SIEMENS

## Data sheet 3VA1325-5MH32-0AA0

Siemens EcoTech



circuit breaker 3VA1 IEC Frame 400 breaking capacity class M Icu=55 kA @ 415 V 3-pole, starter protection TM120M, AM, In=250 A without overload protection short-circuit protection Ii=8...16 x In nut keeper kit

| | |
|---|---|
| **Model** | |
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| design of the product | Starter protection |
| design of the overcurrent release | TM120M |
| protection function of the overcurrent release | I |
| number of poles | 3 |
| **General technical data** | |
| insulation voltage / rated value | 800 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 30 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 10 W |
| mechanical service life (operating cycles) / typical | 20 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 6 000 |
| electrical endurance (operating cycles) / at AC-1 / at 690 V | 4 200 |
| product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof | No |
| ground-fault monitoring version | Without |
| product function | |
| ● communication function | No |
| ● other measurement function | No |
| Net Weight | 4.93 kg |
| **Current** | |
| operational current | |
| ● at 40 °C | 250 A |
| ● at 45 °C | 250 A |
| ● at 50 °C | 250 A |
| ● at 55 °C | 245 A |
| ● at 60 °C | 239 A |
| ● at 65 °C | 234 A |
| ● at 70 °C | 228 A |
| **Switching capacity according to IEC 60947** | |
| switching capacity class of the circuit breaker | M |
| maximum short-circuit current breaking capacity (Icu) | |
| ● at 240 V | 85 kA |


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| | |
|---|---|
| ● at 415 V | 55 kA |
| ● at 440 V | 55 kA |
| ● at 500 V | 36 kA |
| ● at 690 V | 7 kA |
| operating short-circuit current breaking capacity (Ics) | |
| ● at 240 V | 85 kA |
| ● at 415 V | 55 kA |
| ● at 440 V | 55 kA |
| ● at 500 V | 36 kA |
| ● at 690 V | 5 kA |
| short-circuit current making capacity (Icm) | |
| ● at 240 V | 187 kA |
| ● at 415 V | 121 kA |
| ● at 440 V | 121 kA |
| ● at 500 V | 75.6 kA |
| ● at 690 V | 11.9 kA |
| design of short-circuit protection | For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter |
| **Adjustable parameters** | |
| adjustable response value setting current (Ii) / for I-tripping | |
| ● minimum | 2 000 A |
| ● maximum | 4 000 A |
| adjustable setting current (InN) / for N-tripping | |
| ● minimum | 250 A |
| ● maximum | 250 A |
| product function / grounding protection | No |
| **Mechanical Design** | |
| product component | |
| ● undervoltage release | No |
| ● voltage trigger | No |
| ● trip indicator | No |
| height [in] | 9.76 in |
| height | 248 mm |
| width [in] | 5.43 in |
| width | 138 mm |
| depth [in] | 4.33 in |
| depth | 110 mm |
| **Connections** | |
| arrangement of electrical connectors / for main current circuit | Front terminal |
| type of electrical connection / for main current circuit | nut keeper kit on both ends |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 20 x 1 mm |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 35 x 10 mm |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) | Silver |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | Silver |
| **Auxiliary circuit** | |
| number of CO contacts / for auxiliary contacts | 0 |
| **Accessories** | |
| product extension / optional / motor drive | Yes |
| **Environmental conditions** | |
| protection class IP / on the front | IP40 |
| ambient temperature | |
| ● during operation / minimum | -25 °C |
| ● during operation / maximum | 70 °C |
| ● during storage / minimum | -40 °C |
| ● during storage / maximum | 80 °C |


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| Environmental footprint | |
|---|---|
| global warming potential [CO2 eq] / total | 473 kg |
| global warming potential [CO2 eq] / during manufacturing | 23.9 kg |
| global warming potential [CO2 eq] / during operation | 450 kg |
| global warming potential [CO2 eq] / after end of life | -2.9 kg |
| **reference code / according to IEC 81346-2** | Q |

## Approvals / Certificates

### General Product Approval

Miscellaneous

Confirmation

| General Product Approval | EMV | Test Certificates | | |
|---|---|---|---|---|
| | | Type Test Certific-ates/Test Report | Miscellaneous | Special Test Certific-ate |

