



CIRCUIT BREAKER 3VA2 IEC FRAME 1000 BREAKING  
CAPACITY CLASS C ICU=110KA @ 415 V 3-POLE, LINE  
PROTECTION ETU320, LI, IN=1000A OVERLOAD PROTECTION  
IR=400A ...1000A SHORT CIRCUIT PROTECTION II=1,5...10 X IN  
BUSBAR CONNECTION

| 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                           |

| 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 | 123 W  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole   | 41 W   |
| Mechanical service life (switching cycles) / typical                                             | 10 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                        | 5 000  |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz                            | 4 000  |

|                                               |         |
|-----------------------------------------------|---------|
| Neutral conductors / upgradeable/retrofitable | No      |
| Ground fault monitoring version               | Without |
| Product function                              |         |
| • communication function                      | No      |
| • other measurement function                  | No      |

#### Electricity

|                                                                   |         |
|-------------------------------------------------------------------|---------|
| Max. rated operational voltage of the size of the circuit-breaker | 1 000 A |
| Courant permanent assigné Iu                                      | 1 000 A |
| Operating current                                                 |         |
| • at 40 °C                                                        | 1 000 A |
| • at 45 °C                                                        | 1 000 A |
| • at 50 °C                                                        | 1 000 A |
| • at 55 °C                                                        | 1 000 A |
| • at 60 °C                                                        | 955 A   |
| • at 65 °C                                                        | 885 A   |
| • at 70 °C                                                        | 815 A   |

#### Switching capacity according to IEC 60947

|                                                           |        |
|-----------------------------------------------------------|--------|
| Switching capacity class of the circuit breaker           | C      |
| Maximum short-circuit current breaking capacity (Icu)     |        |
| • at 240 V                                                | 200 kA |
| • at 415 V                                                | 110 kA |
| • at 690 V                                                | 35 kA  |
| Operational short-circuit current breaking capacity (Ics) |        |
| • at 240 V                                                | 150 kA |
| • at 415 V                                                | 83 kA  |
| • at 690 V                                                | 19 kA  |
| Short-circuit current making capacity (Icm)               |        |
| • at 240 V                                                | 440 kA |
| • at 415 V                                                | 242 kA |
| • at 690 V                                                | 74 kA  |

#### Adjustable parameters

|                                                                         |          |
|-------------------------------------------------------------------------|----------|
| Adjustable response value current / I <sub>g</sub> min.                 | 400 A    |
| Adjustable response value current / I <sub>g</sub> min.                 | 1 000 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.                 | 1 500 A  |
| Adjustable response value current / I <sub>i</sub> max.                 | 10 000 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        | Lug terminal   |

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

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



[Miscellaneous](#)

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## 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=3VA2510-7HL32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2510-7HL32-0AA0>

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

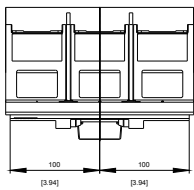
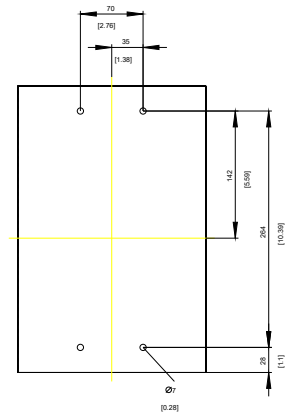
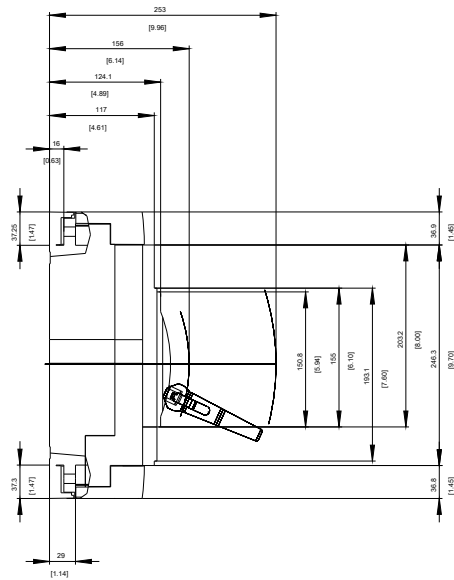
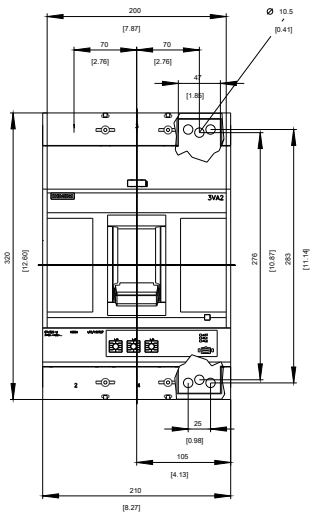
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2510-7HL32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2510-7HL32-0AA0)

