3VA5222-5ED32-0AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM210, FTFM, In=225A overload protection Ir=225A fixed short-circuit protection Ii=10 x In nut keeper kit on both sides

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | MFAS |
| design of the product | System protection |
| design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type) | No |
| design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) | No |
| design of the overcurrent release | TM210 |
| protection function of the overcurrent release | Ц |
| number of poles | 3 |
| General technical data | |
| insulation voltage / rated value | 800 V |
| operating voltage / at DC / rated value | 750 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 51 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 17.07 W |
| mechanical service life (operating cycles) / typical | 20 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 8 000 |
| electrical endurance (operating cycles) / at AC-1 / at 690 V | 4 000 |
| electrical endurance (operating cycles) / at 480 V | 8 000 |
| electrical endurance (operating cycles) / at 600 V | 4 000 |
| 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 | 2.192 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| • at 40 °C | 225 A |
| ● at 45 °C | 220 A |
| ● at 50 °C | 216 A |
| ● at 55 °C | 211 A |
| ● at 60 °C | 206 A |
| ● at 65 °C | 201 A |

| • at 70 °C | 197 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 |
| • at 415 V | 55 kA |
| ● at 690 V | 7 kA |
| operating short-circuit current breaking capacity (lcs) | |
| ● at 240 V | 85 kA |
| • at 415 V | 55 kA |
| • at 690 V | 7 kA |
| short-circuit current making capacity (Icm) | |
| ● at 240 V | 187 kA |
| • at 415 V | 121 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 |
| Switching capacity according to UL 489 | |
| current breaking capacity | |
| • at 240 V | 85 kA |
| • at 480 V | 35 kA |
| • at 600 V | 18 kA |
| Adjustable parameters | |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic | |
| • minimum | 225 A |
| • maximum | 225 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 l-tripping | |
| • minimum | 2 250 A |
| • maximum | 2 250 A |
| adjustable setting current (InN) / for N-tripping | |
| • minimum | 0 A |
| • maximum | 0 A |
| adjustable current response value current / of the current- dependent overload release | 225 225 A |
| product function / grounding protection | No |
| Mechanical Design | |
| product component | |
| undervoltage release | No |
| voltage trigger | No |
| trip indicator | No |
| height [in] | 7.28 in |
| height | 185 mm |
| width [in] | 4.13 in |
| width | 105 mm |
| depth [in] | 3.27 in |
| depth | 83 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 bottom of the switch (N, 2, 4, 6) | silver |
| Auxiliary circuit | |
| Auxiliary circuit | |

| 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 | |
| Certificates | | |
| reference code / according to IEC 81346-2 | Q | |
| General Product Approval | | |



Confirmation





Miscellaneous



EMC Declaration of Conformity

Marine / Shipping

other









<u>Confirmation</u> <u>Miscellaneous</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5222-5ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5222-5ED32-0AA0

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

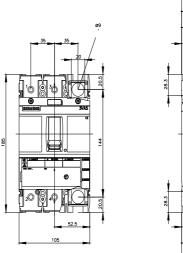
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5222-5ED32-0AA0

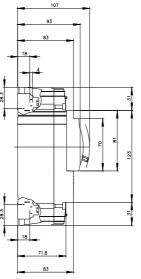
CAx-Online-Generator

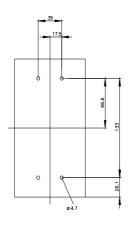
http://www.siemens.com/cax

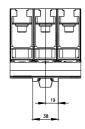
Tender specifications

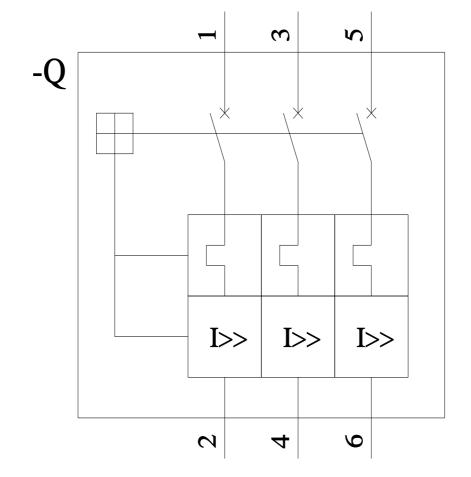
http://www.siemens.com/specifications

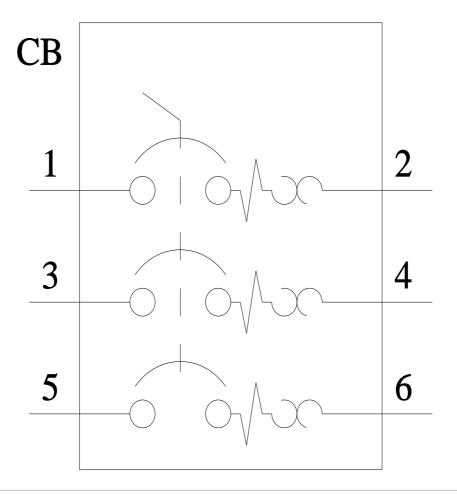












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