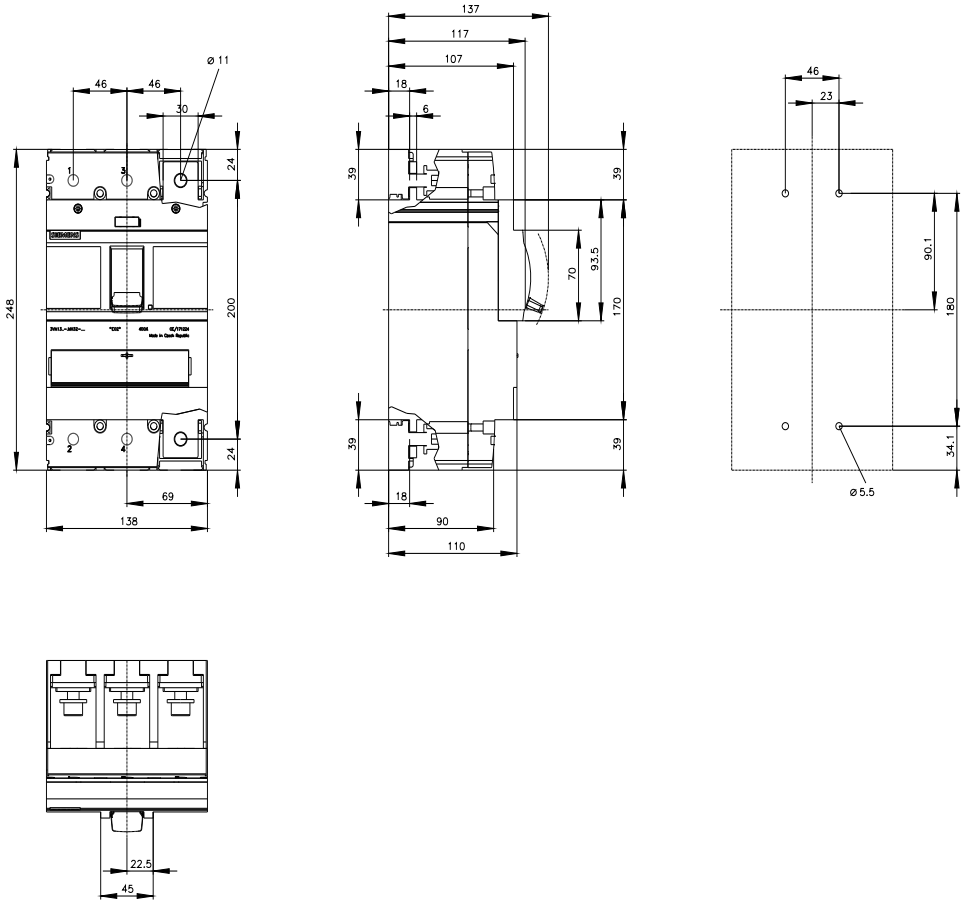
| Maritime application | other | |
|---|---|---|
| | Miscellaneous | Confirmation |

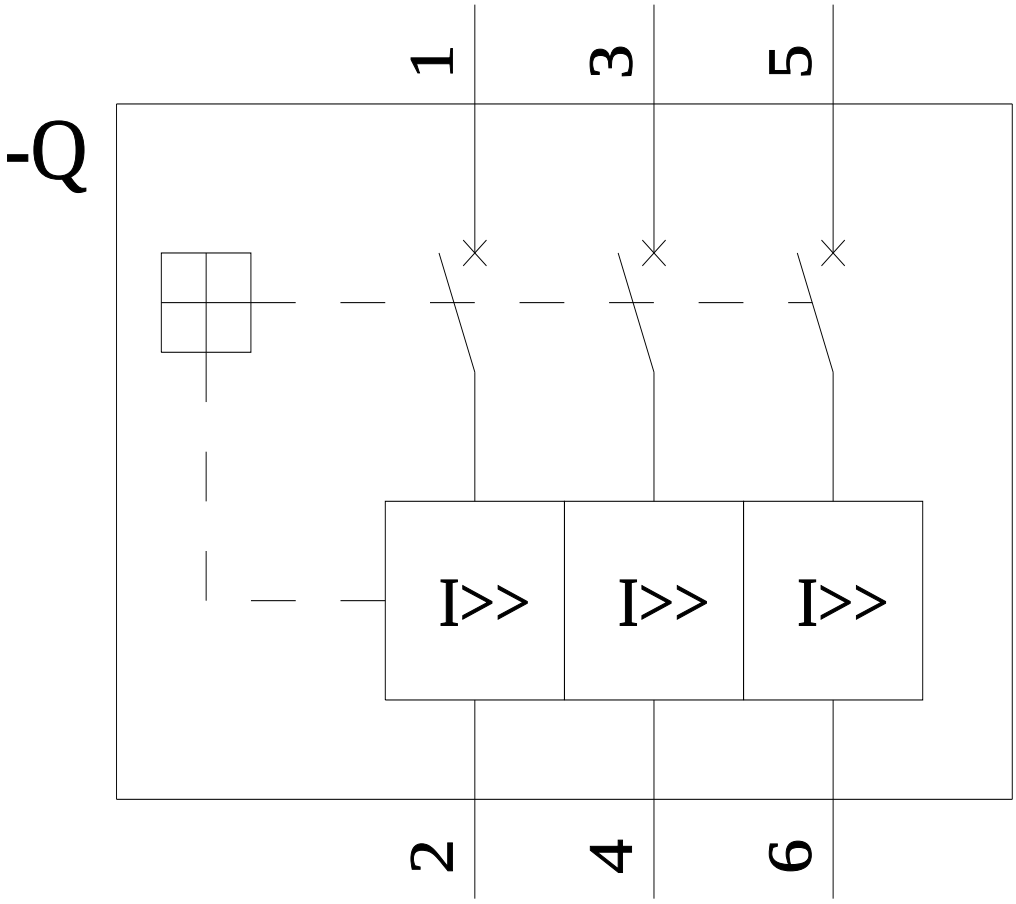
| other | Environment | | |
|---|---|---|---|
| | Environmental Con-firmations | Environmental Con-firmations | |

## Further information

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012
**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1325-5MH32-0AA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3VA1325-5MH32-0AA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1325-5MH32-0AA0
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications
**Kennlinien**
https://curves.simaris.siemens.com/curves/3VA1325-5MH32-0AA0


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**last modified:** 9/2/2026


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