

circuit breaker 3VA2 IEC frame 1000 breaking capacity class H  
Icu=85kA @ 415V 3-pole, line protection ETU320, LI, In=800A  
overload protection Ir=320A...800A short-circuit protection Ii=1.5...12  
x In nut keeper kit

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brand name                             | SENTRON                     |
| product designation                            | Molded case circuit breaker |
| Product version                                | Line protection             |
| design of the overcurrent release              | ETU320                      |
| protection function of the overcurrent release | LI                          |
| number of poles                                | 3                           |

| General technical data                                                                         |         |
|------------------------------------------------------------------------------------------------|---------|
| Tension assignée d'isolement Ui                                                                | 800 V   |
| Max. rated operational voltage Ue with AC 50/60Hz                                              | 690 V   |
| power loss [W] / maximum                                                                       | 231 W   |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 77 W    |
| mechanical service life (switching cycles) / typical                                           | 10 000  |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                      | 4 600   |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                          | 3 200   |
| Neutral conductors / upgradeable/retrofitable                                                  | No      |
| ground fault monitoring version                                                                | Without |
| product function                                                                               |         |
| • communication function                                                                       | No      |
| • other measurement function                                                                   | No      |

| Current                                          |         |
|--------------------------------------------------|---------|
| Max. rated operational current of the frame size | 1 000 A |
| Courant permanent assigné Iu                     | 800 A   |
| operating current                                |         |
| • at 40 °C                                       | 800 A   |
| • at 45 °C                                       | 800 A   |
| • at 50 °C                                       | 800 A   |
| • at 55 °C                                       | 800 A   |
| • at 60 °C                                       | 800 A   |
| • at 65 °C                                       | 767 A   |
| • at 70 °C                                       | 703 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                                                | 35 kA  |
| operational short-circuit current breaking capacity (Ics) |        |
| • at 240 V                                                | 110 kA |
| • at 415 V                                                | 85 kA  |
| • at 440 V                                                | 70 kA  |
| • at 500 V                                                | 55 kA  |
| • at 690 V                                                | 19 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                                                | 74 kA  |

## Adjustable parameters

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Adjustable response value current / I <sub>g</sub> min.                 | 320 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 800 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.5     |
| Adjustable response value current / I <sub>g</sub> min.                 | 17      |
| Adjustable response value current / I <sub>i</sub> min.                 | 1 200 A |
| Adjustable response value current / I <sub>i</sub> max.                 | 8 000 A |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No      |

## Mechanical Design

|             |         |
|-------------|---------|
| height [in] | 12.6 in |
| Height      | 320 mm  |
| width [in]  | 8.3 in  |
| Width       | 210 mm  |
| depth [in]  | 4.7 in  |
| depth       | 120 mm  |

## Connections

|                                                                 |                              |
|-----------------------------------------------------------------|------------------------------|
| arrangement of electrical connectors / for main current circuit | Front terminal               |
| type of electrical connection / for main current circuit        | on both sides nut keeper kit |

|                                                                                            |           |
|--------------------------------------------------------------------------------------------|-----------|
| Type of connectable conductor cross-section,<br>connection screw, width x thickness , min. | 20 x 4 mm |
|--------------------------------------------------------------------------------------------|-----------|

#### Auxiliary circuit

|                                                |   |
|------------------------------------------------|---|
| number of CO contacts / for auxiliary contacts | 0 |
|------------------------------------------------|---|

#### 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

|                                         |   |
|-----------------------------------------|---|
| reference code / acc. to DIN EN 81346-2 | Q |
|-----------------------------------------|---|

| General Product Approval                                                                 | EMC                                                                                        | Declaration of<br>Conformity                                                                    |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>EAC   | <br>EG-Konf. |
| <br>VDE | <br>RCM |                                                                                                 |

[Miscellaneous](#)

| Test Certificates             | Shipping Approval                                                                          | other                                              |
|-------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------|
| <a href="#">Miscellaneous</a> | <br>LRS | <a href="#">CCS / China Classification Society</a> |
|                               |                                                                                            | <a href="#">Manufacturer Declaration</a>           |
|                               |                                                                                            | <a href="#">Miscellaneous</a>                      |

#### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**  
<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2580-6HL32-0AA0>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2580-6HL32-0AA0>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2580-6HL32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2580-6HL32-0AA0)

**CAX-Online-Generator**  
<http://www.siemens.com/cax>

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



last modified:

10/29/2020