



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, MOTOR PROTECTION ETU350M, LSI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=3... 15 X IR, II=15 X IN BUSBAR CONNECTION 2 AUXILIARY SWITCH HP 1 TRIP ALARM SWITCH HP 1 ELECTRICAL ALARM SWITCH HP

| 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                | Shunt trip (STL)            |
| 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  |
| Operating power / at AC-3 / at 400 V                                                             | 15 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                                      | 40 A   |
| Operating current                                                 |        |
| • at 40 °C                                                        | 40 A   |
| • at 45 °C                                                        | 40 A   |
| • at 50 °C                                                        | 40 A   |
| • at 55 °C                                                        | 38.4 A |
| • at 60 °C                                                        | 37.6 A |
| • at 65 °C                                                        | 36.8 A |
| • at 70 °C                                                        | 36 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                                                | 10 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                                                | 10 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                                                | 75.6 kA |
| • at 690 V                                                | 17 kA   |

#### Adjustable parameters

|                                             |      |
|---------------------------------------------|------|
| Adjustable response value current / Ig min. | 16 A |
|---------------------------------------------|------|

|                                                                    |        |
|--------------------------------------------------------------------|--------|
| Adjustable response value current / I <sub>g</sub> min.            | 40 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.            | 120 A  |
| Adjustable response value current / I <sub>g</sub> min.            | 600 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.            | 600 A  |
| Adjustable response value current / I <sub>i</sub> max.            | 600 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                              |     |
| • undervoltage release                         | No  |
| • Voltage trigger                              | Yes |
| • 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="#">3VA2140-5MN32-0AA0</a> |
| • of the integrated auxiliary switch/alarm switch | <a href="#">3VA9988-0AA12</a>      |
| • of the integrated auxiliary trip                | 3VA9688-0BL33                      |

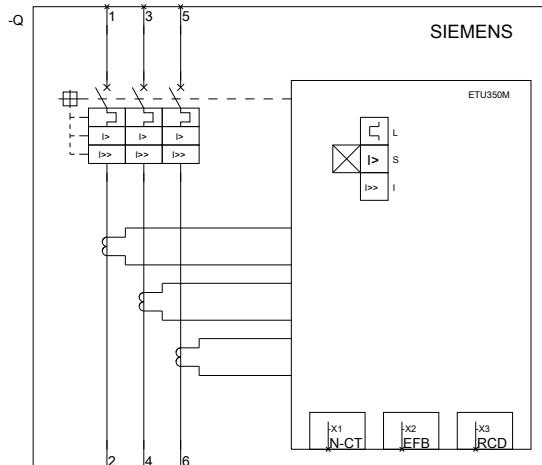
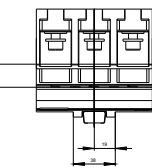
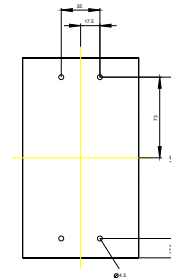
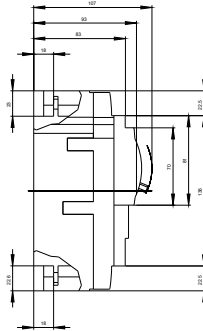
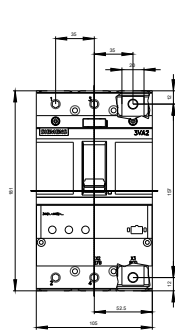
## Environmental conditions

|                                    |        |
|------------------------------------|--------|
| 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

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

[sonstig](#)**other**[Bestätigungen](#)[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/3VA2140-5MN32-0KC0>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/3VA2140-5MN32-0KC0/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2140-5MN32-0KC0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-5MN32-0KC0)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>



Siemens

3VA2xxx-xMN3x-0AA0

Format / Size: Hybrid quer

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