>              | 80 A<br>400 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>                             | 80 A<br>400 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                                                                                                                                                    |                                                 |

|                                                                                           |                              |
|-------------------------------------------------------------------------------------------|------------------------------|
| • minimum                                                                                 | 80 A                         |
| • maximum                                                                                 | 400 A                        |
| design of the N-conductor protection                                                      | adjustable OFF; 20% to 100%  |
| product function / grounding protection                                                   | Yes                          |
| <b>Mechanical Design</b>                                                                  |                              |
| product component                                                                         |                              |
| • undervoltage release                                                                    | No                           |
| • voltage trigger                                                                         | No                           |
| • trip indicator                                                                          | No                           |
| height [in]                                                                               | 9.76 in                      |
| height                                                                                    | 248 mm                       |
| width [in]                                                                                | 7.24 in                      |
| width                                                                                     | 184 mm                       |
| depth [in]                                                                                | 4.33 in                      |
| depth                                                                                     | 110 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-sections / for flat-bar terminal connection / minimum | 20 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 35 x 10 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                       |
| <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                                                 | 495 kg                       |
| global warming potential [CO2 eq] / during manufacturing                                  | 28.7 kg                      |
| global warming potential [CO2 eq] / during operation                                      | 470 kg                       |
| global warming potential [CO2 eq] / after end of life                                     | -4.07 kg                     |
| Siemens Eco Profile (SEP)                                                                 | Siemens EcoTech              |
| reference code / according to IEC 81346-2                                                 | Q                            |
| <b>Approvals / Certificates</b>                                                           |                              |
| <b>General Product Approval</b>                                                           |                              |



[Confirmation](#)



EG-Konf.



[Miscellaneous](#)



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



[Special Test Certificate](#)

[Miscellaneous](#)

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





## Environment

[Environmental Con-  
firmations](#)

## 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=3VA2340-8JQ42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-8JQ42-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2340-8JQ42-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-8JQ42-0AA0)

## 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='HAUPT'></mmp_prod_no>)





