



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=250A ...630A SHORT CIRCUIT PROTECTION  $I_{sd}=0,6..9 \times I_n$ ,  $I_i=1,5..9 \times I_n$  NEUTRAL PROTECTION OPTIONAL WITH EXT. CT; UPTO 160% BUSBAR CONNECTION

| 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                           |

| General technical data                                                                           |         |
|--------------------------------------------------------------------------------------------------|---------|
| Tension assignée d'isolement $U_i$                                                               | 800 V   |
| Max. rated operational voltage $U_e$ 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                                                                  | Without |

|                              |        |
|------------------------------|--------|
| Product function             |        |
| • communication function     | Yes    |
| • other measurement function | No     |
| Net weight                   | 4.3 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                                                | 6 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                                                | 6 kA   |
| Short-circuit current making capacity (Icm)               |        |
| • at 240 V                                                | 187 kA |
| • at 415 V                                                | 121 kA |
| • at 690 V                                                | 9 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>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 |
| Design of the N-conductor protection                                    | Without |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No      |

#### Mechanical Design

|             |        |
|-------------|--------|
| Height [in] | 9.8 in |
| Height      | 248 mm |
| Width [in]  | 5.4 in |
| Width       | 138 mm |
| Depth [in]  | 5.4 in |
| Depth       | 137 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

|                                                |   |
|------------------------------------------------|---|
| Number of CO contacts / for auxiliary contacts | 0 |
|------------------------------------------------|---|

#### Accessories

|                                            |     |
|--------------------------------------------|-----|
| Product extension / optional / motor drive | Yes |
|--------------------------------------------|-----|

#### 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>RCM | <br>EG-Konf. | <a href="#">Typprüfbescheinigung/Werkszeugnis</a> |

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

| Shipping<br>Approval                                                                      | other                   |
|-------------------------------------------------------------------------------------------|-------------------------|
| <br>RMRS | <a href="#">sonstig</a> |

#### 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=3VA2463-5JP32-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2463-5JP32-0AA0/all>

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

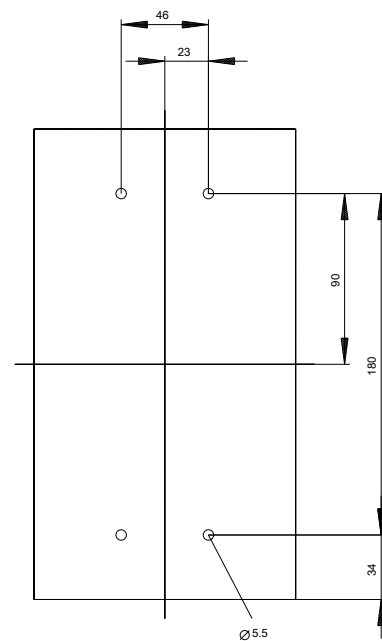
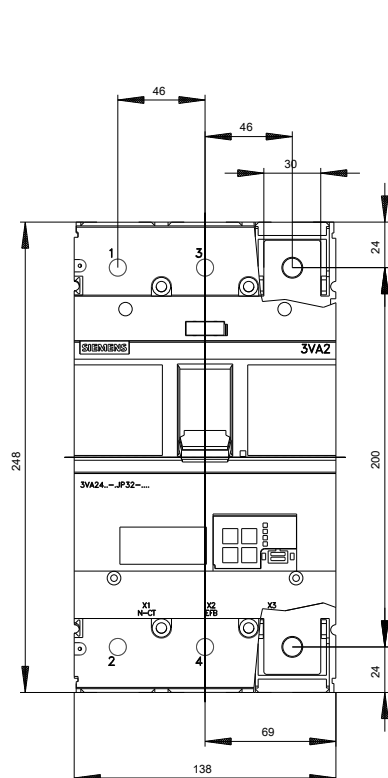
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2463-5JP32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2463-5JP32-0AA0)

