



CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, MOTOR PROTECTION ETU350M, LSI, IN=400A OVERLOAD PROTECTION IR=160A ...400A SHORT CIRCUIT PROTECTION ISD=3... 15 X IR, II=15 X IN BUSBAR CONNECTION SHUNT TRIP (STL) 12-30 V DC, 24 V AC 50/60 HZ 2 AUXILIARY SWITCH HQ 1 TRIP ALARM 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                | Shunt trip (STL)                              |
| Design of the auxiliary switch                 | 2 auxiliary switches + 1 trip alarm switch 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                                                             | 160 W  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 63.5 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole   | 21.1 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                                                                | 4.3 kg  |

## Electricity

|                                                                   |       |
|-------------------------------------------------------------------|-------|
| Max. rated operational voltage of the size of the circuit-breaker | 630 A |
| Courant permanent assigné Iu                                      | 400 A |
| Operating current                                                 |       |
| • at 40 °C                                                        | 400 A |
| • at 45 °C                                                        | 400 A |
| • at 50 °C                                                        | 400 A |
| • at 55 °C                                                        | 384 A |
| • at 60 °C                                                        | 376 A |
| • at 65 °C                                                        | 368 A |
| • at 70 °C                                                        | 360 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.            | 160 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 400 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 4       |
| Adjustable response value current / I <sub>g</sub> min.            | 17      |
| Adjustable response value current / I <sub>g</sub> min.            | 1 200 A |
| Adjustable response value current / I <sub>g</sub> min.            | 6 000 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.            | 6 000 A |
| Adjustable response value current / I <sub>i</sub> max.            | 6 000 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                         | No  |
| • Voltage trigger                              | Yes |
| • 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="#">3VA2440-5MN32-0AA0</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 trip                | 3VA9688-0BL33                      |

| Environmental conditions           |        |
|------------------------------------|--------|
| Protection class IP / on the front | IP40   |
| Ambient temperature                |        |
| • during operation / minimum       | -25 °C |
| • during operation / maximum       | 70 °C  |

- during storage / minimum
- during storage / maximum

-40 °C

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="#">sonstig</a>                                                                  |

## other

[Bestätigungen](#)

[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/3VA2440-5MN32-0KH0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2440-5MN32-0KH0/all>

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

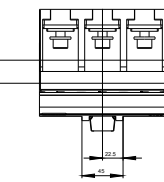
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2440-5MN32-0KH0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2440-5MN32-0KH0)

**CAX-Online-Generator**

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

**Tender specifications**

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



Siemens

3VA2xxx-xMN3x-0AA0

Format / Size: Hybrid quer

**last modified:**

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