SIEMENS

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480V 4-pole, line protection TM210, FTFM, In=225A overload protection Ir=225A fixed short-circuit protection Ii=10 x In N conductor protection 100% without connection

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | HFAS |
| 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 | 4 |
| General technical data | |
| insulation voltage / rated value | 800 V |
| operating voltage / at DC / rated value | 1 000 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 | 2.7 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 | Н |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 100 kA |
| • at 415 V | 70 kA |
| • at 690 V | 10 kA |
| operating short-circuit current breaking capacity (lcs) | |
| • at 240 V | 100 kA |
| • at 415 V | 70 kA |
| • at 690 V | 10 kA |
| short-circuit current making capacity (Icm) | |
| • at 240 V | 220 kA |
| • at 415 V | 154 kA |
| • at 690 V | 17 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 | 100 kA |
| • at 480 V | 65 kA |
| • at 600 V | 25 kA |
| Adjustable parameters | |
| adjustable response value setting current (Ir) / of the L-trip / with 12t 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 I-tripping | |
| • minimum | 2 250 A |
| • maximum | 2 250 A |
| adjustable absolute value setting current (InN) / for N-tripping | 005 A |
| • minimum | 225 A |
| maximum Adjustable surrent representative surrent / of the surrent | 225 A |
| adjustable current response value current / of the current-dependent overload release | 225 225 A |
| design of the N-conductor protection | 100% |
| product function / grounding protection Mechanical Design | No |
| | |
| product component • undervoltage release | No |
| voltage release voltage trigger | No |
| trip indicator | No |
| height [in] | 7.28 in |
| height | 185 mm |
| width [in] | 5.51 in |
| width | 140 mm |
| depth [in] | 3.27 in |
| depth | 83 mm |
| Connections | |
| arrangement of electrical connectors / for main current circuit | Without connection |
| type of electrical connection / for main current circuit | Without |
| Auxiliary circuit | |
| number of CO contacts / for auxiliary contacts | 0 |
| Accessories | |
| product extension / optional / motor drive Environmental conditions | Yes |
| | ID40 |
| protection class IP / on the front | IP40 |

ambient temperature -25 °C • during operation / minimum • during operation / maximum 70 °C • during storage / minimum -40 °C 80 °C • during storage / maximum reference code / according to IEC 81346-2 Q **General Product Approval**



Confirmation





Miscellaneous



EMC

Declaration of Conformity

Marine / Shipping

other







Miscellaneous

Confirmation

other

Miscellaneous

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=3VA5222-6GD41-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5222-6GD41-0AA0

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

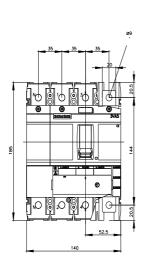
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5222-6GD41-0AA0

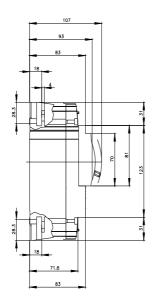
CAx-Online-Generator

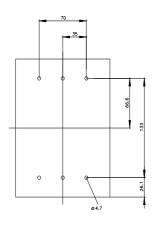
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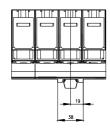
Tender specifications

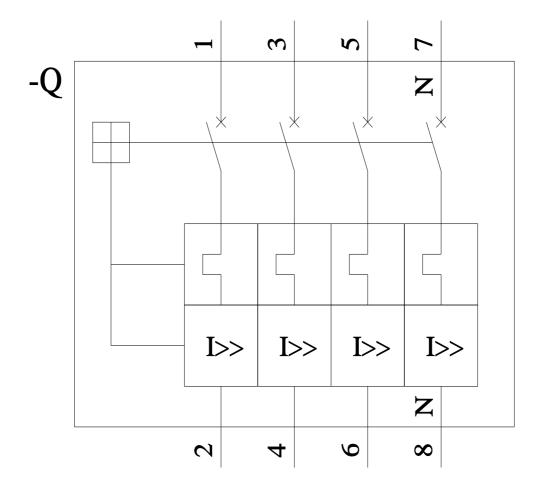
http://www.siemens.com/specifications

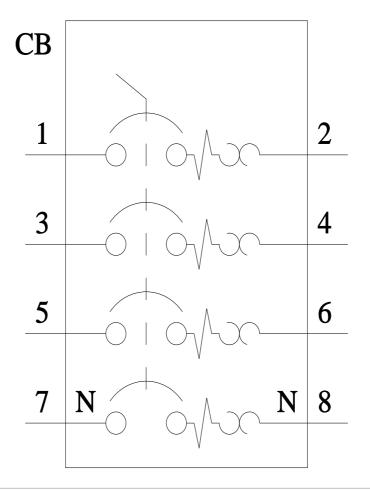












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