



Figure similar

CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU350, LSI, IN=400A OVERLOAD PROTECTION IR=160A ...400A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN BUSBAR CONNECTION

| Model   |   |                             |
|---|---|-----------------------------|
| product brand name  |   | SENTRON                     |
| Product designation   |   | Molded case circuit breaker |
| <b>Design of the product</b>  |   | Line protection             |
| <b>Product variations</b>   |   | Selective Applications      |
| <b>Ground fault monitoring version</b>  |   | Without                     |
| <b>Design of the auxiliary release</b>  |   | without auxiliary release   |
| <b>Design of the auxiliary switch</b>   |   | Without                     |
| <b>Design of the operating mechanism</b>  |   | toggle handle               |
| <b>Type of the driving mechanism / motor drive</b>  |   | No                          |
| <b>Design of the overcurrent release</b>  |   | ETU350                      |
| General technical data  |   |                             |
| <b>Number of poles</b>  |   | 3                           |
| <b>Trip class / of the L-trip / with I<sup>2</sup>t characteristic / initial value</b>    |   | 0.5                         |
| <b>Trip class / of the L-trip / with I<sup>2</sup>t characteristic / Full-scale value</b> |   | 17                          |
| <b>Electrical endurance (switching cycles)</b>  |   | 4 000                       |
| • at AC-1 / at 380/415 V / at 50/60 Hz  |   |                             |
| <b>circuit-breaker / Design</b>   |   | 3VA                         |
| <b>Mechanical service life (switching cycles) / typical</b>                               |   | 15 000                      |
| Voltage   |   |                             |
| Insulation voltage / Rated value  | V | 800                         |
| Protection class  |   |                             |

|   |  |      |
|---|--|------|
| <b>Protection class IP</b>                            |  | IP40 |
| Protection class IP / on the front                    |  | IP40 |
| <b>Protective function of the overcurrent release</b> |  | LSI  |

### Switching capacity

|  |  |   |
|--|--|---|
| <b>Switching capacity class of the circuit breaker</b> |  | M |
|--|--|---|

### Dissipation

|   |   |    |
|---|---|----|
| <b>Active power loss</b>                                    |   |    |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul> | W | 70 |

### Electricity

|  |   |     |
|--|---|-----|
| <b>Continuous current / Rated value / maximum</b>  | A | 630 |
| Continuous current / Rated value   | A | 400 |
| Adjustable response value current / of the instantaneous short-circuit release / initial value | A | 12  |

### Main circuit

|  |   |                                 |
|--|---|---------------------------------|
| <b>Operating voltage</b>   |   |                                 |
| <ul style="list-style-type: none"> <li>• with AC / at 50/60 Hz / Rated value</li> </ul>  | V | 690                             |
| <b>Operating current</b>   |   |                                 |
| <ul style="list-style-type: none"> <li>• at 40 °C / Rated value</li> <li>• at 50 °C / Rated value</li> <li>• at 60 °C / Rated value</li> <li>• at 65 °C / Rated value</li> <li>• at 70 °C / Rated value</li> </ul> | A | 400<br>400<br>380<br>368<br>352 |

### Auxiliary circuit

|   |  |   |
|---|--|---|
| <b>Number of NC contacts / for auxiliary contacts</b> |  | 0 |
| <b>Number of NO contacts / for auxiliary contacts</b> |  | 0 |

### Suitability

|                            |  |                   |
|----------------------------|--|-------------------|
| <b>Suitability for use</b> |  | system protection |
|----------------------------|--|-------------------|