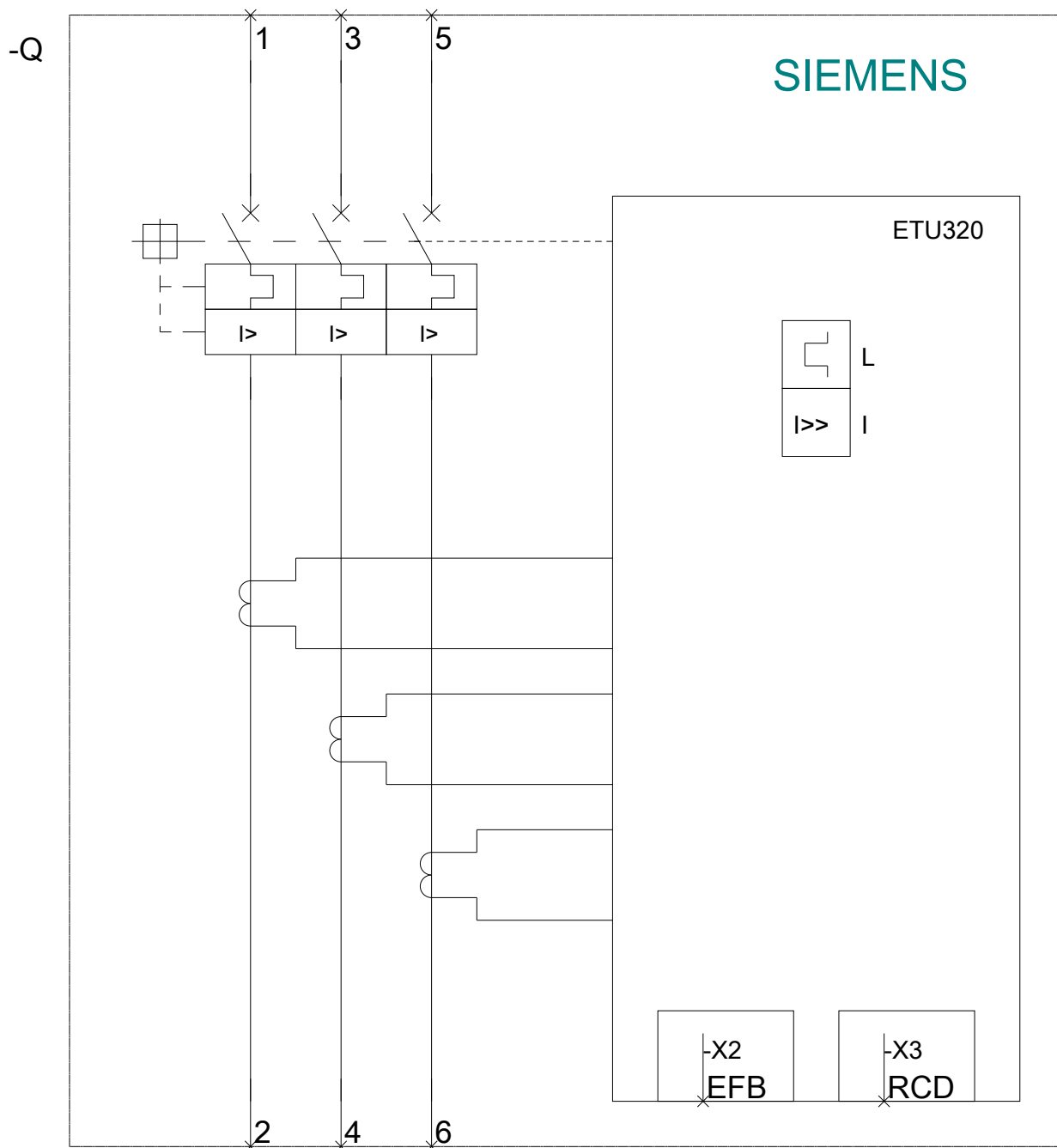
**CAX-Online-Generator**

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

**Tender specifications**

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





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