



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU320, LI, IN=160A OVERLOAD PROTECTION IR=63A ...160A SHORT CIRCUIT PROTECTION II=1,5... 12 X IN BUSBAR CONNECTION UNDERVOLTAGE RELEASE (UVR) 120-127 V AC 50/60 HZ 2 AUXILIARY SWITCH HQ

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brandname                              | SETRON                      |
| 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 | 22.2 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                                      | 160 A |
| Operating current                                                 |       |
| • at 40 °C                                                        | 160 A |
| • at 45 °C                                                        | 160 A |
| • at 50 °C                                                        | 160 A |
| • at 55 °C                                                        | 154 A |
| • at 60 °C                                                        | 148 A |
| • at 65 °C                                                        | 142 A |
| • at 70 °C                                                        | 136 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                                                | 3 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                                                | 3 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                                                | 79 kA  |
| • at 690 V                                                | 5.1 kA |

#### Adjustable parameters

|                                                         |       |
|---------------------------------------------------------|-------|
| Adjustable response value current / I <sub>g</sub> min. | 63 A  |
| Adjustable response value current / I <sub>g</sub> min. | 160 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.            | 240 A   |
| Adjustable response value current / I <sub>i</sub> max.            | 1 920 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                              |     |
| • undervoltage release                         | Yes |
| • Voltage trigger                              | No  |
| • undervoltage release with leading contact    | No  |
| • Trip indicator                               | No  |
| Number of CO contacts / for auxiliary contacts | 2   |

### Accessories

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| Product extension / optional / motor drive        | Yes                                |
| Manufacturer's article number                     |                                    |
| • of the supplied basic switch                    | <a href="#">3VA2216-5HL32-0AA0</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

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

| General Product Approval                                                                 |                                                                                          |                                                                                   | EMC                     | Declaration of<br>Conformity                                                               |                                                                                                 |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>VDE |  | <a href="#">sonstig</a> | <br>RCM | <br>EG-Konf. |

| Test Certificates                                 | Shipping Approval       |                                                                                          |                                                                                                     |                                                                                           |                                                                                            |
|---------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <a href="#">Typprüfbescheinigung/Werkszeugnis</a> | <a href="#">sonstig</a> | <br>ABS | <br>BUREAU VERITAS | <br>GL | <br>LRS |

| Shipping Approval                                                                         | other                   |  |  |  |  |
|-------------------------------------------------------------------------------------------|-------------------------|--|--|--|--|
| <br>RMRS | <a href="#">sonstig</a> |  |  |  |  |

#### 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/3VA2216-5HL32-0CC0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2216-5HL32-0CC0/all>

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

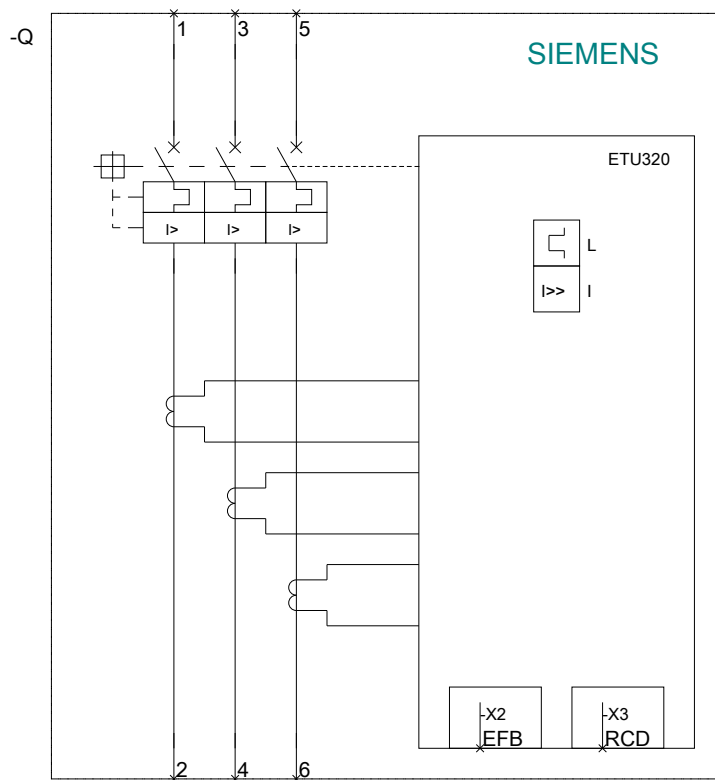
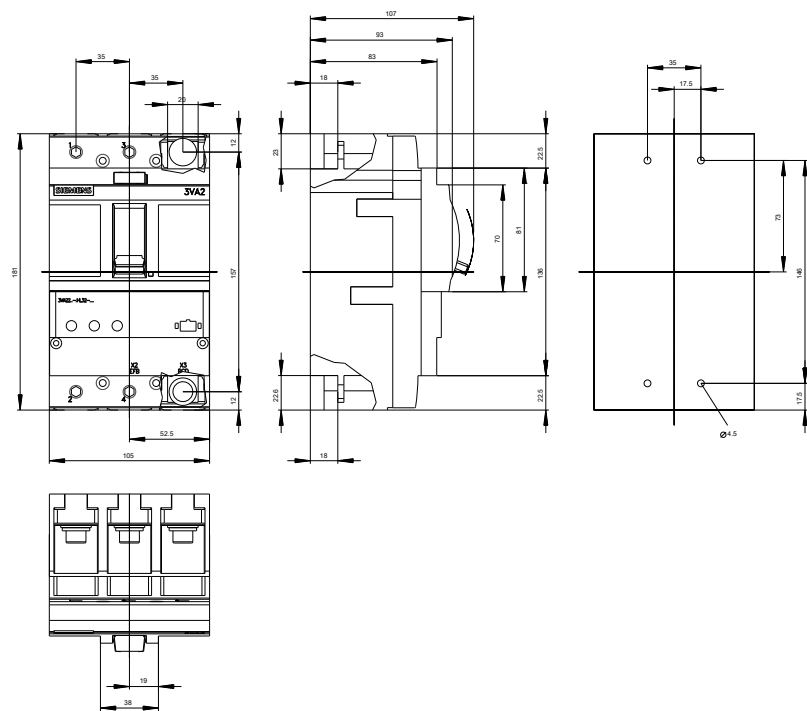
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2216-5HL32-0CC0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2216-5HL32-0CC0)

##### CAX-Online-Generator

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

##### Tender specifications

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



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