



circuit breaker 3VA2 IEC frame 160 breaking capacity class H Icu=85kA @ 415V 4-pole, line protection ETU560, LSIG, In=63A overload protection Ir=25A...63A short-circuit protection Isd=0.6..10x In, li=1.5..12x In N conductor protection adjustable (OFF, up to 160%) gr.-fault prot., can be sw. off Ig=0.25...1 x In= tg=0.05-0.8s nut keeper kit

| Model  |   |
|--|---|
| product brand name   | SENTRON                                     |
| product designation  | Molded case circuit breaker                 |
| Product version  | Line protection                             |
| design of the overcurrent release  | ETU560                                      |
| protection function of the overcurrent release   | LSIG  |
| number of poles  | 4   |
| General technical data   |   |
| Tension assignée d'isolement Ui  | 800 V                                       |
| power loss [W] / maximum   | 4 W   |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 1.33 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  | No  |
| ground-fault monitoring version  | Summation current formation L + N conductor |
| product function   |   |
| • communication function   | Yes   |
| • other measurement function   | No  |
| net weight   | 2.94 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   |
| breaking capacity maximum short-circuit current (Icu)  |   |
| • 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 / I <sub>g</sub> min.  | 25 A   |
| Adjustable response value current / I <sub>g</sub> min.  | 63 A   |
| Adjustable response value current / I <sub>g</sub> min.  | 0.5  |
| Adjustable response value current / I <sub>g</sub> min.  | 25   |
| Adjustable response value current / I <sub>g</sub> min.  | 38 A   |
| Adjustable response value current / I <sub>g</sub> min.  | 630 A  |
| Adjustable response value current / I <sub>g</sub> min.  | 0.05 s   |
| Adjustable response value current / I <sub>g</sub> min.  | 0.5 s  |
| Adjustable response value current / I <sub>g</sub> min.  | 0.05 s   |
| Adjustable response value current / I <sub>g</sub> min.  | 0.5 s  |
| Adjustable response value current / I <sub>i</sub> min.  | 95 A   |
| Adjustable response value current / I <sub>i</sub> max.  | 756 A  |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF  | Yes  |
| Adjustable response value current / I <sub>g</sub> min.  | 16 A   |
| Adjustable response value current / I <sub>g</sub> max.  | 63 A   |
| Adjustable response value current / t <sub>g</sub> min.  | 0.05 s   |
| Adjustable response value current / I <sub>g</sub> min.  | 0.8 s  |
| Adjustable response value current / for G-tripping / with I <sub>2t</sub> characteristic / min.  | 0.25 A   |
| Adjustable response value current / for G-tripping / with I <sub>2t</sub> characteristic / max.  | 1 A  |
| <b>Mechanical Design</b>   |  |
| height [in]  | 7.1 in   |
| Height   | 181 mm   |
| width [in]   | 5.5 in   |
| Width  | 140 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
- during storage / minimum
- during storage / maximum

70 °C  
-40 °C  
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



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



### 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=3VA2163-6JQ42-0AA0>

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

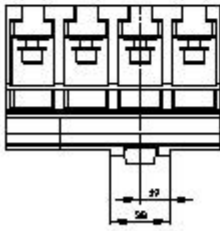
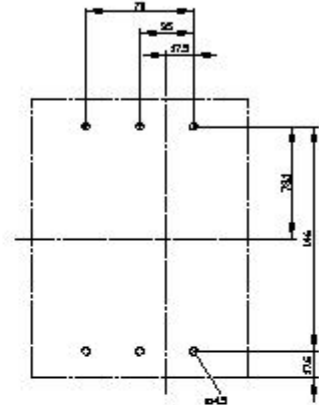
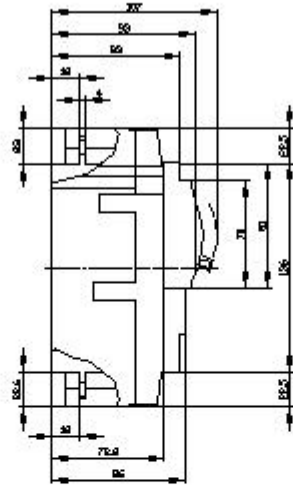
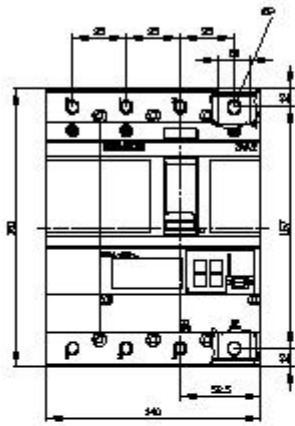
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-6JQ42-0AA0>

