# **SIEMENS**

### Data sheet

## 3VA2140-5HN32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU350, LSI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN BUSBAR CONNECTION

| Model                                       |                             |
|---|-----------------------------|
| product brand name                          | SENTRON                     |
| Product designation                         | Molded case circuit breaker |
| Design of the product                       | Line protection             |
| Product variations                          | Selective Applications      |
| Ground fault monitoring version             | Without                     |
| Design of the auxiliary release             | without auxiliaryrelease    |
| Design of the auxiliary switch              | Without                     |
| Design of the operating mechanism           | toggle handle               |
| Type of the driving mechanism / motor drive | No                          |
| Design of the overcurrent release           | ETU350                      |
| Company to a local data                     |                             |

| General technical data  |        |
|---|--------|
| Number of poles   | 3      |
| Trip class / of the L-trip / with I2t characteristic / initial value    | 0.5    |
| Trip class / of the L-trip / with I2t characteristic / Full-scale value | 17     |
| Electrical endurance (switching cycles)                                 |        |
| • at AC-1 / at 380/415 V / at 50/60 Hz                                  | 12 000 |
| circuit-breaker / Design  | 3VA    |
| Mechanical service life (switching cycles) / typical                    | 20 000 |

| Voltage                            |     |
|------------------------------------|-----|
| Insulation voltage / Rated value V | 800 |

#### Protection class

| Protection class IP   |   | IP40              |
|---|---|-------------------|
| Protection class IP / on the front  |   | IP40              |
| Protective function of the overcurrent release  |   | LSI               |
| Suitabing capacity  |   |                   |
| Switching capacity Switching capacity class of the circuit breaker                                |   | M                 |
| Ownering depasts states of the should broaker   |   | ***               |
| Dissipation   |   |                   |
| Active power loss   |   |                   |
| • maximum   | W | 1.6               |
| Electricity   |   |                   |
| Continuous current / Rated value / maximum  | Α | 160               |
| Continuous current / Rated value  | Α | 40                |
| Adjustable response value current / of the  | Α | 12                |
| instantaneous short-circuit release / initial value   |   |                   |
| Main circuit  |   |                   |
| Operating voltage   |   |                   |
| • with AC / at 50/60 Hz / Rated value   | V | 690               |
| Operating current   |   |                   |
| • at 40 °C / Rated value  | Α | 40                |
| • at 50 °C / Rated value  | Α | 40                |
| • at 60 °C / Rated value  | Α | 40                |
| • at 65 °C / Rated value  | Α | 40                |
| • at 70 °C / Rated value  | Α | 40                |
| Auxiliary circuit   |   |                   |
| Number of NC contacts / for auxiliary contacts  |   | 0                 |
| Number of NO contacts / for auxiliary contacts  |   | 0                 |
| Suitability   |   |                   |
| Suitability for use   |   | system protection |
| Adjustable parameters   |   |                   |
| Adjustable response value current   |   |                   |
| of I-trip / Full-scale value  | Α | 12                |
| of the short-time delayed short-circuit release /   | Α | 1.5               |
| initial value   |   |                   |
| • of the short-time delayed short-circuit release /   | Α | 10                |
| Full-scale value  |   |                   |
| Adjustable delay time   |   |                   |
| • of S-trip / with I2t characteristic / initial value   | S | 0.02              |
| <ul> <li>of S-trip / with I2t characteristic / Full-scale<br/>value</li> </ul>                    | s | 0.4               |
| Adjustable response value current / of the current-<br>dependent overload release / initial value | Α | 0.4               |

