SIEMENS

Data sheet

3VA5120-6ED22-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 2-pole, line protection TM210, FTFM, In=20A overload protection Ir=20A fixed short-circuit protection Ii=15 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | HEAM |
| Product version | 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 | 2 |
| General technical data | |
| operating voltage / at AC / rated value | 415 V |
| power loss [W] / maximum | 8.13 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 4.07 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 |
| Net Weight | 0.669 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 | 19 A |

| ● at 65 °C | 18 A |
|---|--|
| • at 70 °C | 18 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 | |
| breaking capacity current | |
| • at 240 V | 150 kA |
| • at 480 V | 65 kA |
| • at 600 Y/347 V | 25 kA |
| Adjustable parameters | |
| Adjustable response value current / Ig min. | 20 A |
| Adjustable response value current / Ig min. | 20 A |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |
| Mechanical Design | |
| height [in] | 5.51 in |
| Height | 140 mm |
| width [in] | 2 in |
| Width | 50.8 mm |
| depth [in] | 3.01 in |
| depth | 76.5 mm |
| Connections | |
| arrangement of electrical connectors / for main current circuit | Front connection |
| type of electrical connection / for main current circuit | nut keeper kit on both ends |
| Type of connectable conductor cross-section, connection | 12 x 1 mm |
| screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. | 17 x 6.5 mm |
| Auxiliary circuit | |
| product component | |
| undervoltage release | No |
| voltage trigger | No |
| trip indicator | No |
| number of CO contacts / for auxiliary contacts | 0 |
| Accessories | |
| product extension / optional / motor drive | No |
| Environmental conditions | |
| | |
| protection class IP / on the front | IP40 |
| ambient temperature | 25 °C |
| during operation / minimum during operation / maximum | -25 °C 70 °C |
| • | -40 °C |
| during storage / minimum during storage / maximum | -40 °C 80 °C |
| • during storage / maximum Certificates | |
| certificate of suitability / as approval for NAVAL (no | Yes |
| combat vessels) / supplement SB | |
| General Product Approval | EMC Marine / Shipping |
| | |
| | |

other

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=3VA5120-6ED22-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5120-6ED22-1AA0

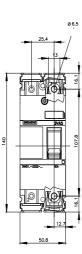
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5120-6ED22-1AA0

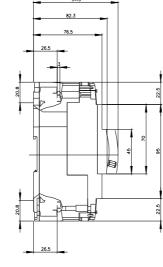
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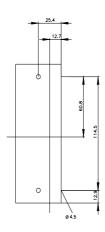
http://www.siemens.com/cax

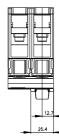
Tender specifications

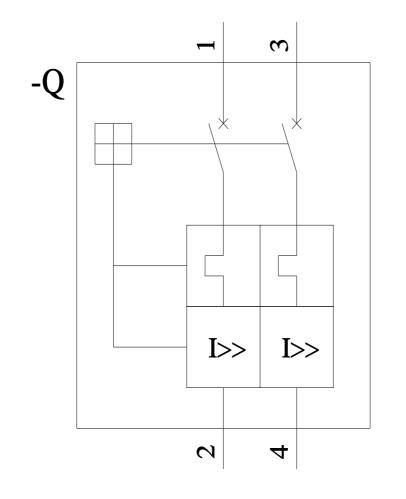
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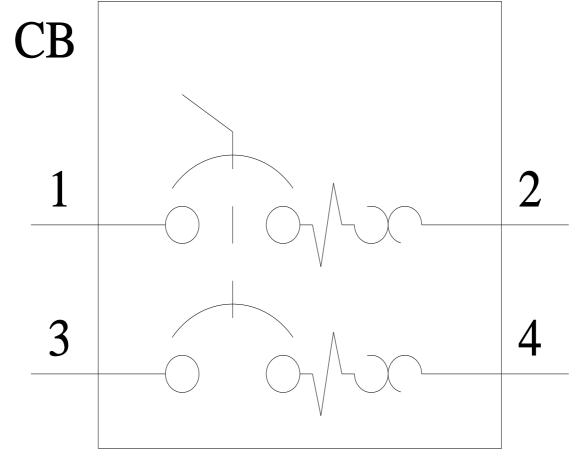












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