SIEMENS

Datasheet

3VA1116-4EF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=160A OVERLOAD PROTECTION IR=112A ...160A SHORT CIRCUIT PROTECTION II=5...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 | | 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- 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 |
| /oltage | | |
| Insulation voltage | | |
| Rated value | V | 800 |

| Protection class | | |
|---|---|-------------------|
| Protective function of the overcurrent release | | LI |
| Quitables especify | _ | |
| Switching capacity Switching capacity class of the circuit breaker | _ | S |
| | | č |
| Dissipation | | |
| Active power loss | | |
| • maximum | W | 38 |
| Electricity | | |
| Operating current / at 45 °C / Rated value | А | 160 |
| Continuous current / Rated value / maximum | А | 160 |
| Continuous current | | |
| Rated value | А | 160 |
| Adjustable response value current | | |
| of the current-dependent overload release / | А | 1 |
| Full-scale value | | |
| • of the instantaneous short-circuit release / initial | A | 5 |
| value | | 1.000 |
| Net weight | g | 1 200 |
| Main circuit | | |
| Operating voltage | | |
| with AC / at 50/60 Hz / Rated value | V | 690 |
| for DC / Rated value | V | 600 |
| Operating current | | |
| • at 40 °C / Rated value | А | 160 |
| ● at 50 °C / Rated value | А | 160 |
| ● at 55 °C / Rated value | А | 158 |
| • at 60 °C / Rated value | А | 155 |
| • at 65 °C / Rated value | А | 153 |
| ● at 70 °C / Rated value | А | 150 |
| Auxiliary circuit | | |
| Number of CO contacts | | |
| for auxiliary contacts | | 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 |
| for N-conductor protection / Full-scale value | 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 |
| undervoltage release | | No |
| undervoltage release with leading contact | | No |
| Product property | - | |
| for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof | | 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 switch | | 3VA1116-4EF42-0AA0 |
| | _ | |
| Short circuit Operational short-circuit current breaking capacity | | |
| (lcs) | | |
| • at 240 V / Rated value | kA | 55 |
| • at 415 V / Rated value | kA | 36 |
| • at 440 V / Rated value | kA | 25 |
| • 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 | 55 |
| • at 415 V / Rated value | kA | 36 |
| | kA | 25 |
| at 440 V / Rated value | | |
| at 500 V / Rated value | kA | 16 |
| | kA kA | 16 7 |

| • at 240 V / Rated value | kA | 121 | | |
|--|-----|----------------------------|----------------------|-------|
| • at 415 V / Rated value | kA | 75.6 | | |
| • at 690 V / Rated value | kA | 7.5 | | |
| Connections | | | | |
| Arrangement of electrical connectors | | | | |
| for main current circuit | | Front termin | nal | |
| Type of connectable conductor cross-section | | | | |
| for flat-bar terminal connection / minimum | | 12 x 0 | | |
| for flat-bar terminal connection / maximum | | 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 mount | ing | |
| Environmental conditions | | | | |
| Ambient temperature | | | | |
| during operation / minimum | °C | -25 | | |
| during operation / maximum | °C | 70 | | |
| during storage / minimum | °C | -40 | | |
| • during storage / maximum | °C | 80 | | |
| Certificates | | | | |
| Reference code | | | | |
| • acc. to DIN EN 61346-2 | | Q | | |
| • acc. to DIN EN 81346-2 | | Q | | |
| General Product Approval EMC | | eclaration of onformity | Shipping Approval | other |
| | her | | | other |
| | | t | GL | |
| | | | | |

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

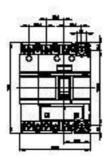
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11164EF420AA0

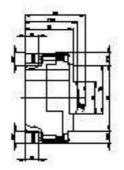
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11164EF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11164EF420AA0

nup.//www.siemens.com/c

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





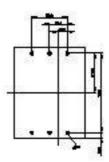




Figure similar



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