## Data sheet

## 3VA2225-5HM32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=250A OVERLOAD PROTECTION IR=100A ...250A SHORT CIRCUIT PROTECTION II=1,5...10 X IN GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS 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             | Summation current formation L-conductor |
| 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           | ETU330                                  |

| 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  |   | 10 000 |
| Total disconnection time / for G-tripping / with standard characteristic / initial value    | s | 0.1    |
| Total disconnection time / for G-tripping / with standard characteristic / Full-scale value | s | 0.3    |
| circuit-breaker / Design  |   | 3VA    |
| Mechanical service life (switching cycles) / typical  |   | 20 000 |

| Voltage   |     |                   |
|---|-----|-------------------|
| Insulation voltage / Rated value  | V   | 800               |
| Drotoction class  |     |                   |
| Protection class Protection class IP  |     | IP40              |
| Protection class IP / on the front  |     | IP40              |
| Protective function of the overcurrent release  |     | LIG               |
| . 101001110 1111011011 01 1110 0101011110111101110111   |     |                   |
| Switching capacity  |     |                   |
| Switching capacity class of the circuit breaker   |     | M                 |
| Dissipation   |     |                   |
| Active power loss   |     |                   |
| • maximum   | W   | 48                |
| Floatricity   |     |                   |
| Electricity  Continuous current / Rated value / maximum   | A   | 250               |
| Continuous current / Rated value  | A   | 250               |
| Adjustable response value current / of the  |     | 1.5               |
| instantaneous short-circuit release / initial value   | , , |                   |
|   |     |                   |
| Main circuit  |     |                   |
| Operating voltage   | V   | 000               |
| • with AC / at 50/60 Hz / Rated value   | V   | 690               |
| Operating current   | •   | 0.50              |
| • at 40 °C / Rated value  | A   | 250               |
| ● at 50 °C / Rated value  | Α   | 250               |
| • at 60 °C / Rated value  | Α   | 250               |
| ● at 65 °C / Rated value  | Α   | 250               |
| • at 70 °C / Rated value  | Α   | 250               |
| Auxiliary circuit   |     |                   |
| Number of NC contacts / for auxiliary contacts  |     | 0                 |
| Number of NO contacts / for auxiliary contacts  |     | 0                 |
| 0.75.177  |     |                   |
| Suitability Suitability for use   |     | system protection |
| Cultability for use   |     | System protection |
| Adjustable parameters   |     |                   |
| Adjustable response value current   |     |                   |
| <ul> <li>for G-tripping / with standard characteristic /<br/>initial value</li> </ul>             | Α   | 0.2               |
| <ul> <li>for G-tripping / with standard characteristic /<br/>Full-scale value</li> </ul>          | Α   | 1                 |
| • of I-trip / Full-scale value  | Α   | 10                |
| Adjustable response value current / of the current-<br>dependent overload release / initial value | А   | 0.4               |
| -   |     |                   |

| Product details   |          |     |
|---|----------|-----|
| Product component   |          |     |
| Trip indicator  |          | No  |
| • display   |          | No  |
| undervoltage release  |          | No  |
| Product property  |          |     |
| of the circuit breaker with tripping unit / Tripping                            |          | Yes |
| characteristic adjustable   |          |     |
| • for neutral conductors /  |          | No  |
| upgradeable/retrofittable / Short-circuit and                                   |          |     |
| overload proof  Product expansion / optional / motor drive                      |          | Yes |
| Product expansion / optional / motor drive                                      |          | Tes |
| Product function  |          |     |
| Product function  |          |     |
| Intrinsic device protection   |          | Yes |
| <ul> <li>communication function</li> </ul>                                      |          | No  |
| Phase failure detection   |          | No  |
| <ul> <li>other measurement function</li> </ul>                                  |          | No  |
| Accessories   |          |     |
| Short circuit   |          |     |
| Operational short-circuit current breaking capacity                             |          |     |
| (Ics)   | kA       | 85  |
| • at 240 V / Rated value  | kA<br>kA |     |
| • at 415 V / Rated value  | kA       | 55  |
| • at 440 V / Rated value  |          | 55  |
| at 500 V / Rated value  | kA<br>kA | 36  |
| at 690 V / Rated value  Maximum short sireuit current breaking conceits (lou)   | kA       | 3   |
| Maximum short-circuit current breaking capacity (Icu)  ● at 240 V / Rated value | kA       | 85  |
|   | kA       | 55  |
| <ul><li>at 415 V / Rated value</li><li>at 440 V / Rated value</li></ul>         | kA       | 55  |
|   | kA       | 36  |
| at 500 V / Rated value  at 600 V / Rated value                                  | kA       | 3   |
| at 690 V / Rated value  Short-circuit current making capacity (lcm)             | NA.      |     |
| at 240 V / Rated value  | kA       | 187 |
| at 240 V / Rated value  at 415 V / Rated value                                  | kA       | 121 |
|   | kA       | 121 |
| • at 440 V / Rated value  | kA       | 79  |
| • at 500 V / Datad value  |          |     |
| <ul><li>at 500 V / Rated value</li><li>at 690 V / Rated value</li></ul>         | kA       | 4.5 |

| 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 |  |  |  |  |
|--------------|--|--|--|--|
|              |  |  |  |  |
| Q            |  |  |  |  |
| Q            |  |  |  |  |
|              |  |  |  |  |

| General Prod | uct Approval | EMC       | Declaration of<br>Conformity | other |
|--------------|--------------|-----------|------------------------------|-------|
|              | ^            | <br>other |                              | other |







## 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/3VA22255HM320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA22255HM320AA0/all

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

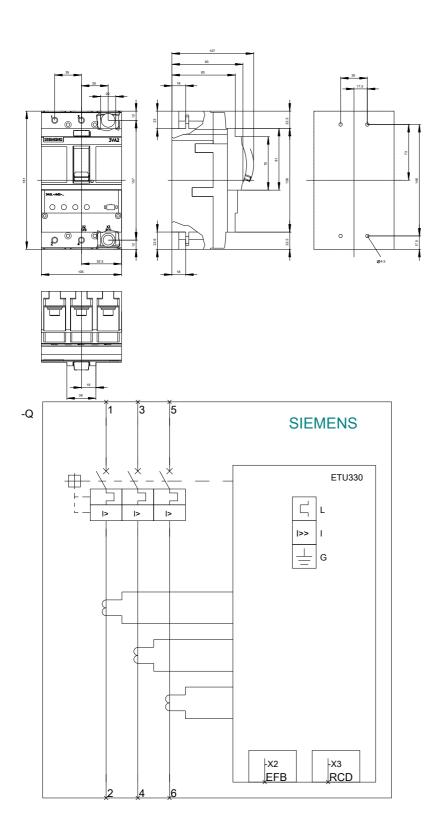
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA22255HM320AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv



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