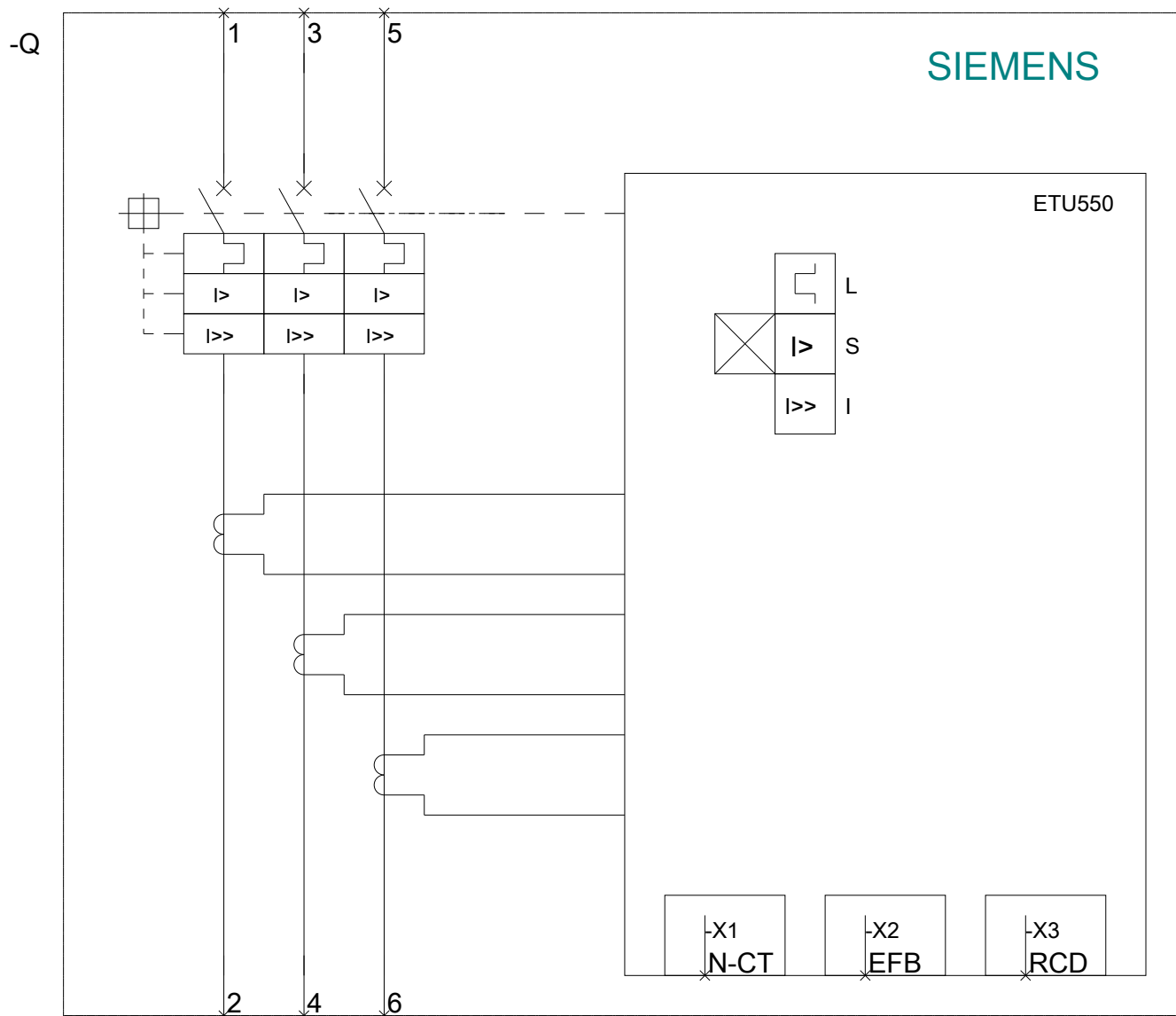
##### CAX-Online-Generator

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

##### Tender specifications

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





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