## **SIEMENS**

## Datasheet

## 3VA1125-6EE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=25A OVERLOAD PROTECTION IR=17,5A ...25A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED BUSBAR CONNECTION

Figure similar

| Model   |   |                             |
|---|---|-----------------------------|
| product brand name  |   | SENTRON                     |
| Product designation   |   | Molded case circuit breaker |
| Design of the product   |   | Line protection             |
| Product variations  |   | General Applications        |
| Ground fault monitoring version   |   | Without                     |
| Design of the auxiliary release   |   | Without auxiliary release   |
| 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   |   | TM220                       |
| General technical data  |   |                             |
| Number of poles   |   | 4                           |
| Trip class / of the L-trip / with I2t characteristic / initial value        |   | 1                           |
| Trip class / of the L-trip / with I2t characteristic / Full-<br>scale value |   | 1                           |
| Electrical endurance (switching cycles)                                     |   |                             |
| • at AC-1 / at 380/415 V / at 50/60 Hz                                      |   | 8 000                       |
| circuit-breaker / Design  |   | 3VA                         |
| Mechanical service life (switching cycles) / typical                        |   | 15 000                      |
| Voltage   |   |                             |
| Insulation voltage  |   |                             |
| Rated value   | V | 800                         |
|   |   |                             |

| Protection class  |     |                   |
|---|-----|-------------------|
| Protective function of the overcurrent release                    |     | LI                |
| Switching capacity  |     |                   |
| Switching capacity class of the circuit breaker                   | _   | Н                 |
|   |     |                   |
| Dissipation   |     |                   |
| Active power loss   | 14/ | <b>A</b> 5        |
| • maximum   | W   | 8.5               |
| Electricity   |     |                   |
| Operating current / at 45 °C / Rated value                        | А   | 25                |
| Continuous current / Rated value / maximum                        | А   | 160               |
| Continuous current  |     |                   |
| Rated value   | А   | 25                |
| Adjustable response value current                                 |     |                   |
| <ul> <li>of the current-dependent overload release /</li> </ul>   | А   | 1                 |
| Full-scale value  |     |                   |
| of the instantaneous short-circuit release / initial              | A   | 10                |
| value   |     | 4 000             |
| Net weight  | g   | 1 200             |
| Main circuit  |     |                   |
| Operating voltage   |     |                   |
| • with AC / at 50/60 Hz / Rated value                             | V   | 690               |
| <ul> <li>for DC / Rated value</li> </ul>                          | V   | 600               |
| Operating current   |     |                   |
| • at 40 °C / Rated value  | А   | 25                |
| ● at 50 °C / Rated value  | А   | 25                |
| ● at 55 °C / Rated value  | А   | 24                |
| • at 60 °C / Rated value  | А   | 24                |
| • at 65 °C / Rated value  | А   | 23                |
| • at 70 °C / Rated value  | А   | 23                |
| Auxiliary circuit   |     |                   |
| Number of CO contacts   |     |                   |
| <ul> <li>for auxiliary contacts</li> </ul>                        |     | 0                 |
| Suitability   |     |                   |
| Suitability for use   |     | system protection |
|   |     |                   |
| Adjustable parameters   |     |                   |
| Adjustable response value current                                 | ٨   | 10                |
| of I-trip / Full-scale value                                      | A   | 10                |
| • for N-conductor protection / initial value                      | A   | 0                 |
| <ul> <li>for N-conductor protection / Full-scale value</li> </ul> | A   | 0                 |

| Adjustable response value current / of the current-   | А  | 0.7                |
|---|----|--------------------|
| dependent overload release / initial value  |    |                    |
| Appearance  |    |                    |
| Product details   |    |                    |
| Product component   |    |                    |
| Trip indicator  |    | No                 |
| • display   |    | No                 |
| Voltage trigger   |    | No                 |
| <ul> <li>undervoltage release</li> </ul>  |    | No                 |
| <ul> <li>undervoltage release with leading contact</li> </ul>   |    | 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  |    |                    |
| <ul> <li>Intrinsic device protection</li> </ul>   |    | Yes                |
| <ul> <li>communication function</li> </ul>  |    | No                 |
| Phase failure detection   |    | No                 |
| <ul> <li>other measurement function</li> </ul>  |    | No                 |
| Accessories   |    |                    |
| Manufacturer article number / of the supplied basic<br>switch   |    | 3VA1125-6EE42-0AA0 |
| Short circuit   |    |                    |
| Operational short-circuit current breaking capacity   |    |                    |
| (lcs)   |    |                    |
| • at 240 V / Rated value  | kA | 100                |
| • at 415 V / Rated value  | kA | 70                 |
| • at 440 V / Rated value  | kA | 36                 |
| • at 500 V / Rated value  | kA | 15                 |
| • at 690 V / Rated value  | kA | 5                  |
| Maximum short-circuit current breaking capacity (Icu)   |    |                    |
| • at 240 V / Rated value  | kA | 100                |
| • at 415 V / Rated value  | kA | 70                 |
| • at 440 V / Rated value  | kA | 36                 |
| • at 500 V / Rated value  | kA | 20                 |
| • at 690 V / Rated value  | kA | 10                 |
|   |    |                    |

| • at 240 V / Rated value                                       | kA   | 220            |                      |       |
|--|------|----------------|----------------------|-------|
| • at 415 V / Rated value                                       | kA   | 154            |                      |       |
| ● at 690 V / Rated value                                       | kA   | 17             |                      |       |
| Connections  |      |                |                      |       |
| Arrangement of electrical connectors                           |      |                |                      |       |
| <ul> <li>for main current circuit</li> </ul>                   |      | Front terminal |                      |       |
| Type of connectable conductor cross-section                    |      |                |                      |       |
| <ul> <li>for flat-bar terminal connection / minimum</li> </ul> |      | 12 x 0         |                      |       |
| <ul> <li>for flat-bar terminal connection / maximum</li> </ul> |      | 17 x 6.5       |                      |       |
| Design of the electrical connection                            |      |                |                      |       |
| • for main current circuit                                     |      | Lug terminal   |                      |       |
| lechanical Design  |      |                |                      |       |
| Height   | mm   | 130            |                      |       |
| Width  | mm   | 101.6          |                      |       |
| Depth  | mm   | 70             |                      |       |
| Mounting type  |      | fixed mounting | 9                    |       |
| Invironmental 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   |      |                |                      |       |
| Reference code   |      |                |                      |       |
| • acc. to DIN EN 61346-2                                       |      | Q              |                      |       |
| • acc. to DIN EN 81346-2                                       |      | Q              |                      |       |
| General Product Approval EMC                                   |      | claration of   | Shipping<br>Approval | other |
|  | ther |                |                      | other |
|  |      | E              | GL                   |       |
|  |      |                |                      |       |

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

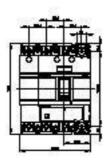
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11256EE420AA0

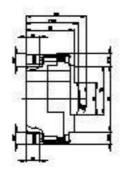
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11256EE420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11256EE420AA0

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Tender specifications http://ausschreibungstexte.siemens.com/tiplv





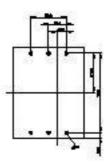




Figure similar

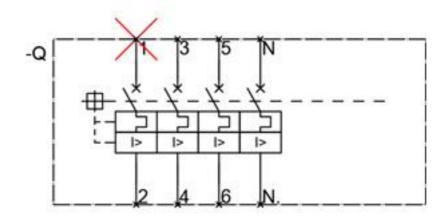


Figure similar

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