## **SIEMENS**

## Datasheet

## 3VA1150-6GF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=50A OVERLOAD PROTECTION IR=35A ...50A SHORT CIRCUIT PROTECTION II=5 X IN NEUTRAL PROTECTION 100% 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   |   | TM240                       |
| 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   | W  | 14.6              |
| • maximum   | VV | 14.0              |
| Electricity   |    |                   |
| Operating current / at 45 °C / Rated value                        | А  | 50                |
| Continuous current / Rated value / maximum                        | А  | 160               |
| Continuous current  |    |                   |
| Rated value   | А  | 50                |
| 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  | 5                 |
| value   | _  |                   |
| Net weight  | g  | 1 200             |
| Main circuit  |    |                   |
| Operating voltage   |    |                   |
| <ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>           | V  | 690               |
| <ul> <li>for DC / Rated value</li> </ul>                          | V  | 600               |
| Operating current   | -  |                   |
| • at 40 °C / Rated value  | А  | 50                |
| • at 50 °C / Rated value  | А  | 50                |
| • at 55 °C / Rated value  | А  | 49                |
| ● at 60 °C / Rated value  | А  | 48                |
| ● at 65 °C / Rated value  | А  | 46                |
| ● at 70 °C / Rated value  | А  | 45                |
| Auxiliary circuit   |    |                   |
| Number of CO contacts   | _  |                   |
| <ul> <li>for auxiliary contacts</li> </ul>                        |    | 0                 |
|   |    |                   |
| Suitability   |    | system protection |
| Suitability for use   |    |                   |
| Adjustable parameters   |    |                   |
| Adjustable response value current                                 |    |                   |
| • of I-trip / Full-scale value                                    | A  | 10                |
| <ul> <li>for N-conductor protection / initial value</li> </ul>    | А  | 100               |
| <ul> <li>for N-conductor protection / Full-scale value</li> </ul> | А  | 100               |

| 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                               |
| <ul> <li>Voltage trigger</li> </ul>  |                            | 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                               |
| <ul> <li>Phase failure detection</li> </ul>  |                            | No                               |
| <ul> <li>other measurement function</li> </ul>   |                            | No                               |
| Accessories  |                            |                                  |
| Manufacturer article number / of the supplied basic<br>switch  |                            | 3VA1150-6GF42-0AA0               |
| Short circuit  | _                          |                                  |
|  |                            |                                  |
| Operational short-circuit current breaking capacity  |                            |                                  |
| (Ics)  |                            | 100                              |
| (Ics)<br>● at 240 V / Rated value  | kA                         | 100                              |
| <ul> <li>(Ics)</li> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>  | kA                         | 70                               |
| (Ics)<br>● at 240 V / Rated value  | kA<br>kA                   | 70<br>36                         |
| <ul> <li>(Ics)</li> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>  | kA<br>kA<br>kA             | 70<br>36<br>15                   |
| (Ics)<br>• at 240 V / Rated value<br>• at 415 V / Rated value<br>• at 440 V / Rated value<br>• at 500 V / Rated value<br>• at 690 V / Rated value  | kA<br>kA                   | 70<br>36                         |
| <pre>(lcs)</pre>   | kA<br>kA<br>kA<br>kA       | 70<br>36<br>15<br>5              |
| (Ics)<br>• at 240 V / Rated value<br>• at 415 V / Rated value<br>• at 440 V / Rated value<br>• at 500 V / Rated value<br>• at 690 V / Rated value  | kA<br>kA<br>kA<br>kA<br>kA | 70<br>36<br>15                   |
| <pre>(lcs)</pre>   | kA<br>kA<br>kA<br>kA       | 70<br>36<br>15<br>5              |
| (Ics)<br>• at 240 V / Rated value<br>• at 415 V / Rated value<br>• at 440 V / Rated value<br>• at 500 V / Rated value<br>• at 690 V / Rated value<br>Maximum short-circuit current breaking capacity (Icu)<br>• at 240 V / Rated value                             | kA<br>kA<br>kA<br>kA<br>kA | 70<br>36<br>15<br>5              |
| (Ics)<br>• at 240 V / Rated value<br>• at 415 V / Rated value<br>• at 440 V / Rated value<br>• at 500 V / Rated value<br>• at 690 V / Rated value<br>Maximum short-circuit current breaking capacity (Icu)<br>• at 240 V / Rated value<br>• at 415 V / Rated value | kA<br>kA<br>kA<br>kA<br>kA | 70<br>36<br>15<br>5<br>100<br>70 |

| • 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                   |       |
|  |      |                |                      |       |

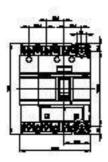
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

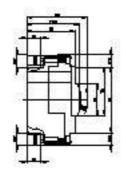
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11506GF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11506GF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11506GF420AA0

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





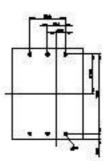




Figure similar

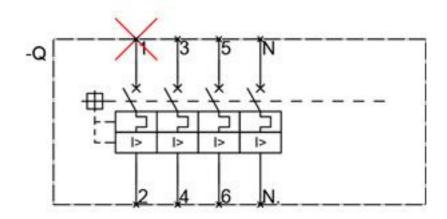


Figure similar

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