SIEMENS

Data sheet

3VA5225-0BB35-0AA0



molded case switch 3VA5 UL frame 250 max short-circuit curr. rating 65kA @ 480 V 3-pole MCS110, In=250A without overload protection SELF PROTECTION Ii=10 x In Al-lug, line side

| Model | |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | HFAS |
| design of the product | Molded case switch |
| 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 | MCS110 |
| protection function of the overcurrent release | 1 |
| 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 | 54.4 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 18.13 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 | 2 200 g |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| ● at 40 °C | 250 A |
| ● at 45 °C | 244 A |
| ● at 50 °C | 239 A |
| ● at 55 °C | 233 A |
| ● at 60 °C | 227 A |
| ● at 65 °C | 222 A |

| ● at 70 °C | | | 216 A | | | | | |
|----------------------------------------------------------------------------------------|--------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|--------------------------------|--|--|
| Switching capacity acco | ording to IEC 60947 | | 210 A | | | | | |
| design of short-circuit p | | | For switz | hing nower velues in | DC networks and the | | | |
| design of short-circuit p | rotection | | 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 va | lue setting current (li) / for | · I-tripping | | | | | | |
| • minimum | 0 () | | 2 500 A | | | | | |
| maximum | | | 2 500 A | | | | | |
| adjustable setting curre | nt (InN) / for N-tripping | | 2 300 A | | | | | |
| minimum | in (init) / for it inpping | | 0 A | | | | | |
| maximum | | | 0 A | | | | | |
| | ding protoction | | | | | | | |
| product function / groun | iding protection | | No | | | | | |
| Mechanical Design | | | _ | | | | | |
| product component | | | | | | | | |
| undervoltage rele | ease | | | No | | | | |
| voltage trigger | | | No | | | | | |
| trip indicator | | | No | | | | | |
| height [in] | | | | 7.28 in | | | | |
| height | | | 185 mm | | | | | |
| width [in] | | | 4.13 in | | | | | |
| type of connectable cor conductor terminal / stra | nductor cross-sections / of anded | f the round | 1 x (6 AV | VG - 350 kcmil) | | | | |
| width | | | 105 mm | | | | | |
| depth [in] | | | 3.27 in | | | | | |
| depth | | | 83 mm | | | | | |
| Connections | | | | | | | | |
| arrangement of electric | al connectors / for main c | urrent circuit | Front co | nnection | | | | |
| type of electrical connection | ction / for main current cir | cuit | line-side | circular conductor ter | minal | | | |
| | of the connections / on the | | | | | | | |
| Auxiliary circuit | | | | | | | | |
| number of CO contacts | / for auxiliary contacts | | 0 | | | | | |
| Accessories | , for auxiliary contacto | | | | | | | |
| product extension / opti | onal / motor drivo | | Yes | | | | | |
| | | | 165 | | | | | |
| Environmental conditio | | | 15.40 | _ | | | | |
| protection class IP / on | the front | | IP40 | | | | | |
| ambient temperature | | | | | | | | |
| during operation / minimum | | -25 °C | | | | | | |
| during operation / maximum | | 70 °C | | | | | | |
| during storage / r | ninimum | | -40 °C | | | | | |
| during storage / r | maximum | | 80 °C | | | | | |
| Certificates | | | | | | | | |
| reference code / accord | ling to IEC 81346-2 | | Q | | | | | |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | | Yes | | | | | | |
| General Product App | roval | | | | EMC | Declaration of Con- formity | | |
| <u>Confirmation</u> | U | Miscellaneo | <u>US</u> | EHC | RCM | CE EG-Konf. | | |
| Declaration of Con- formity | Marine / Shipping | other | | | | | | |
| UK CA | ABS | <u>Miscellaneo</u> | <u>us</u> | <u>Confirmation</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=3VA5225-0BB35-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5225-0BB35-0A

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

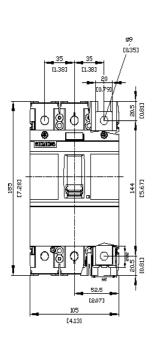
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5225-0BB35-0AA0

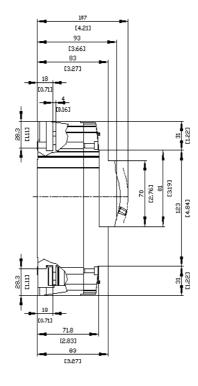
CAx-Online-Generator

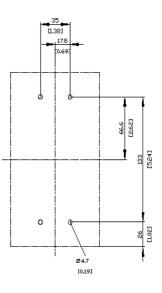
http://www.siemens.com/cax

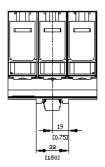
Tender specifications

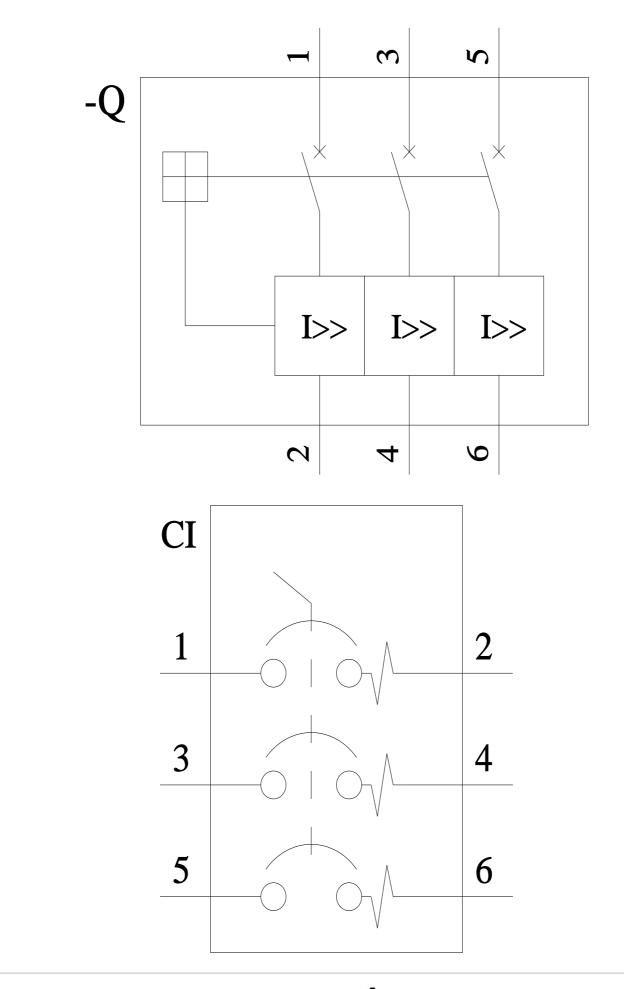
http://www.siemens.com/specifications











7/15/2022 🖸

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