

CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU550, 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) 24 V DC 2 AUXILIARY SWITCH HQ

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brandname                              | SENTRON                     |
| Product designation                            | Molded case circuit breaker |
| Design of the product                          | Line protection             |
| Design of the overcurrent release              | ETU550                      |
| 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 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                                                                     | 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           | 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                               | No  |
| Number of CO contacts / for auxiliary contacts | 2   |

#### Accessories

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| Product extension / optional / motor drive        | Yes                                |
| Manufacturer's article number                     |                                    |
| • of the supplied basic switch                    | <a href="#">3VA2463-5JP32-0AA0</a> |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AA12</a>      |
| • of the integrated auxiliary trip                | <a href="#">3VA9608-0BB11</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 Conformity                                                                       | Test Certificates                                 |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <br>CCC | <br>VDE |  | <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                   |
|-------------------------|
| <a href="#">sonstig</a> |

#### 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/3VA2463-5JP32-0BC0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2463-5JP32-0BC0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2463-5JP32-0BC0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2463-5JP32-0BC0)

##### CAX-Online-Generator

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

##### Tender specifications

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

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