SIEMENS

Data sheet

3VM1125-4GE42-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM220, ATFM, In=25A overload protection Ir=18A...25A short-circuit protection Ii=12.8 x In N conductor protection 100% nut keeper kit

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| design of the product | Line protection |
| design of the overcurrent release | TM220 |
| protection function of the overcurrent release | LI |
| number of poles | 4 |
| General technical data | |
| insulation voltage / rated value | 800 V |
| operating voltage / at AC / at 50/60 Hz / rated value | 500 V |
| operating voltage / at DC / rated value | 500 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 9 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 2.83 W |
| mechanical service life (operating cycles) / typical | 15 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 6 000 |
| 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 | 1.2 kg |
| Current | |
| operational current | |
| • at 40 °C | 25 A |
| ● at 45 °C | 25 A |
| • at 50 °C | 25 A |
| ● at 55 °C | 24 A |
| • at 60 °C | 24 A |
| • at 65 °C | 23 A |
| • at 70 °C | 23 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | S |
| maximum short-circuit current breaking capacity (lcu) | |
| • at 240 V | 55 kA |
| • at 415 V | 36 kA |
| • at 440 V | 25 kA |
| • at 500 V | 7 kA |
| operating short-circuit current breaking capacity (Ics) | |

| 41 kA |
|---|
| 27 kA |
| 18 kA |
| 5 kA |
| |
| 121 kA |
| 76 kA |
| 53 kA |
| 12 kA |
| For switching capacity values in DC power systems, see the 3VA Molded Case Circuit Breaker Manual; link available under Service & Support in the last chapter |
| |

| Adjustable parameters | |
|--|-----------------------------|
| product feature / for L-tripping / can be switched on/off | No |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic | |
| • minimum | 17 A |
| • maximum | 25 A |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic | |
| • minimum | 1 s |
| • maximum | 1 s |
| adjustable response value setting current (li) / for I-tripping | |
| • minimum | 320 A |
| • maximum | 320 A |
| adjustable setting current (InN) / for N-tripping | |
| • minimum | 25 A |
| • maximum | 25 A |
| adjustable current response value current / of instantaneous short-circuit trip unit | |
| • maximum | 320 A |
| design of the N-conductor protection | 100% |
| product function / grounding protection | No |
| Mechanical Design | |
| product component | |
| undervoltage release | No |
| voltage trigger | No |
| trip indicator | No |
| height [in] | 5.12 in |
| height | 130 mm |
| width [in] | 4 in |
| width | 101.6 mm |
| depth [in] | 2.76 in |
| depth | 70 mm |
| Connections | |
| arrangement of electrical connectors / for main current circuit | Front connection |
| 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 | 12 x 1 mm |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 17 x 6.5 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) $% \left(1, 2, 2, 3, 6 \right)$ | Tin |
| Auxiliary circuit | |
| number of CO contacts / for auxiliary contacts | 0 |
| Accessories | |
| product extension / optional / motor drive | No |
| Environmental conditions | |
| protection class IP / on the front | IP40 |
| ambient temperature | |
| during operation / minimum | -25 °C |
| | |

| • during operation | / maximum | 70 ° | С | | |
|--|----------------------|----------------------|----------------------------------|----------------------------------|--------------------------|
| during storage / r | ninimum | -40 ° | °C | | |
| during storage / r | naximum | 80 ° | C | | |
| Approvals / Certificates | | | | | |
| General Product Appr | oval | | | | |
| <u>Confirmation</u> | | UK CA | CE EG-Konf. | | Miscellaneous |
| General Product Ap- proval | Test Certificates | Marine / Shipping | | | |
| EHC | <u>Miscellaneous</u> | ABS | B UREAU VERITAS | | Llovds Register us |
| Marine / Shipping | other | | Environment | | |
| KMRS RMRS | <u>Confirmation</u> | <u>Miscellaneous</u> | Environmental Con- firmations | Environmental Con- firmations | |

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/ atalo

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VM1125-4GE42-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VM1125-4GE42-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1125-4GE42-0AA0

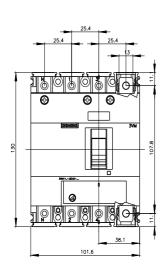
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlf

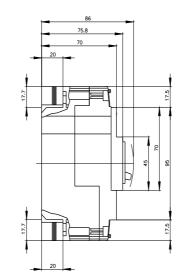
CAx-Online-Generator

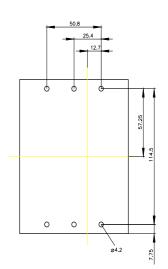
http://www.siemens.com/cax

Tender specifications

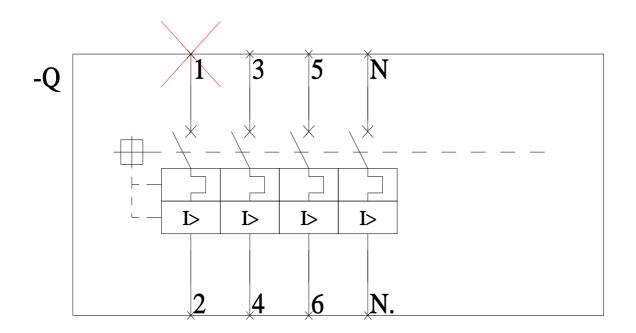
http://www.siemens.com/specifications







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