

**Siemens**  
**EcoTech**



circuit breaker 3VA2 IEC Frame 100 breaking capacity class H  $I_{cu}=85 \text{ kA} @ 415 \text{ V}$   
3-pole, line protection ETU330, LIG,  $I_n=63 \text{ A}$  overload protection  $I_r=25 \text{ A} \dots 63 \text{ A}$   
short-circuit protection  $I_i=1.5 \dots 12 \times I_n$  ground-fault protection  $I_g=0.25 \dots 1 \times I_n$ ,  
 $t_g=0.1/0.3 \text{ s}$  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                                                                              | 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/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                                                                                            | 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 ( $I_{cu}$ )                                          |                                         |
| • 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 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> | 110 kA<br>85 kA<br>85 kA<br>55 kA<br>2 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 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>                              | 25 A<br>63 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>                                                       | 95 A<br>756 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>              | 16 A<br>63 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                               |
| 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                                          |
| <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  |

| 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 | EMV |
|--------------------------|-----|



[Confirmation](#)



[Miscellaneous](#)



|                   |                   |
|-------------------|-------------------|
| Test Certificates | Marine / Shipping |
|-------------------|-------------------|

[Special Test Certificate](#)

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



|                   |       |                 |
|-------------------|-------|-----------------|
| Marine / Shipping | other | Dangerous goods |
|-------------------|-------|-----------------|



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

[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

[Transport Information](#)

#### Environment



[Environmental Confirmations](#)

[Environmental Confirmations](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3VA2063-6HM36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2063-6HM36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2063-6HM36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2063-6HM36-0AA0)

CAX-Online-Generator

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

Tender specifications

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





