



CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU850, LSI, 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 BUSBAR CONNECTION UNDERVOLTAGE RELEASE (UVR) 120-127 V AC 50/60 HZ 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              | ETU850                                                                    |
| Protective function of the overcurrent release | LSI                                                                       |
| Number of poles                                | 3                                                                         |
| Design of the auxiliary release                | Undervoltage release (UVR)                                                |
| 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 | 164.5 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                                           | Without |
| Product function                                                          |         |
| • communication function                                                  | Yes     |
| • Phase failure detection                                                 | No      |
| • other measurement function                                              | Yes     |
| 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           | M       |
| Maximum short-circuit current breaking capacity (Icu)     |         |
| • at 240 V                                                | 85 kA   |
| • at 415 V                                                | 55 kA   |
| • at 440 V                                                | 55 kA   |
| • at 500 V                                                | 36 kA   |
| • at 690 V                                                | 10 kA   |
| Operational short-circuit current breaking capacity (Ics) |         |
| • at 240 V                                                | 85 kA   |
| • at 415 V                                                | 55 kA   |
| • at 440 V                                                | 55 kA   |
| • at 500 V                                                | 36 kA   |
| • at 690 V                                                | 10 kA   |
| Short-circuit current making capacity (Icm)               |         |
| • at 240 V                                                | 187 kA  |
| • at 415 V                                                | 121 kA  |
| • at 440 V                                                | 121 kA  |
| • at 500 V                                                | 75.6 kA |
| • at 690 V                                                | 17 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                            |
| 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                                                                  | Yes                                |
| • Voltage trigger                                                                       | No                                 |
| • 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="#">3VA2463-5KP32-0AA0</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                                       | <a href="#">3VA9988-0AB22</a>      |
| • of the integrated auxiliary trip                                                      | <a href="#">3VA9608-0BB24</a>      |
| 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<br>Conformity                                                             | Test<br>Certificates                                                                            |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>VDE | <br>EAC | <br>RCM | <br>EG-Konf. |
| <a href="#">Typprüfbescheinigung/Werkszeugnis</a>                                        |                                                                                          |                                                                                          |                                                                                          |                                                                                                 |

| Test Certificates       | Shipping Approval                                                                        |                                                                                                     |                                                                                         |                                                                                            |                                                                                             |
|-------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <a href="#">sonstig</a> | <br>ABS | <br>BUREAU VERITAS | <br>GL | <br>LRS | <br>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/3VA2463-5KP32-0CL0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2463-5KP32-0CL0/all>

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

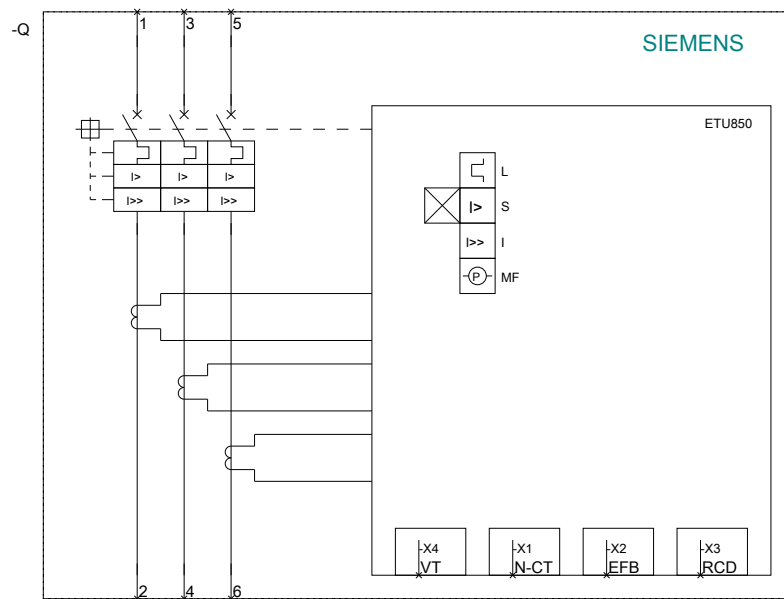
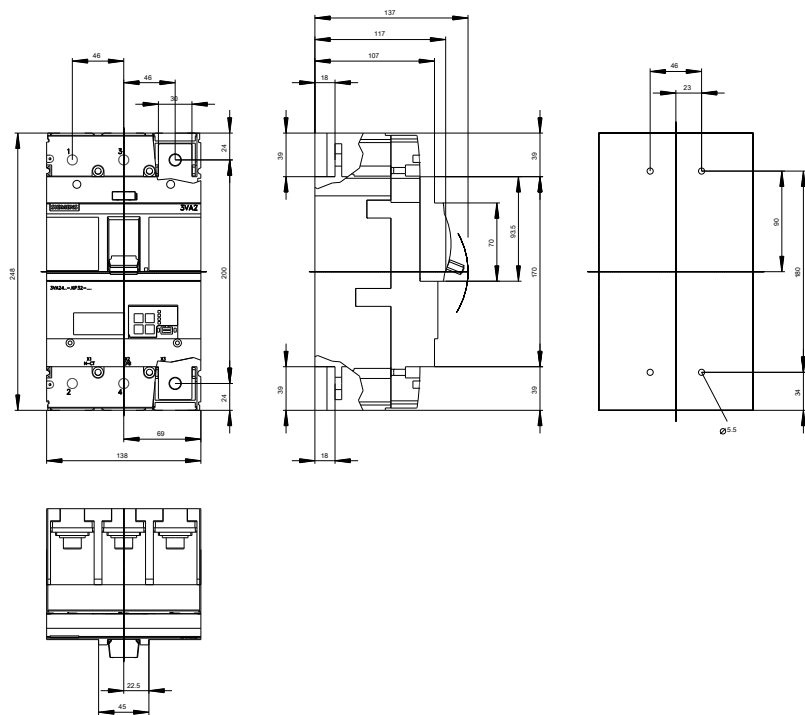
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2463-5KP32-0CL0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2463-5KP32-0CL0)

CAX-Online-Generator

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

Tender specifications

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



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