SIEMENS

Data sheet

3VM1220-4EE32-0AA0



circuit breaker 3VM1 IEC frame 250 breaking capacity class S Icu=36kA @ 415V 3-pole, line protection TM220, ATFM, In=200A overload protection Ir=140A...200A short-circuit protection Ii=10 x In 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 | 3 |
| 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 | 42 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 14 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 | 1.591 kg |
| Current | |
| operational current | |
| ● at 40 °C | 200 A |
| ● at 45 °C | 200 A |
| • at 50 °C | 200 A |
| • at 55 °C | 194 A |
| • at 60 °C | 188 A |
| • at 65 °C | 182 A |
| • at 70 °C | 176 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | S |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 55 kA |
| • at 415 V | 36 kA |
| • at 440 V | 25 kA |
| • at 500 V | 10 kA |
| operating short-circuit current breaking capacity (Ics) | |

| • at 240 V | 41 kA | | | |
|---|---|--|--|--|
| • at 415 V | 27 kA | | | |
| • at 440 V | 18 kA | | | |
| • at 500 V | 7 kA | | | |
| short-circuit current making capacity (Icm) | | | | |
| • at 240 V | 121 kA | | | |
| • at 415 V | 76 kA | | | |
| • at 440 V | 53 kA | | | |
| • at 500 V | 17 kA | | | |
| design of short-circuit protection | 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 | 140 A |
| • maximum | 200 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 | 2 000 A |
| • maximum | 2 000 A |
| adjustable setting current (InN) / for N-tripping | |
| • minimum | 0 A |
| maximum | 0 A |
| adjustable current response value current / of instantaneous short-circuit trip unit | |
| maximum | 2 000 A |
| product function / grounding protection | No |
| Mechanical Design | |
| product component | |
| undervoltage release | No |
| voltage trigger | No |
| trip indicator | No |
| height [in] | 6.22 in |
| height | 158 mm |
| width [in] | 4.13 in |
| width | 105 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 | 13 x 1 mm |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 25 x 8 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) $% \left(1, 2, 2, 3, 6 \right)$ | Silver |
| 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 °C |
| | |

| during storage / minimu during storage / maximu Approvals / Certificates | | -40 ° 80 °(| - | | |
|--|---|---|----------------------|----------------------------------|----------------------------------|
| General Product Approval | UK CA | Confirmation | | | CB GB |
| General Product Approval | | Test Certificates | Marine / Shipping | | |
| <u>Miscellaneous</u> | EHC | <u>Miscellaneous</u> | ABS | BUREAU VERITAS | |
| Marine / Shipping | | other | | Environment | |
| Llovd's Register us | KMRS | <u>Confirmation</u> | <u>Miscellaneous</u> | Environmental Con- firmations | Environmental Con- firmations |
| Further information Information on the packagin https://support.industry.siemen Information- and Downloadd http://www.siemens.com/lowy Industry Mall (Online orderin https://mall.industry.siemens.co Service&Support (Manuals, | ns.com/cs/ww/en/ center (Catalogs, oltage/catalogs ng system) com/mall/en/en/Ca | Brochures,) atalog/product?mlfb=3VM1 | 220-4EE32-0AA0 | | |

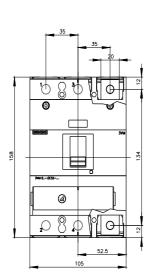
https://support.industry.siemens.com/cs/ww/en/ps/3VM1220-4EE32-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1220-4EE32-0AA0

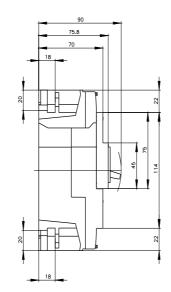
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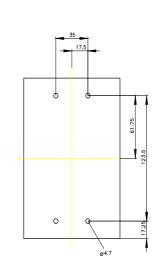
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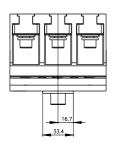
Tender specifications

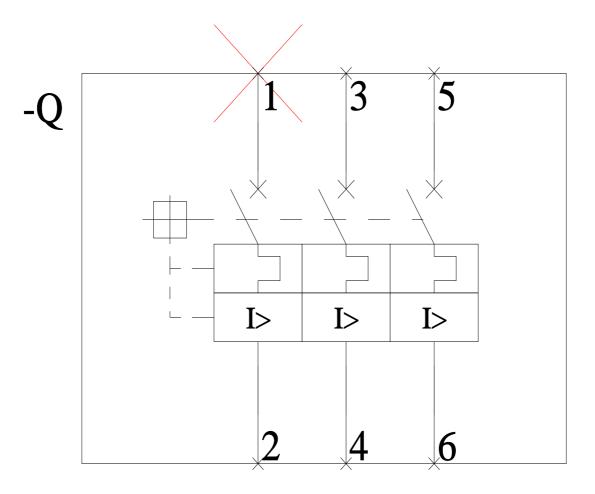
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