



CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, MOTOR PROTECTION ETU350M, LSI, IN=500A OVERLOAD PROTECTION IR=200A ...500A SHORT CIRCUIT PROTECTION ISD=3... 15 X IR, II=15 X IN BUSBAR CONNECTION 2 AUXILIARY SWITCH HQ

| Model                                                                                            |                             |
|--------------------------------------------------------------------------------------------------|-----------------------------|
| product brandname                                                                                | SENTRON                     |
| Product designation                                                                              | Molded case circuit breaker |
| Design of the product                                                                            | Motor protection            |
| Design of the overcurrent release                                                                | ETU350M                     |
| 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                       |
| Operating power / at AC-3 / at 400 V                                                             | 200 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 101.5 W                     |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole   | 33 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                             | No      |
| Ground fault monitoring version                                           | Without |
| Product function                                                          |         |
| • communication function                                                  | No      |
| • Phase failure detection                                                 | Yes     |
| • 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                                      | 500 A |
| Operating current                                                 |       |
| • at 40 °C                                                        | 500 A |
| • at 45 °C                                                        | 500 A |
| • at 50 °C                                                        | 500 A |
| • at 55 °C                                                        | 495 A |
| • at 60 °C                                                        | 490 A |
| • at 65 °C                                                        | 485 A |
| • at 70 °C                                                        | 480 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.            | 200 A                              |
| Adjustable response value current / I <sub>g</sub> min.            | 500 A                              |
| Adjustable response value current / I <sub>g</sub> min.            | 4                                  |
| Adjustable response value current / I <sub>g</sub> min.            | 15                                 |
| Adjustable response value current / I <sub>g</sub> min.            | 1 500 A                            |
| Adjustable response value current / I <sub>g</sub> min.            | 7 500 A                            |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF | No                                 |
| Adjustable response value current / I <sub>g</sub> min.            | 0.03 s                             |
| Adjustable response value current / I <sub>g</sub> min.            | 0.03 s                             |
| Adjustable response value current / I <sub>i</sub> min.            | 7 500 A                            |
| Adjustable response value current / I <sub>i</sub> max.            | 7 500 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                       |
| 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="#">3VA2450-5MN32-0AA0</a> |
| • of the integrated auxiliary switch/alarm switch                  | <a href="#">3VA9988-0AA12</a>      |
| • of the integrated auxiliary trip                                 | <a href="#">3VA9608-0BB25</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



CCC



VDE



RCM



EG-Konf.

[sonstig](#)

### other

[Bestätigungen](#)

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## 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/3VA2450-5MN32-0DC0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2450-5MN32-0DC0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2450-5MN32-0DC0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2450-5MN32-0DC0)

### CAX-Online-Generator

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

### Tender specifications

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



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