



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3-POLE, MOTOR PROTECTION ETU350M, LSI, IN=63A OVERLOAD PROTECTION IR=25,2A ...63A SHORT CIRCUIT PROTECTION ISD=3... 15 X IR, II=15 X IN BUSBAR CONNECTION UNDERVOLTAGE RELEASE (UVR) 208-230 V AC 50/50 HZ

| Model  |   |
|--|---|
| product brandname  | SENTRON                                       |
| Product designation  | Molded case circuit breaker                   |
| Design of the product  | Motor protection                              |
| Design of the overcurrent release  | ETU350M                                       |
| Protective function of the overcurrent release   | LSI   |
| Number of poles  | 3   |
| Design of the auxiliary release  | Without auxiliary release                     |
| Design of the auxiliary switch   | 2 auxiliary switches + 1 trip alarm switch HP |
| General technical data   |   |
| Tension assignée d'isolement Ui  | 800 V   |
| Max. rated operational voltage Ue with AC 50/60Hz  | 690 V   |
| Operating power / at AC-3 / at 400 V   | 22 W  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device | 75 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/retrofitable  | No  |

|                                 |          |
|---------------------------------|----------|
| Ground fault monitoring version | Without  |
| Product function                |          |
| • communication function        | No       |
| • Phase failure detection       | Yes      |
| • other measurement function    | No       |
| Net weight                      | 2.284 kg |

### Electricity

|   |         |
|---|---------|
| Max. rated operational voltage of the size of the circuit-breaker | 160 A   |
| Courant permanent assigné lu                                      | 63 A    |
| Operating current   |         |
| • at 40 °C  | 63 A    |
| • at 45 °C  | 63 A    |
| • at 50 °C  | 63 A    |
| • at 55 °C  | 60.48 A |
| • at 60 °C  | 59.22 A |
| • at 65 °C  | 57.96 A |
| • at 70 °C  | 56.7 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  | 25 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  | 25 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  | 52.5 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.            | 4      |
| Adjustable response value current / I <sub>g</sub> min.            | 17     |
| Adjustable response value current / I <sub>g</sub> min.            | 189 A  |
| Adjustable response value current / I <sub>g</sub> min.            | 945 A  |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF | No     |
| Adjustable response value current / I <sub>g</sub> min.            | 0.03 s |
| Adjustable response value current / I <sub>g</sub> min.            | 0.03 s |
| Adjustable response value current / I <sub>i</sub> min.            | 945 A  |
| Adjustable response value current / I <sub>i</sub> max.            | 945 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   |

### Auxiliary circuit

|   |     |
|---|-----|
| Product component   |     |
| <ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>                      | No  |
| <ul style="list-style-type: none"> <li>• Voltage trigger</li> </ul>                           | No  |
| <ul style="list-style-type: none"> <li>• undervoltage release with leading contact</li> </ul> | No  |
| <ul style="list-style-type: none"> <li>• Trip indicator</li> </ul>                            | Yes |
| 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> </ul>                    | <a href="#">3VA2163-7MN32-0AA0</a> |
| <ul style="list-style-type: none"> <li>• of the integrated auxiliary switch/alarm switch</li> </ul> | <a href="#">3VA9988-0AA11</a>      |
| <ul style="list-style-type: none"> <li>• of the integrated auxiliary switch/alarm switch</li> </ul> | <a href="#">3VA9988-0AB11</a>      |

