



CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 3-POLE, LINE PROTECTION ETU560, LSIG, IN=630A OVERLOAD PROTECTION IR=252A ...630A SHORT CIRCUIT PROTECTION ISD=0,6..9X IN, II=1,5..9X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT, UPTO 160 GROUND-FAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,05-0,8S BUSBAR CONNECTION SHUNT TRIP (STL) 220-250 V DC, 208-277 V AC 2 AUXILIARY SWITCH HQ 1 TRIP ALARM SWITCH HQ 1 ELECTRICAL ALARM SWITCH HQ

| Model                                          |                                                                           |
|------------------------------------------------|---------------------------------------------------------------------------|
| product brandname                              | SENTRON                                                                   |
| Product designation                            | Molded case circuit breaker                                               |
| Design of the product                          | Line protection                                                           |
| Design of the overcurrent release              | ETU560                                                                    |
| Protective function of the overcurrent release | LSIG                                                                      |
| Number of poles                                | 3                                                                         |
| Design of the auxiliary release                | Shunt trip (STL)                                                          |
| Design of the auxiliary switch                 | 2 auxiliary switches + 1 trip alarm switch + 1 electrical alarm switch HQ |

| General technical data                                                                           |        |
|--------------------------------------------------------------------------------------------------|--------|
| Tension assignée d'isolement Ui                                                                  | 800 V  |
| Max. rated operational voltage Ue with AC 50/60Hz                                                | 690 V  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 162 W  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole   | 54 W   |
| Mechanical service life (switching cycles) / typical                                             | 15 000 |

|                                                                           |                                         |
|---------------------------------------------------------------------------|-----------------------------------------|
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 4 000                                   |
| Neutral conductors / upgradeable/retrofitable                             | Yes                                     |
| Ground fault monitoring version                                           | Summation current formation L-conductor |
| Product function                                                          |                                         |
| • communication function                                                  | Yes                                     |
| • Phase failure detection                                                 | No                                      |
| • other measurement function                                              | No                                      |
| Net weight                                                                | 4.4 kg                                  |

## Electricity

|                                                                   |       |
|-------------------------------------------------------------------|-------|
| Max. rated operational voltage of the size of the circuit-breaker | 630 A |
| Courant permanent assigné Iu                                      | 630 A |
| Operating current                                                 |       |
| • at 40 °C                                                        | 630 A |
| • at 45 °C                                                        | 600 A |
| • at 50 °C                                                        | 570 A |
| • at 55 °C                                                        | 540 A |
| • at 60 °C                                                        | 510 A |
| • at 65 °C                                                        | 480 A |
| • at 70 °C                                                        | 450 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                                                | 20 kA  |
| Operational 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                                                | 20 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                                                | 40 kA  |

| Adjustable parameters                                              |         |
|--------------------------------------------------------------------|---------|
| Adjustable response value current / I <sub>g</sub> min.            | 252 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 630 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 0.5     |
| Adjustable response value current / I <sub>g</sub> min.            | 12      |
| Adjustable response value current / I <sub>g</sub> min.            | 378 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 5 670 A |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF | Yes     |
| 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.            | 945 A   |
| Adjustable response value current / I <sub>i</sub> max.            | 5 670 A |
| Ground fault protection can be switched ON/OFF                     | Yes     |
| Adjustable response value current / I <sub>g</sub> min.            | 126 A   |
| Adjustable response value current / I <sub>g</sub> max.            | 630 A   |

| Mechanical Design |        |
|-------------------|--------|
| Height            | 248 mm |
| Width             | 138 mm |
| Depth             | 110 mm |

| Connections                                                                             |                |
|-----------------------------------------------------------------------------------------|----------------|
| Arrangement of electrical connectors / for main current circuit                         | Front terminal |
| Type of electrical connection / for main current circuit                                | Lug terminal   |
| Type of connectable conductor cross-section, connection screw, width x thickness , min. | 20 x 1         |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 35 x 10        |

| Auxiliary circuit                              |     |
|------------------------------------------------|-----|
| Product component                              |     |
| • undervoltage release                         | No  |
| • Voltage trigger                              | Yes |
| • undervoltage release with leading contact    | No  |
| • Trip indicator                               | Yes |
| Number of CO contacts / for auxiliary contacts | 4   |

| Accessories                                       |                                    |
|---------------------------------------------------|------------------------------------|
| Product extension / optional / motor drive        | Yes                                |
| Manufacturer's article number                     |                                    |
| • of the supplied basic switch                    | <a href="#">3VA2463-6JQ32-0AA0</a> |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AA12</a>      |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AB12</a>      |

- of the integrated auxiliary switch/alarm switch
- of the integrated auxiliary trip

[3VA9988-0AB22](#)

3VA9688-0BL33

## 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  |

## Certificates

|                                            |   |
|--------------------------------------------|---|
| Equipment marking / acc. to DIN EN 81346-2 | Q |
|--------------------------------------------|---|

| General Product Approval                                                          |                                                                                   | EMC                                                                               | Declaration of Conformity                                                         | Test Certificates                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| CCC                                                                               | VDE                                                                               |                                                                                   | RCM                                                                               | EG-Konf.                                                                            |

[Typprüfbescheinigung/Werkszeugnis](#)

| Test Certificates       | Shipping Approval                                                                   |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <a href="#">sonstig</a> |  |  |  |  |  |
|                         | ABS                                                                                 | BUREAU VERITAS                                                                      | GL                                                                                  | LRS                                                                                   | RMRS                                                                                  |

## other

[sonstig](#)

## Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2463-6JQ32-0KL0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2463-6JQ32-0KL0/all>

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

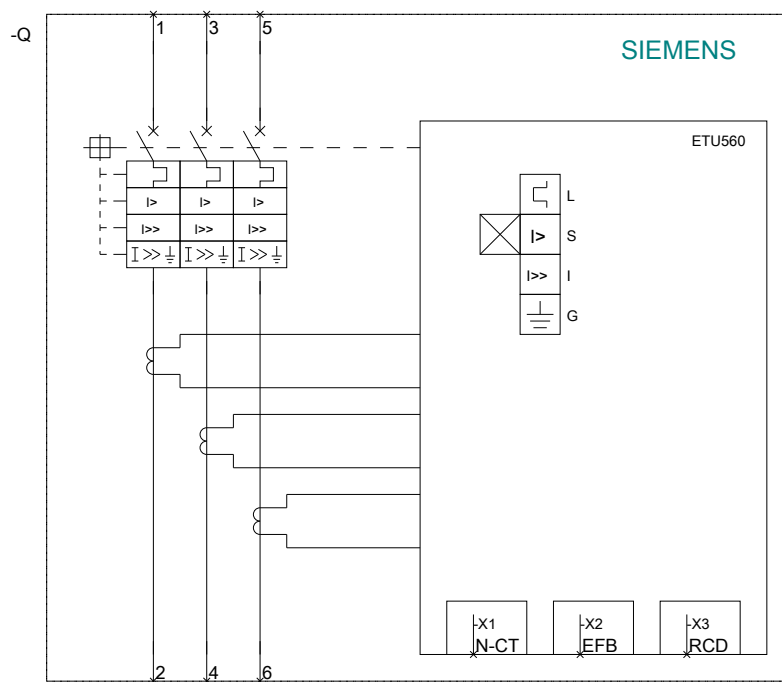
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2463-6JQ32-0KL0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2463-6JQ32-0KL0)

**CAX-Online-Generator**

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

**Tender specifications**

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



**last modified:**

10/29/2016