



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU550, LSI, IN=250A OVERLOAD PROTECTION IR=100A ...250A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..10X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT BUSBAR CONNECTION 2 AUXILIARY SWITCH HP 1 TRIP ALARM SWITCH HP 1 ELECTRICAL ALARM SWITCH HP

| Model                                                                                            |                                               |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------|
| product brandname                                                                                | SETRON                                        |
| 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                                                                  | Without auxiliary release                     |
| Design of the auxiliary switch                                                                   | 2 auxiliary switches + 1 trip alarm switch HP |
| 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 | 48 W                                          |
| Mechanical service life (switching cycles) / typical                                             | 20 000                                        |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                        | 10 000                                        |
| 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                   | 2.52 kg |

#### Electricity

|                                                                   |       |
|-------------------------------------------------------------------|-------|
| Max. rated operational voltage of the size of the circuit-breaker | 250 A |
| Courant permanent assigné Iu                                      | 250 A |
| Operating current                                                 |       |
| • at 40 °C                                                        | 250 A |
| • at 45 °C                                                        | 250 A |
| • at 50 °C                                                        | 250 A |
| • at 55 °C                                                        | 238 A |
| • at 60 °C                                                        | 225 A |
| • at 65 °C                                                        | 213 A |
| • at 70 °C                                                        | 200 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                                                | 3 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                                                | 3 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                                                | 79 kA  |
| • at 690 V                                                | 5.1 kA |

#### Adjustable parameters

|                                                         |       |
|---------------------------------------------------------|-------|
| Adjustable response value current / I <sub>g</sub> min. | 100 A |
| Adjustable response value current / I <sub>g</sub> min. | 250 A |

|                                                                    |         |
|--------------------------------------------------------------------|---------|
| Adjustable response value current / I <sub>g</sub> min.            | 0.5     |
| Adjustable response value current / I <sub>g</sub> min.            | 15      |
| Adjustable response value current / I <sub>g</sub> min.            | 150 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 2 500 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.            | 375 A   |
| Adjustable response value current / I <sub>i</sub> max.            | 2 500 A |

### Mechanical Design

|        |        |
|--------|--------|
| Height | 181 mm |
| Width  | 105 mm |
| Depth  | 86 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. | 13 x 1 mm      |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 25 x 8.5       |

### Auxiliary circuit

|                                                |     |
|------------------------------------------------|-----|
| Product component                              |     |
| • undervoltage release                         | No  |
| • Voltage trigger                              | No  |
| • undervoltage release with leading contact    | No  |
| • Trip indicator                               | Yes |
| Number of CO contacts / for auxiliary contacts | 3   |

### Accessories

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| Product extension / optional / motor drive        | Yes                                |
| Manufacturer's article number                     |                                    |
| • of the supplied basic switch                    | <a href="#">3VA2225-5JP32-0AA0</a> |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AA11</a>      |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AB11</a>      |

### Environmental conditions

|                                    |        |
|------------------------------------|--------|
| Protection class IP / on the front | IP40   |
| Ambient temperature                |        |
| • during operation / minimum       | -25 °C |

- during operation / maximum
- during storage / minimum
- during storage / maximum

70 °C  
-40 °C  
80 °C

## Certificates

Equipment marking / acc. to DIN EN 81346-2

Q

| General Product Approval                                                                 |                                                                                          |                                                                                          | EMC                                                                                        | Declaration of Conformity                                                                       |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>VDE | <br>EAC | <a href="#">sonstig</a>                                                                    | <br>EG-Konf. |
|                                                                                          |                                                                                          |                                                                                          | <br>RCM |                                                                                                 |

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

| Shipping 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://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2225-5JP32-0AJ0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2225-5JP32-0AJ0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2225-5JP32-0AJ0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-5JP32-0AJ0)

CAX-Online-Generator

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

Tender specifications

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



last modified:

10/29/2016