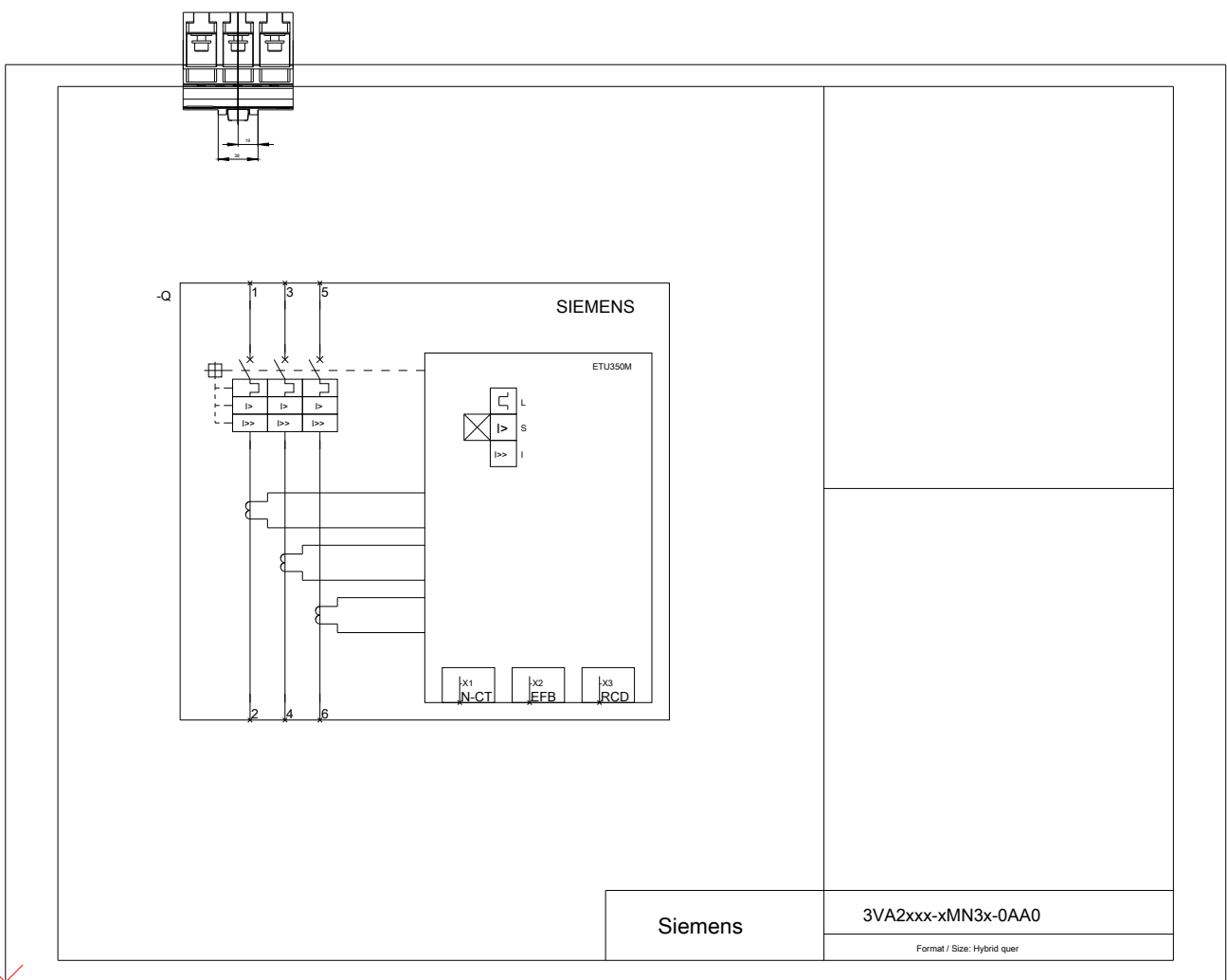
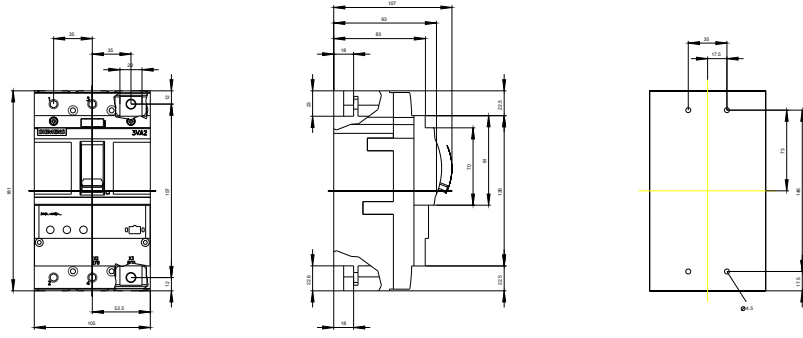
### Environmental conditions

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

### Certificates

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

**other**[sonstig](#)**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/3VA2163-7MN32-0AJ0>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/3VA2163-7MN32-0AJ0/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2163-7MN32-0AJ0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-7MN32-0AJ0)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>



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