



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 3-POLE, LINE PROTECTION ETU320, LI, IN=250A OVERLOAD PROTECTION IR=100A ...250A SHORT CIRCUIT PROTECTION II=1,5... 10 X IN BUSBAR CONNECTION UNDERVOLTAGE RELEASE (UVR) 208-230 V AC 50/50 HZ 2 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                | 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   |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 50.5 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  | No      |
| Ground fault monitoring version  | Without |

|                              |         |
|------------------------------|---------|
| Product function             |         |
| • communication function     | No      |
| • Phase failure detection    | No      |
| • other measurement function | No      |
| Net weight                   | 2.57 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  | 241 A |
| • at 60 °C  | 232 A |
| • at 65 °C  | 222 A |
| • at 70 °C  | 213 A |

### Switching capacity according to IEC 60947

|   |        |
|---|--------|
| Switching capacity class of the circuit breaker           | H      |
| Maximum short-circuit current breaking capacity (Icu)     |        |
| • at 240 V  | 110 kA |
| • at 415 V  | 85 kA  |
| • at 440 V  | 85 kA  |
| • at 500 V  | 55 kA  |
| • at 690 V  | 3 kA   |
| Operational short-circuit current breaking capacity (Ics) |        |
| • at 240 V  | 110 kA |
| • at 415 V  | 85 kA  |
| • at 440 V  | 85 kA  |
| • at 500 V  | 55 kA  |
| • at 690 V  | 3 kA   |
| Short-circuit current making capacity (Icm)               |        |
| • at 240 V  | 242 kA |
| • at 415 V  | 187 kA |
| • at 440 V  | 187 kA |
| • at 500 V  | 121 kA |
| • at 690 V  | 6 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      |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF | No      |
| 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  |   |
| <ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• Voltage trigger</li> <li>• undervoltage release with leading contact</li> <li>• Trip indicator</li> </ul> | <ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>No</li> <li>No</li> </ul> |
| Number of CO contacts / for auxiliary contacts   | 2   |

### Accessories

|   |  |
|---|--|
| Product extension / optional / motor drive  | Yes  |
| Manufacturer's article number   |  |
| <ul style="list-style-type: none"> <li>• of the supplied basic switch</li> <li>• of the integrated auxiliary switch/alarm switch</li> <li>• of the integrated auxiliary trip</li> </ul> | <ul style="list-style-type: none"> <li><a href="#">3VA2225-6HL32-0AA0</a></li> <li><a href="#">3VA9988-0AA12</a></li> <li><a href="#">3VA9608-0BB25</a></li> </ul> |

### Environmental conditions

|  |  |
|--|--|
| Protection class IP / on the front   | IP40   |
| Ambient temperature  |  |
| <ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul> | <ul style="list-style-type: none"> <li>-25 °C</li> <li>70 °C</li> <li>-40 °C</li> <li>80 °C</li> </ul> |

### Certificates

|  |   |
|--|---|
| Equipment marking / acc. to DIN EN 81346-2 | Q |
|--|---|

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



CCC



VDE



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RCM



EG-Konf.

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

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ABS



BUREAU VERITAS



GL



LRS

|                   |       |
|-------------------|-------|
| Shipping Approval | other |
|-------------------|-------|



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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/3VA2225-6HL32-0DC0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2225-6HL32-0DC0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA2225-6HL32-0DC0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA2225-6HL32-0DC0)

##### CAX-Online-Generator

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

##### Tender specifications

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



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