

CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3-POLE, LINE PROTECTION ETU350, LSI, IN=63A OVERLOAD PROTECTION IR=25,2A ...63A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN BUSBAR CONNECTION 3 AUXILIARY SWITCH HQ



| Model  |                             |
|--|-----------------------------|
| product brandname  | SENTRON                     |
| Product designation  | Molded case circuit breaker |
| Design of the product  | Line protection             |
| Design of the overcurrent release  | ETU350                      |
| Protective function of the overcurrent release   | LSI                         |
| Number of poles  | 3                           |
| Design of the auxiliary release  | Without auxiliary release   |
| Design of the auxiliary switch   | 3 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 | 4 W                         |
| Mechanical service life (switching cycles) / typical   | 20 000                      |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz                        | 12 000                      |
| Neutral conductors / upgradeable/retrofittable   | No                          |
| Ground fault monitoring version  | Without                     |

|                              |         |
|------------------------------|---------|
| Product function             |         |
| • communication function     | No      |
| • Phase failure detection    | No      |
| • other measurement function | No      |
| Net weight                   | 2.37 kg |

### Electricity

|   |           |
|---|-----------|
| Max. rated operational voltage of the size of the circuit-breaker | 160 A     |
| Courant permanent assigné Iu                                      | 63 A      |
| Operating current   |           |
| • at 40 °C  | 63 A      |
| • at 45 °C  | 63 A      |
| • at 50 °C  | 63 A      |
| • at 55 °C  | 60.6375 A |
| • at 60 °C  | 58.275 A  |
| • at 65 °C  | 55.9125 A |
| • at 70 °C  | 53.55 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  | 150 kA  |
| • at 415 V  | 110 kA  |
| • at 440 V  | 110 kA  |
| • at 500 V  | 85 kA   |
| • at 690 V  | 2.5 kA  |
| Operational short-circuit current breaking capacity (Ics) |         |
| • at 240 V  | 150 kA  |
| • at 415 V  | 110 kA  |
| • at 440 V  | 110 kA  |
| • at 500 V  | 85 kA   |
| • at 690 V  | 2.5 kA  |
| Short-circuit current making capacity (Icm)               |         |
| • at 240 V  | 330 kA  |
| • at 415 V  | 242 kA  |
| • at 440 V  | 242 kA  |
| • at 500 V  | 187 kA  |
| • at 690 V  | 5.25 kA |

### Adjustable parameters

|   |      |
|---|------|
| Adjustable response value current / I <sub>g</sub> min. | 25 A |
| Adjustable response value current / I <sub>g</sub> min. | 63 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>g</sub> min.            | 95 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 630 A  |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF | No     |
| Adjustable response value current / I <sub>g</sub> min.            | 0.02 s |
| Adjustable response value current / I <sub>g</sub> min.            | 0.4 s  |
| Adjustable response value current / I <sub>i</sub> min.            | 756 A  |
| Adjustable response value current / I <sub>i</sub> max.            | 756 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>No</li> <li>No</li> <li>No</li> <li>No</li> </ul> |
| Number of CO contacts / for auxiliary contacts   | 3  |

### 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> </ul> | <ul style="list-style-type: none"> <li><a href="#">3VA2163-7HN32-0AA0</a></li> <li><a href="#">3VA9988-0AA12</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

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### General Product Approval

### EMC

### Declaration of Conformity



CCC



VDE



[sonstig](#)



RCM



EG-Konf.

### Test Certificates

### Shipping Approval

[Typprüfbescheinigung/Werkszeugnis](#)

[sonstig](#)



ABS



BUREAU  
VERITAS



GL



LRS

### Shipping Approval

### other

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RMRS

## 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/3VA2163-7HN32-0AD0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2163-7HN32-0AD0/all>

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

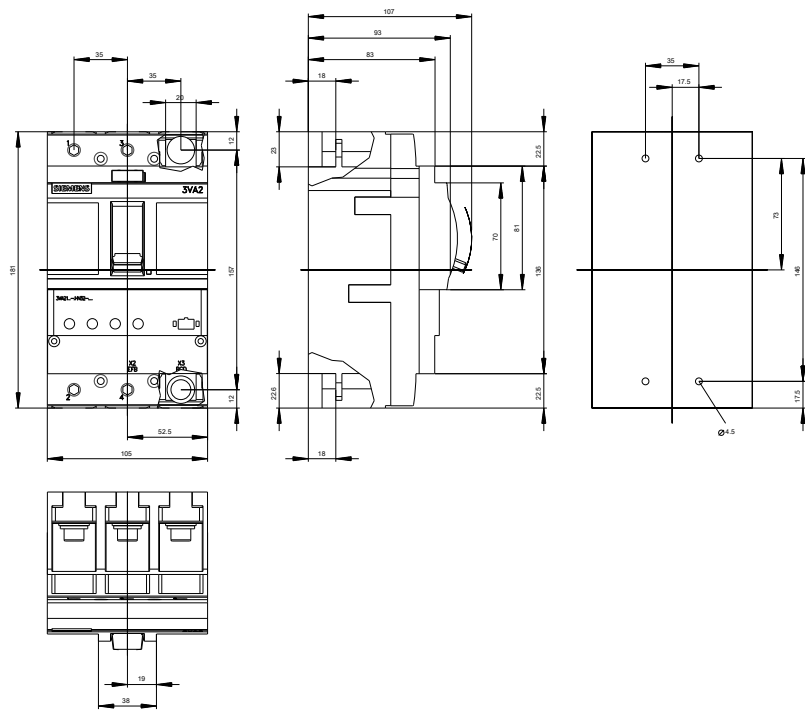
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2163-7HN32-0AD0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-7HN32-0AD0)

### CAX-Online-Generator

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

### Tender specifications

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



**last modified:**

10/29/2016