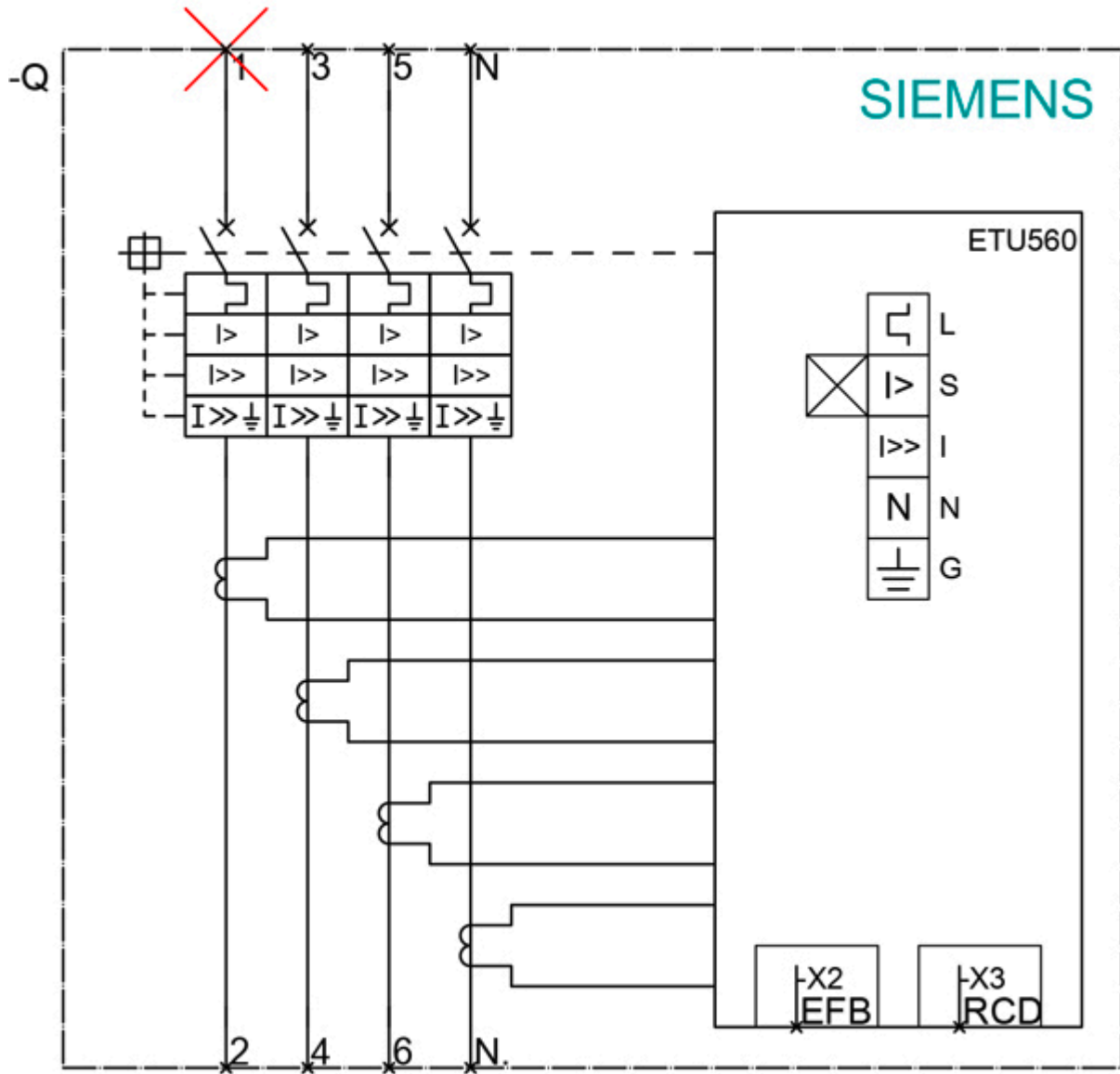
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2163-6JQ42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-6JQ42-0AA0)

Tender specifications

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





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