

**Siemens**  
**EcoTech**



circuit breaker 3VA2 IEC Frame 100 breaking capacity class H Icu=85 kA @ 415 V  
4-pole, line protection ETU560, LSIG, In=63 A overload protection Ir=25 A...63 A  
short-circuit protection Isd=0.6..10x In, li=1.5..12x In neutral conductor protection  
adjustable (OFF, up to 160%) ground-fault protection, can be switched off  
lg=0.25...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                                                                               | 5.4 W                                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole            | 1.8 W                                       |
| mechanical service life (operating cycles) / typical                                                   | 25 000                                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                       | 15 000                                      |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                           | 10 500                                      |
| product feature / for neutral conductors / upgradable/retrofittable / 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                                                                                             | 2.681 kg                                    |
| Current                                                                                                |                                             |
| operational current                                                                                    |                                             |
| • at 40 °C                                                                                             | 63 A                                        |
| • at 45 °C                                                                                             | 63 A                                        |
| • at 50 °C                                                                                             | 63 A                                        |
| • at 55 °C                                                                                             | 63 A                                        |
| • at 60 °C                                                                                             | 63 A                                        |
| • at 65 °C                                                                                             | 63 A                                        |
| • at 70 °C                                                                                             | 63 A                                        |
| Switching capacity according to IEC 60947                                                              |                                             |
| switching capacity class of the circuit breaker                                                        | H                                           |
| maximum short-circuit current breaking capacity (Icu)                                                  |                                             |
| • at 240 V                                                                                             | 110 kA                                      |
| • at 415 V                                                                                             | 85 kA                                       |
| • at 440 V                                                                                             | 85 kA                                       |
| • at 500 V                                                                                             | 55 kA                                       |
| • at 690 V                                                                                             | 2 kA                                        |
| operating short-circuit current breaking capacity (Ics)                                                |                                             |
| • at 240 V                                                                                             | 110 kA                                      |
| • at 415 V                                                                                             | 85 kA                                       |
| • at 440 V                                                                                             | 85 kA                                       |
| • at 500 V                                                                                             | 55 kA                                       |
| • at 690 V                                                                                             | 2 kA                                        |
| short-circuit current making capacity (Icm)                                                            |                                             |
| • at 240 V                                                                                             | 242 kA                                      |

|            |        |
|------------|--------|
| • at 415 V | 187 kA |
| • at 440 V | 187 kA |
| • at 500 V | 121 kA |
| • at 690 V | 3 kA   |

#### Adjustable parameters

|                                                                                                     |                             |
|-----------------------------------------------------------------------------------------------------|-----------------------------|
| product feature / for L-tripping / can be switched on/off                                           | No                          |
| adjustable response value setting current ( $I_r$ ) / of the L-trip / with $I_{2t}$ characteristic  |                             |
| • minimum                                                                                           | 25 A                        |
| • maximum                                                                                           | 63 A                        |
| adjustable response value delay time ( $t_r$ ) / for L-tripping / with $I_{2t}$ characteristic      |                             |
| • minimum                                                                                           | 0.5 s                       |
| • maximum                                                                                           | 25 s                        |
| adjustable response value setting current ( $I_{sd}$ ) / of S-trip / with $I_{0t}$ characteristic   |                             |
| • minimum                                                                                           | 37 A                        |
| • maximum                                                                                           | 630 A                       |
| adjustable response value setting current ( $I_{sd}$ ) / of S-trip / with $I_{2t}$ characteristic   |                             |
| • minimum                                                                                           | 37 A                        |
| • maximum                                                                                           | 630 A                       |
| adjustable response value delay time ( $t_{sd}$ ) / for S-tripping / with $I_{0t}$ characteristic   |                             |
| • minimum                                                                                           | 0.05 s                      |
| • maximum                                                                                           | 0.5 s                       |
| adjustable response value delay time ( $t_{sd}$ ) / for S-tripping / with $I_{2t}$ characteristic   |                             |
| • minimum                                                                                           | 0.05 s                      |
| • maximum                                                                                           | 0.5 s                       |
| adjustable response value setting current ( $I_l$ ) / for I-tripping                                |                             |
| • minimum                                                                                           | 94 A                        |
| • maximum                                                                                           | 756 A                       |
| adjustable current response value current / for G-tripping / with standard characteristic           |                             |
| • initial value                                                                                     | 15 A                        |
| • full-scale value                                                                                  | 63 A                        |
| adjustable response value delay time ( $t_g$ ) / for G-tripping / with $I_{0t}$ characteristic      |                             |
| • minimum                                                                                           | 0.05 s                      |
| • maximum                                                                                           | 0.8 s                       |
| adjustable response value setting current ( $I_g$ ) / for G-tripping / with $I_{2t}$ characteristic |                             |
| • minimum                                                                                           | 15 A                        |
| • maximum                                                                                           | 63 A                        |
| adjustable response value delay time ( $t_g$ ) / for G-tripping / with $I_{2t}$ characteristic      |                             |
| • minimum                                                                                           | 0.05 s                      |
| • maximum                                                                                           | 0.8 s                       |
| adjustable setting current ( $I_{nN}$ ) / for N-tripping                                            |                             |
| • minimum                                                                                           | 25 A                        |
| • maximum                                                                                           | 100 A                       |
| design of the N-conductor protection                                                                | adjustable OFF; 40% to 160% |
| product function / grounding protection                                                             | Yes                         |

#### Mechanical Design

|                        |         |
|------------------------|---------|
| product component      |         |
| • undervoltage release | No      |
| • voltage trigger      | No      |
| • trip indicator       | No      |
| height [in]            | 7.13 in |
| height                 | 181 mm  |
| width [in]             | 5.51 in |

|                                                                                           |                              |
|-------------------------------------------------------------------------------------------|------------------------------|
| width                                                                                     | 140 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                                  | 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                          |
| <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                                                 | 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                            |
| <b>Approvals / Certificates</b>                                                           |                              |
| <b>General Product Approval</b>                                                           |                              |



[Miscellaneous](#)



[Confirmation](#)

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



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



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



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

[Miscellaneous](#)

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



## 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=3VA2063-6JQ42-0AA0>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3VA2063-6JQ42-0AA0>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2063-6JQ42-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2063-6JQ42-0AA0)**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>)

last modified:

5/25/2025