SIEMENS

Data sheet

3VA4120-6ED14-0AA0



circuit breaker 3VA4 UL Frame 125 breaking capacity class H 65 kA @ 277 V 1-pole, line protection TM210, FTFM, In=20 A overload protection Ir=20 A permanently set short-circuit protection Ii=15 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) | Yes |
| design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) | Yes |
| design of the overcurrent release | TM210 |
| protection function of the overcurrent release | LI |
| number of poles | 1 |
| General technical data | |
| operating voltage / at AC / rated value | 415 V |
| power loss [W] / maximum | 2.8 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 2.8 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 | 0.28 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| • at 40 °C | 20 A |
| ● at 45 °C | 20 A |
| • at 50 °C | 19 A |
| ● at 55 °C | 19 A |
| ● at 60 °C | 18 A |
| • at 65 °C | 18 A |
| • at 70 °C | 17 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 acco | rding to UL 489 | | | | | |
| current breaking capacity | | | | | | |
| • at 120 V | ' | | 150 kA | | | |
| • at 277 V | | | 65 kA | | | |
| • at 347 V | | | 25 kA | | | |
| Adjustable parameters | | | 20101 | | | |
| adjustable response valu | le delay time (tr) / for L-tr | inning / with 12t | | | | |
| characteristic | | ipping / with izt | | | | |
| minimum | | | 1 s | | | |
| maximum | | | 1 s | | | |
| product function / ground | ling protection | | No | | | |
| Mechanical Design | | | | | | |
| product component | | | | | | |
| undervoltage relea | ase | | No | | | |
| voltage trigger | | | No | | | |
| trip indicator | | | No | | | |
| height [in] | | | 5.09 in | | | |
| height | | | 129.4 mr | m | | |
| width [in] | | | 1 in | | | |
| type of connectable conductor terminal / strai | | the round | 1 x (14 A | WG - 8 AWG) | | |
| width | | | 25.4 mm | | | |
| depth [in] | | | 2.96 in | | | |
| depth | | | 75.1 mm | | | |
| Connections | | | | | | |
| arrangement of electrical | l connectors / for main cu | Irrent circuit | output si | de: circular condu | ctor connection | |
| type of electrical connect | | | Infeed side: Low tab | | | |
| design of the surface / of switch (N, 2, 4, 6) | | | Tin | | | |
| Auxiliary circuit | | | | | | |
| number of CO contacts / | for auxiliary contacts | | 0 | | | |
| Accessories | | | 0 | | | |
| product extension / optio | nal / motor drive | | No | | | |
| Environmental condition | | | 110 | | | |
| protection class IP / on th | | | IP40 | | | |
| ambient temperature | | | 11 40 | | | |
| · | minimum | | -25 °C | | | |
| during operation / | | | | | | |
| during operation / | | | 70 °C | | | |
| during storage / m | | | -40 °C | | | |
| during storage / m | aximum | | 80 °C | | | |
| Approvals / Certificates | | | | _ | | |
| General Product Appro | oval | | | | EMV | other |
| ſ | መ | Miscellaneou | <u>15</u> | EHC | Â | Confirmation |
| | <u> </u> | | | נחנ | <u>ين</u> | |
| UL | UL | | | | RCM | |
| other | | Environment | | | | |
| | | | | | | |
| Miscellaneous | Miscellaneous | Environmental firmations | <u>Con-</u> | | | |

Further information Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

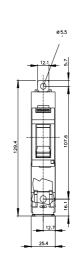
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

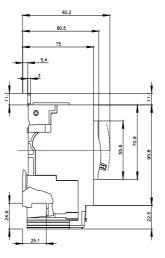
Industry Mall (Online ordering system)

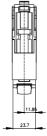
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4120-6ED14-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA4120-6ED14-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4120-6ED14-0AA0 CAx-Online-Generator http://www.siemens.com/cax

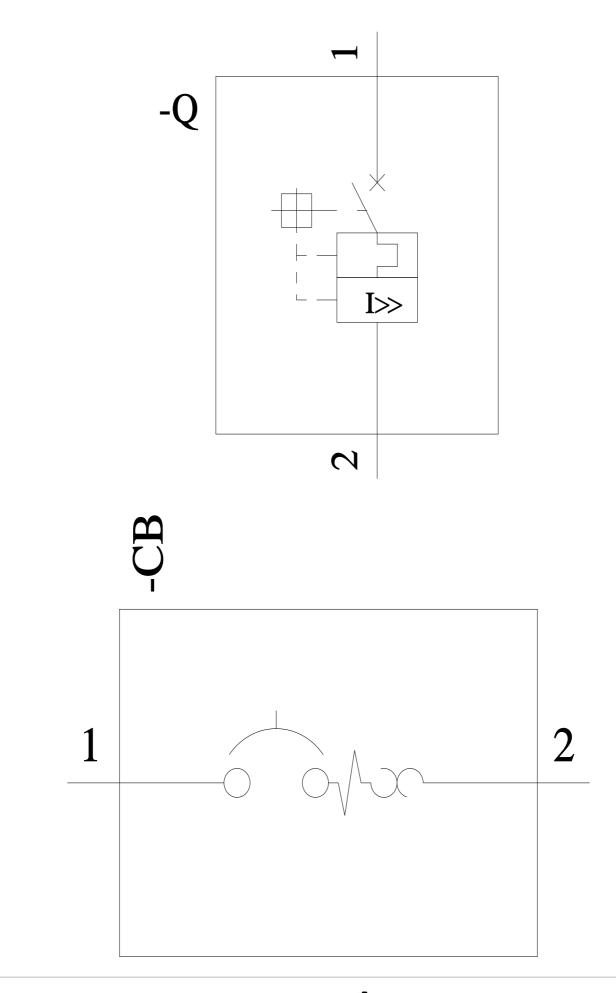
Tender specifications

http://www.siemens.com/specifications









last modified:

3/11/2024 🖸