3VA5190-4GC41-0AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480V 4-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...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 | SEAS |
| 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 | TM230 |
| 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 | 600 V |
| power loss [W] / maximum | 17.7 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 5.9 W |
| mechanical service life (switching cycles) / typical | 15 000 |
| 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 | 125 A |
| Courant permanent assigné lu | 90 A |
| operational current | |
| • at 40 °C | 90 A |
| ● at 45 °C | 87.9 A |
| ● at 50 °C | 85.9 A |
| ● at 55 °C | 84 A |

| ● at 60 °C | 82.1 A |
|--|--|
| • at 65 °C | 80.4 A |
| • at 70 °C | 78.7 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | S |
| breaking capacity maximum short-circuit current (Icu) | |
| • at 240 V | 55 kA |
| ● at 415 V | 36 kA |
| ● at 690 V | 5 kA |
| breaking capacity operating short-circuit current (lcs) | |
| ● at 240 V | 55 kA |
| ● at 415 V | 36 kA |
| • at 690 V | 5 kA |
| short-circuit current making capacity (lcm) | |
| ● at 240 V | 121 kA |
| ● at 415 V | 76 kA |
| ● at 690 V | 7.5 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 | |
| breaking capacity current | |
| • at 240 V | 65 kA |
| ● at 480 V | 25 kA |
| ● at 600 Y/347 V | 14 kA |
| Adjustable parameters | |
| Adjustable response value current / lg min. | 90 A |
| Adjustable response value current / lg min. | 90 A |
| Adjustable response value current / li min. | 450 A |
| Adjustable response value current / li max. | 900 A |
| design of the N-conductor protection | 100% |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |
| Mechanical Design | |
| height [in] | 5.5 in |
| Height | 140 mm |
| width [in] | 4 in |
| Width | 101.6 mm |
| depth [in] | 3 in |
| depth | 76.5 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 | Yes |
| Environmental conditions | |
| protection class IP / on the front | IP40 |
| ambient temperature | II 1 0 |
| during operation / minimum | -25 °C |
| | 70 °C |
| during operation / maximum during storage / minimum | -40 °C |
| during storage / maximum | -40 °C |
| during storage / maximum | 00 0 |
| Certificates | |
| reference code / acc. to IEC 81346-2 | Q |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | No |

General Product Approval











Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Test Certificates

Shipping Approval







Special Test Certificate **Miscellaneous**



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=3VA5190-4GC41-0AA0

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

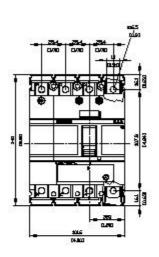
https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-4GC41-0AA0

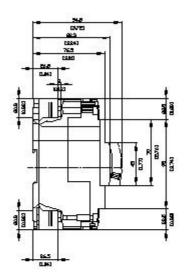
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

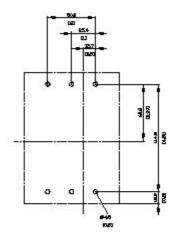
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5190-4GC41-0AA0

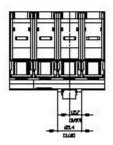
Tender specifications

http://www.siemens.com/specifications









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