



CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU320, LI, IN=400A OVERLOAD PROTECTION IR=160A ...400A SHORT CIRCUIT PROTECTION II=1,5... 12 X IN BUSBAR CONNECTION 3 AUXILIARY SWITCH HQ

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brandname                              | SENTRON                     |
| Product designation                            | Molded case circuit breaker |
| Design of the product                          | Line protection             |
| Design of the overcurrent release              | ETU320                      |
| Protective function of the overcurrent release | LI                          |
| Number of poles                                | 3                           |
| Design of the auxiliary release                | Without auxiliary release   |
| Design of the auxiliary switch                 | 3 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 | 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                     | No      |
| • 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.            | 0.5     |
| Adjustable response value current / I <sub>g</sub> min.            | 17      |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF | No      |
| Adjustable response value current / I <sub>i</sub> min.            | 600 A   |
| Adjustable response value current / I <sub>i</sub> max.            | 4 800 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                         | No |
| • Voltage trigger                              | No |
| • undervoltage release with leading contact    | No |
| • Trip indicator                               | No |
| 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="#">3VA2440-5HL32-0AA0</a> |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AA12</a>      |
| • of the integrated auxiliary trip                | <a href="#">3VA9608-0BB24</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

| General Product Approval | EMC | Declaration of Conformity | Test Certificates |
|--------------------------|-----|---------------------------|-------------------|
|--------------------------|-----|---------------------------|-------------------|



CCC



VDE



RCM



EG-Konf.

[sonstig](#)

| Test Certificates | Shipping Approval |
|-------------------|-------------------|
|-------------------|-------------------|

[Typprüfbescheinigung/Werkszeugnis](#)



ABS

BUREAU  
VERITAS

GL



LRS



RMRS

other

[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/3VA2440-5HL32-0AD0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2440-5HL32-0AD0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2440-5HL32-0AD0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2440-5HL32-0AD0)

CAx-Online-Generator

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

Tender specifications

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



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