### Adjustable parameters

|  |   |                           |
|--|---|---------------------------|
| <b>Adjustable response value current</b>   |   |                           |
| <ul style="list-style-type: none"> <li>• of I-trip / Full-scale value</li> <li>• of the short-time delayed short-circuit release / initial value</li> <li>• of the short-time delayed short-circuit release / Full-scale value</li> <li>• for N-conductor protection / initial value</li> <li>• for N-conductor protection / Full-scale value</li> </ul> | A | 12<br>1.5<br>10<br>0<br>0 |
| <b>Adjustable delay time</b>   |   |                           |
| <ul style="list-style-type: none"> <li>• of S-trip / with I2t characteristic / initial value</li> <li>• of S-trip / with I2t characteristic / Full-scale value</li> </ul>  | s | 0.02<br>0.4               |

|   |   |     |
|---|---|-----|
| Adjustable response value current / of the current-dependent overload release / initial value | A | 0.4 |
|---|---|-----|

### Product details

|  |  |     |
|--|--|-----|
| <b>Product component</b>   |  |     |
| • Trip indicator   |  | No  |
| • display  |  | No  |
| • undervoltage release   |  | No  |
| <b>Product property</b>  |  |     |
| • for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof |  | No  |
| Product expansion / optional / motor drive   |  | Yes |

### Product function

|                               |  |     |
|-------------------------------|--|-----|
| <b>Product function</b>       |  |     |
| • Intrinsic device protection |  | Yes |
| • communication function      |  | No  |
| • Phase failure detection     |  | No  |
| • other measurement function  |  | No  |

### Accessories

|  |  |                                    |
|--|--|------------------------------------|
| Manufacturer article number / of the supplied basic switch |  | <a href="#">3VA2440-5HN32-0AA0</a> |
|--|--|------------------------------------|

### Short circuit

|  |    |     |
|--|----|-----|
| <b>Operational short-circuit current breaking capacity (Ics)</b> |    |     |
| • at 240 V / Rated value   | kA | 85  |
| • at 415 V / Rated value   | kA | 55  |
| • at 690 V / Rated value   | kA | 6   |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>     |    |     |
| • at 240 V / Rated value   | kA | 85  |
| • at 415 V / Rated value   | kA | 55  |
| • at 690 V / Rated value   | kA | 6   |
| <b>Short-circuit current making capacity (Icm)</b>               |    |     |
| • at 240 V / Rated value   | kA | 187 |
| • at 415 V / Rated value   | kA | 121 |
| • at 690 V / Rated value   | kA | 9   |

### Connections

|   |  |                |
|---|--|----------------|
| Arrangement of electrical connectors / for main current circuit |  | Front terminal |
| Type of connectable conductor cross-section                     |  |                |
| • for flat-bar terminal connection / minimum                    |  | 20 x 1         |
| • for flat-bar terminal connection / maximum                    |  | 35 x 10        |

|  |  |              |
|--|--|--------------|
| Type of electrical connection / for main current circuit |  | Lug terminal |
|--|--|--------------|

### Mechanical Design

|               |    |                |
|---------------|----|----------------|
| Height        | mm | 248            |
| Width         | mm | 138            |
| Depth         | mm | 137            |
| Mounting type |    | fixed mounting |

### Environmental conditions

|                              |    |     |
|------------------------------|----|-----|
| <b>Ambient temperature</b>   |    |     |
| • during operation / minimum | °C | -25 |
| • during operation / maximum | °C | 70  |
| • during storage / minimum   | °C | -40 |
| • during storage / maximum   | °C | 80  |

### Certificates

|                          |  |   |
|--------------------------|--|---|
| <b>Equipment marking</b> |  |   |
| • acc. to DIN EN 61346-2 |  | Q |
| • acc. to DIN EN 81346-2 |  | Q |

|                                 |            |                                  |              |
|---------------------------------|------------|----------------------------------|--------------|
| <b>General Product Approval</b> | <b>EMC</b> | <b>Declaration of Conformity</b> | <b>other</b> |
|---------------------------------|------------|----------------------------------|--------------|



[other](#)



[other](#)

### 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/3VA24405HN320AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA24405HN320AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA24405HN320AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA24405HN320AA0)

**CAX-Online-Generator**

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

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>



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