SIEMENS

Data sheet

3VA2040-5HM42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION II=1,5...12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,100%) GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS BUSBAR 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 | | Summation current formation L + N conductor | | |
| Design of the auxiliary release | , | without auxiliaryrelease | | |
| Design of the auxiliary switch | , | Without | | |
| Design of the operating mechanism | 1 | toggle handle | | |
| Type of the driving mechanism / motor drive | | No | | |
| Design of the overcurrent release | | ETU330 | | |

| 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 | | 17 | | | |
| Electrical endurance (switching cycles) | | | | | |
| ● at AC-1 / at 380/415 V / at 50/60 Hz | | 12 000 | | | |
| Total disconnection time / for G-tripping / with standard characteristic / initial value | S | 0.1 | | | |
| Total disconnection time / for G-tripping / with standard characteristic / Full-scale value | S | 0.3 | | | |
| circuit-breaker / Design | | 3VA | | | |
| Mechanical service life (switching cycles) / typical | | 20 000 | | | |

| Voltage | | |
|-----------------------------------------------------------------------------------------------|------------|-------------------|
| Insulation voltage / Rated value | V | 800 |
| Drotaction class | | |
| Protection class IP | | IP40 |
| Protection class IP / on the front | | IP40 |
| Protective function of the overcurrent release | | LIG |
| . 10.000.00 | | |
| Switching capacity | | |
| Switching capacity class of the circuit breaker | | M |
| Dissipation | | |
| Active power loss | | |
| • maximum | W | 2.2 |
| Floatricity | | |
| Electricity Continuous current / Rated value / maximum | A | 100 |
| Continuous current / Rated value | A | 40 |
| Adjustable response value current / of the | A | 1.5 |
| instantaneous short-circuit release / initial value | | |
| | | |
| Main circuit Operating voltage | | |
| with AC / at 50/60 Hz / Rated value | V | 690 |
| | _ v | 030 |
| Operating current • at 40 °C / Rated value | Α | 40 |
| | | |
| • at 50 °C / Rated value | A | 40 |
| ● at 60 °C / Rated value | A | 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 | ٨ | 0.4 |
| for G-tripping / with standard characteristic / initial value | Α | 0.4 |
| for G-tripping / with standard characteristic / Full-scale value | Α | 1 |
| • of I-trip / Full-scale value | Α | 12 |
| Adjustable response value current / of the current-dependent overload release / initial value | Α | 0.4 |
| aspondent eventual release, illinai raide | | |

| Product details | | |
|-------------------------------------------------------------------------------|----------|-----|
| Product component | | |
| Trip indicator | | No |
| • display | | No |
| undervoltage release | | No |
| Product property | _ | |
| of the circuit breaker with tripping unit / Tripping | | Yes |
| characteristic adjustable | | |
| for neutral conductors / | | No |
| upgradeable/retrofittable / Short-circuit and | | |
| overload proof Product expansion / optional / motor drive | | Yes |
| Product expansion / optional / motor drive | | 165 |
| Product function | | |
| Product function | | |
| Intrinsic device protection | | Yes |
| communication function | | No |
| Phase failure detection | | No |
| other measurement function | | No |
| Accessories | | |
| Short circuit | | |
| Operational short-circuit current breaking capacity | | |
| (Ics) | kA | 85 |
| at 240 V / Rated value | kA kA | |
| • at 415 V / Rated value | kA kA | 55 |
| • at 440 V / Rated value | | 55 |
| at 500 V / Rated value | kA kA | 36 |
| at 690 V / Rated value Maximum short sireuit current breaking conceits (lou) | kA | 2 |
| Maximum short-circuit current breaking capacity (Icu) | kA | 85 |
| at 240 V / Rated valueat 415 V / Rated value | kA | 55 |
| | kA | 55 |
| at 440 V / Rated value at 500 V / Rated value | kA kA | 36 |
| at 500 V / Rated value at 600 V / Rated value | kA | 2 |
| at 690 V / Rated value Short-circuit current making capacity (lcm) | NA. | 2 |
| at 240 V / Rated value | kA | 187 |
| at 240 V / Rated value at 415 V / Rated value | kA | 121 |
| | kA | 121 |
| at 500 V / Rated value at 500 V / Rated value | kA kA | 79 |
| at 500 V / Rated value | N/A | 13 |
| ● at 690 V / Rated value | kA | 3 |

| Connections | |
|-----------------------------------------------------------------|----------------|
| Arrangement of electrical connectors / for main current circuit | Front terminal |
| Type of connectable conductor cross-section | |
| for flat-bar terminal connection / minimum | 13 x 1 mm |
| • for flat-bar terminal connection / maximum | 25 x 8.5 |
| Type of electrical connection / for main current circuit | Lug 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 Conformity | other | |
|--------------------------|---|-----|------------------------------|-------|-------|
| | ^ | | other | | other |







Further information

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/3VA20405HM420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20405HM420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

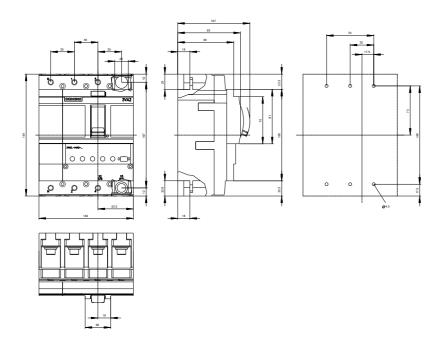
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20405HM420AA0

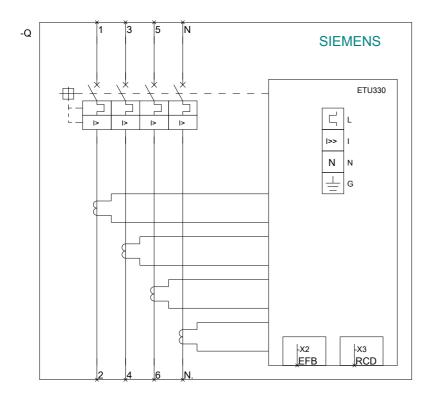
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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