3VA5220-7GD41-0AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480V 4-pole, line protection TM210, FTFM, In=200A overload protection Ir=200 A fixed short-circuit protection li=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 | CFAS |
| Product version | System protection |
| design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| design of the overcurrent release | TM210 |
| protection function of the overcurrent release | LI |
| number of poles | 4 |
| General technical data | |
| Tension assignée d'isolement Ui | 800 V |
| Max. rated operational voltage Ue with AC 50/60Hz | 690 V |
| Max. rated operational voltage Ue with DC | 1 000 V |
| power loss [W] / maximum | 42.5 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 14.17 W |
| mechanical service life (switching cycles) / typical | 20 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 8 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 4 000 |
| electrical endurance (switching cycles) / at 480 V | 8 000 |
| electrical endurance (switching cycles) / at 600 V | 4 000 |
| Neutral conductors / upgradeable/retrofittable | No |
| ground-fault monitoring version | Without |
| product function | |
| communication function | No |
| other measurement function | No |
| Current | |
| marking / acc. to UL 489 / 100%-rated breaker | No |
| Max. rated operational current of the frame size | 250 A |
| Courant permanent assigné lu | 200 A |
| 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 at 65 °C at 65 °C at 70 °C Switching capacity according to IEC 60947 switching capacity class of the circuit breaker C | |
|--|--|
| • at 70 °C 176 A Switching capacity according to IEC 60947 | |
| Switching capacity according to IEC 60947 | |
| | |
| switching capacity class of the circuit breaker C | |
| | |
| breaking capacity maximum short-circuit current (Icu) | |
| • at 240 V 200 kA | |
| • at 415 V 85 kA | |
| • at 690 V 10 kA | |
| breaking capacity operating short-circuit current (lcs) | |
| • at 240 V 200 kA | |
| • at 415 V 85 kA | |
| • at 690 V 10 kA | |
| short-circuit current making capacity (lcm) | |
| • at 240 V 440 kA | |
| • at 415 V 187 kA | |
| • at 690 V 17 kA | |
| design of short-circuit protection For switching power values in DC networks, see the circuit breaker device manual; link to be found under in the last chapter | |
| Switching capacity according to UL 489 | |
| breaking capacity current | |
| • at 240 V 200 kA | |
| • at 480 V 100 kA | |
| • at 600 Y/347 V 35 kA | |
| Adjustable parameters | |
| Adjustable response value current / lg min. 200 A | |
| Adjustable response value current / Ig min. 200 A | |
| Adjustable response value current / li min. 2 000 A | |
| Adjustable response value current / li max. 2 000 A | |
| design of the N-conductor protection 100% | |
| Ground fault protection / tripping switchable / I2t=ON/OFF No | |
| Mechanical Design | |
| height [in] 7.3 in | |
| Height 185 mm | |
| width [in] 5.5 in | |
| Width 140 mm | |
| depth [in] 3.3 in | |
| depth 83 mm | |
| Connections | |
| arrangement of electrical connectors / for main current Without connection | |
| circuit type of electrical connection / for main current circuit Without | |
| 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 / acc. to IEC 81346-2 | |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | |





Miscellaneous



EHC



Declaration of Conformity

Shipping Approval

other







Miscellaneous

Further information

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=3VA5220-7GD41-0AA0

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

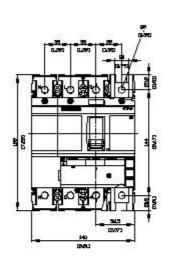
https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-7GD41-0AA0

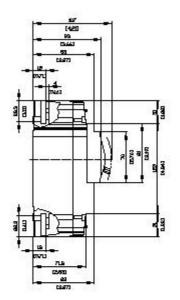
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

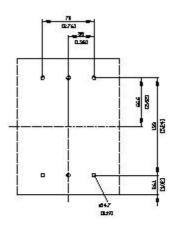
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5220-7GD41-0AA0

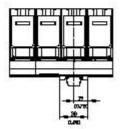
Tender specifications

http://www.siemens.com/specifications









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