SIEMENS

Data sheet

3VA2040-7KP46-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) CABLE 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 | Without |
| 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 | ETU850 |
| | |

| General technical data | |
|---|--------|
| Number of poles | 4 |
| 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 | 25 |
| Electrical endurance (switching cycles) | |
| • at AC-1 / at 380/415 V / at 50/60 Hz | 12 000 |
| circuit-breaker / Design | 3VA |
| Mechanical service life (switching cycles) / typical | 20 000 |

| Voltage | | |
|----------------------------------|---|-----|
| Insulation voltage / Rated value | V | 800 |
| insulation voitage / Rated value | V | 600 |

Protection class

| Protection class IP | | IP40 |
|--|---|-------------------|
| Protection class IP / on the front | | IP40 |
| Protective function of the overcurrent release | | LSI |
| Switching capacity | | |
| Switching capacity class of the circuit breaker | | С |
| D | | |
| Dissipation Active power loss | | |
| • maximum | W | 2.2 |
| - maximum | | |
| Electricity | | |
| Continuous current / Rated value / maximum | A | 100 |
| Continuous current / Rated value | Α | 40 |
| Adjustable response value current / of the instantaneous short-circuit release / initial value | Α | 1.5 |
| instantaneous short-circuit release / initial value | | |
| Main circuit | | |
| Operating voltage | | |
| • with AC / at 50/60 Hz / Rated value | V | 690 |
| Operating current | | |
| • at 40 °C / Rated value | Α | 40 |
| • at 50 °C / Rated value | Α | 40 |
| • at 60 °C / Rated value | Α | 40 |
| • at 65 °C / Rated value | Α | 40 |
| ● at 70 °C / Rated value | Α | 40 |
| Auxiliary circuit | | |
| Number of NC contacts / for auxiliary contacts | | 0 |
| Number of NO contacts / for auxiliary contacts | | 0 |
| Suitability | | |
| Suitability for use | | system protection |
| Adjustable parameters | | |
| Adjustable response value current | | |
| of I-trip / Full-scale value | Α | 12 |
| of the short-time delayed short-circuit release / | Α | 0.6 |
| initial value | | |
| of the short-time delayed short-circuit release / Full-scale value | Α | 10 |
| • of S-trip / with standard characteristic / initial value | Α | 0.6 |
| • of S-trip / with standard characteristic / Full-scale value | Α | 10 |
| Adjustable delay time | | |
| • of S-trip / with I2t characteristic / initial value | S | 0.05 |

| • of S-trip / with I2t characteristic / Full-scale | S | 0.5 |
|---|----------------------------|-------------------------------------|
| value | | 0.05 |
| of S-trip / with standard characteristic / initial value | S | 0.05 |
| of S-trip / with standard characteristic / Full- | S | 0.5 |
| scale value | | |
| Adjustable response value current / of the current- | Α | 0.4 |
| dependent overload release / initial value | | |
| Product details | | |
| Product component | | |
| Trip indicator | | No |
| ● display | | Yes |
| • undervoltage release | | No |
| Product property | | |
| for neutral conductors / | | No |
| upgradeable/retrofittable / Short-circuit and | | |
| overload proof | | |
| Product expansion / optional / motor drive | | Yes |
| Product function | | |
| Product function | | |
| Intrinsic device protection | | Yes |
| communication function | | Yes |
| Phase failure detection | | No |
| • other measurement function | | Yes |
| Accessories | | |
| Manufacturer article number / of the supplied basic | | 3VA2040-7KP46-0AA0 |
| switch | | |
| Short circuit | | |
| Operational short-circuit current breaking capacity | | |
| (Ics) | | |
| | | 450 |
| • at 240 V / Rated value | kA | 150 |
| • at 415 V / Rated value | kA | 110 |
| at 415 V / Rated valueat 440 V / Rated value | kA kA | 110 110 |
| • at 415 V / Rated value | kA kA kA | 110 110 85 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value | kA kA | 110 110 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value | kA kA kA kA | 110 110 85 2 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value | kA kA kA kA | 110 110 85 2 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) | kA kA kA kA | 110 110 85 2 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value | kA kA kA kA | 110 110 85 2 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value | kA kA kA kA | 110 110 85 2 150 110 |
| at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value | kA kA kA kA kA | 110 110 85 2 150 110 |

| • at 240 V / Rated value | kA | 330 |
|--------------------------|----|-----|
| • at 415 V / Rated value | kA | 242 |
| • at 440 V / Rated value | kA | 242 |
| • at 500 V / Rated value | kA | 187 |
| • at 690 V / Rated value | kA | 3 |
| | | |

| Connections | |
|--|-----------------|
| Arrangement of electrical connectors / for main | Front terminal |
| current circuit | |
| Type of connectable conductor cross-section | |
| of the round conductor terminal / stranded | 1 x (6-120 mm²) |
| Type of electrical connection / for main current circuit | Box terminal |

| Mechanical Design | | |
|-------------------|----|----------------|
| Height | mm | 181 |
| Width | mm | 140 |
| Depth | mm | 107 |
| Mounting type | | fixed mounting |

| 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 | |
|--------------------------|---|
| Equipment marking | |
| • acc. to DIN EN 61346-2 | Q |
| • acc. to DIN EN 81346-2 | Q |

| General Product Approval | EMC | Declaration of | Shipping |
|--------------------------|-----|----------------|----------|
| | | Conformity | Approval |
| | | | |







other C E



| Shipping | other |
|----------|-------|
| Approval | |



other

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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/3VA20407KP460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20407KP460AA0/all

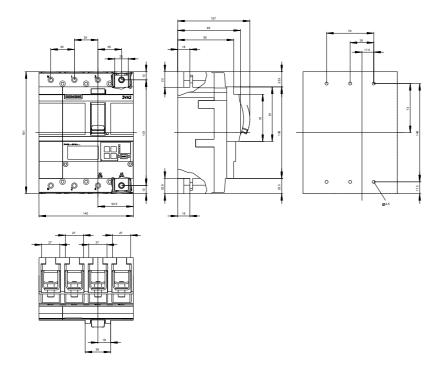
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20407KP460AA0

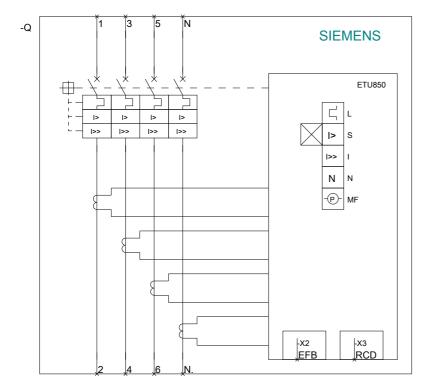
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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