3VA4190-6ED34-0AA0

Data sheet



circuit breaker 3VA4 UL Frame 125 breaking capacity class H 65 kA @ 480 V 3-pole, line protection TM210, FTFM, In=90 A overload protection Ir=90 A permanently set short-circuit protection Ii=10 x In terminal connection

| Model | | | |
|--|--|--|--|
| product brand name | SENTRON | | |
| product designation | Molded-case circuit breaker | | |
| product designation / according to UL file | HEAB | | |
| 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 | | | |
| operating voltage / at AC / rated value | 690 V | | |
| power loss [W] / maximum | 17.7 W | | |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 5.9 W | | |
| mechanical service life (operating cycles) / typical | 15 000 | | |
| 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 | 0.743 kg | | |
| Current | | | |
| marking / according to UL 489 / 100%-rated breaker | No | | |
| operational current | | | |
| ● at 40 °C | 90 A | | |
| • at 45 °C | 88 A | | |
| ● at 50 °C | 86 A | | |
| ● at 55 °C | 84 A | | |
| ● at 60 °C | 81 A | | |
| • at 65 °C | 79 A | | |
| ● at 70 °C | 77 A | | |
| Switching capacity according to IEC 60947 | | | |
| switching capacity class of the circuit breaker | Н | | |
| 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 Y/277 V | 65 kA | | |
| • at 480 V | 65 kA | | |
| • at 600 Y/347 V | 25 kA | | |
| djustable parameters | | | |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic | | | |
| • minimum | 1 s | | |
| maximum | 1 s | | |
| product function / grounding protection | No | | |
| Mechanical Design | | | |
| product component | | | |
| undervoltage release | No | | |
| voltage trigger | No | | |
| trip indicator | No | | |
| height [in] | 5.09 in | | |
| height | 129.4 mm | | |
| width [in] | 3 in | | |
| type of connectable conductor cross-sections / of the round conductor terminal / stranded | 1 x (8 AWG - 3/0) | | |
| width | 76.2 mm | | |
| depth [in] | 2.96 in | | |
| depth | 75.1 mm | | |
| Connections | | | |
| arrangement of electrical connectors / for main current circuit | output side: circular conductor | connection | |
| type of electrical connection / for main current circuit | Infeed side: Low tab | | |
| design of the surface / of the connections / on the bottom of the switch $(N,2,4,6)$ | Tin | | |
| Auxiliary circuit | | | |
| number of CO contacts / for auxiliary contacts | 0 | | |
| Accessories | | | |
| product extension / optional / motor drive | No | | |
| nvironmental 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 | | |
| pprovals / Certificates | | | |
| General Product Approval | | EMV | other |



Miscellaneous





Confirmation

other Environment

Environmental Con-firmations Miscellaneous **Miscellaneous**

Further information

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4190-6ED34-0AA0}$

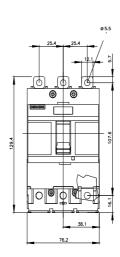
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA4190-6ED34-0A

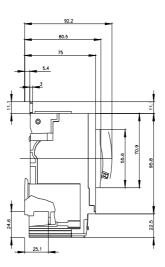
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4190-6ED34-0AA0

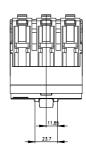
CAx-Online-Generator

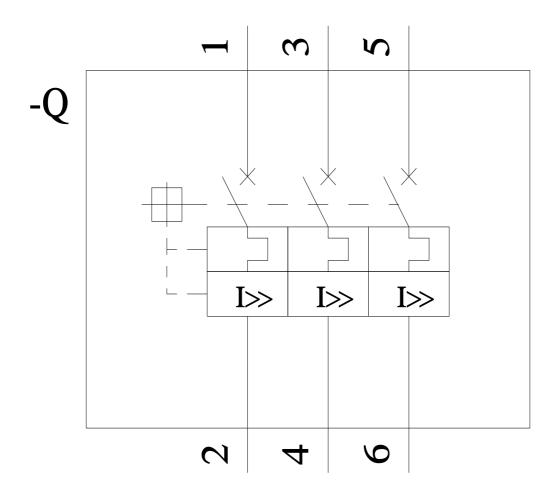
Tender specifications

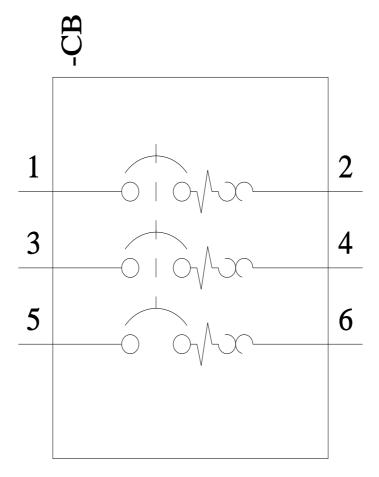
http://www.siemens.com/specifications











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