SIEMENS

Data sheet

3VA1120-3EF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=20A OVERLOAD PROTECTION IR=14A ...20A 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 | | |
| 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 | _ | L |
| Quitching consoity | _ | |
| Switching capacity Switching capacity class of the circuit breaker | _ | Ν |
| ownorking suparity class of the should breaker | | |
| Dissipation | _ | |
| Active power loss | | |
| • maximum | W | 12 |
| Electricity | | |
| Continuous current / Rated value / maximum | А | 160 |
| Continuous current / Rated value | А | 20 |
| Adjustable response value current | | |
| of the current-dependent overload release / Full-scale value | A | 1 |
| of the instantaneous short-circuit release / initial value | A | 5 |
| 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 | 20 |
| • at 50 °C / Rated value | А | 20 |
| • at 55 °C / Rated value | А | 20 |
| • at 60 °C / Rated value | А | 19 |
| • at 65 °C / Rated value | А | 19 |
| • at 70 °C / Rated value | А | 19 |
| Auxiliary circuit | | |
| Number of CO contacts / for auxiliary contacts | | 0 |
| Suitability | | |
| Suitability for use | | system protection |
| Adjustable parameters | | |
| Adjustable response value current | | |
| • of I-trip / Full-scale value | А | 10 |
| • for N-conductor protection / initial value | А | 0 |
| • for N-conductor protection / Full-scale value | А | 0 |
| Adjustable response value current / of the current- | А | 0.7 |
| dependent overload release / initial value | | |
| Product details | | |
| Product component | | |

| • Trip indicator | | No |
|---|----|---------------------------|
| • Trip indicator | | |
| • 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 | | <u>3VA1120-3EF42-0AA0</u> |
| Short circuit | | |
| Operational short-circuit current breaking capacity (Ics) | | |
| • at 240 V / Rated value | kA | 36 |
| • at 415 V / Rated value | kA | 25 |
| • at 440 V / Rated value | kA | 16 |
| • at 500 V / Rated value | kA | 8 |
| • at 690 V / Rated value | kA | 5 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| • at 240 V / Rated value | kA | 36 |
| • at 415 V / Rated value | kA | 25 |
| • at 440 V / Rated value | kA | 16 |
| • at 500 V / Rated value | kA | 8 |
| • at 690 V / Rated value | kA | 7 |
| Short-circuit current making capacity (Icm) | | |
| • at 240 V / Rated value | kA | 75.6 |
| • at 415 V / Rated value | kA | 52.5 |
| • at 690 V / Rated value | kA | 7.5 |
| Connections | | |
| Arrangement of electrical connectors / for main current circuit | | Front terminal |

Type of connectable conductor cross-section

| | er | EG-Konf. | |
|--|----|------------------------------|-------------------|
| General Product Approval EMC | | Declaration of Conformity | Shipping Approval |
| • acc. to DIN EN 81346-2 | | Q | |
| • acc. to DIN EN 61346-2 | | Q | |
| quipment marking | | | |
| ertificates | | | |
| during storage / maximum | °C | 80 | |
| during storage / minimum | °C | -40 | |
| during operation / maximum | °C | 70 | |
| during operation / minimum | °C | -25 | |
| Ambient temperature | | | |
| nvironmental conditions | | | |
| Mounting type | | fixed mount | ing |
| Depth | mm | 70 | |
| Vidth | mm | 101.6 | |
| leight | mm | 130 | |
| echanical Design | | | |
| Type of electrical connection / for main current circuit | | Lug termina | l |
| for flat-bar terminal connection / maximum | | 17 x 6.5 | |
| | | | |

| ⁻ urther | Intorm | ation |
|---------------------|--------|-------|
| ultilei | | allon |

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/3VA11203EF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11203EF420AA0/all

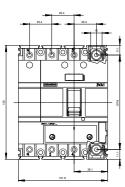
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11203EF420AA0

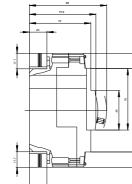
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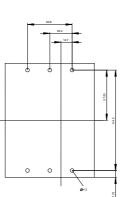
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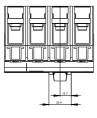
Tender specifications

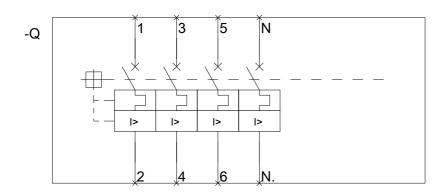
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last modified:

11.03.2015