| Product details   |    |                    |
|---|----|--------------------|
| Product component   |    |                    |
| Trip indicator  |    | No                 |
| • display   |    | No                 |
| undervoltage release  |    | No                 |
| Product property  |    |                    |
| <ul> <li>for neutral conductors /<br/>upgradeable/retrofittable / Short-circuit and<br/>overload proof</li> </ul> |    | No                 |
| Product expansion / optional / motor drive  |    | Yes                |
| Product function  |    |                    |
| Product function  |    |                    |
| Intrinsic device protection   |    | Yes                |
| • communication function  |    | No                 |
| Phase failure detection   |    | No                 |
| • other measurement function  |    | No                 |
| Accessories   |    |                    |
| Manufacturer article number / of the supplied basic   |    | 3VA2140-5HN32-0AA0 |
| switch  |    |                    |
| Short circuit   |    |                    |
| Operational short-circuit current breaking capacity   |    |                    |
| (Ics)   |    |                    |
| • at 240 V / Rated value  | kA | 85                 |
| ● at 415 V / Rated value  | kA | 55                 |
| • at 440 V / Rated value  | kA | 55                 |
| • at 500 V / Rated value  | kA | 36                 |
| • at 690 V / Rated value  | kA | 2.5                |
| Maximum short-circuit current breaking capacity (Icu)   |    |                    |
| • at 240 V / Rated value  | kA | 85                 |
| • at 415 V / Rated value  | kA | 55                 |
| • at 440 V / Rated value  | kA | 55                 |
| • at 500 V / Rated value  | kA | 36                 |
| • at 690 V / Rated value  | kA | 2.5                |
| Short-circuit current making capacity (lcm)   |    |                    |
| • at 240 V / Rated value  | kA | 187                |
| • at 415 V / Rated value  | kA | 121                |
| • at 440 V / Rated value  | kA | 121                |
| • at 500 V / Rated value  | kA | 79                 |
| • at 690 V / Rated value  | kA | 3.75               |
| Connections   |    |                    |

Connections

| Arrangement of electrical connectors / for main current circuit | Front terminal |
|---|----------------|
| Type of connectable conductor cross-section                     |                |
| <ul> <li>for flat-bar terminal connection / minimum</li> </ul>  | 13 x 1 mm      |
| • for flat-bar terminal connection / maximum                    | 25 x 8.5       |
| Type of electrical connection / for main current circuit        | Lug terminal   |
|   |                |

| Mechanical Design |    |                |  |  |
|-------------------|----|----------------|--|--|
| Height            | mm | 181            |  |  |
| Width             | mm | 105            |  |  |
| Depth             | mm | 107            |  |  |
| Mounting type     |    | fixed mounting |  |  |

| Environmental conditions                     |    |     |
|--|----|-----|
| Ambient temperature                          |    |     |
| <ul><li>during operation / minimum</li></ul> | °C | -25 |
| <ul><li>during operation / maximum</li></ul> | °C | 70  |
| <ul> <li>during storage / minimum</li> </ul> | °C | -40 |
| <ul><li>during storage / maximum</li></ul>   | °C | 80  |

| ( | Certificates             |   |  |
|---|--------------------------|---|--|
|   | Equipment marking        |   |  |
|   | • acc. to DIN EN 61346-2 | Q |  |
|   | • acc. to DIN EN 81346-2 | Q |  |
|   |                          |   |  |

| General Product Approval | EMC | Declaration of | Shipping |  |
|--------------------------|-----|----------------|----------|--|
|                          |     | Conformity     | Approval |  |
| ·                        |     |                |          |  |











| Shipping | other |
|----------|-------|
| Approval |       |



other

GL

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/3VA21405HN320AA0

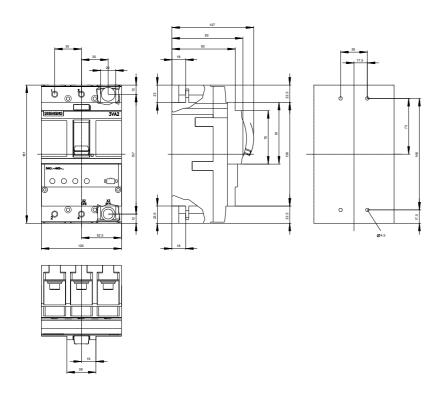
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21405HN320AA0/all

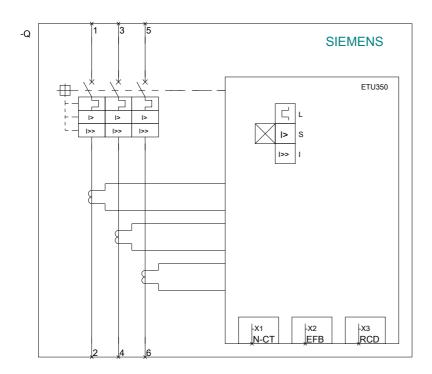
### **CAx-Online-Generator**

http://www.siemens.com/cax

### **Tender specifications**

http://ausschreibungstexte.siemens.com/tiplv





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