SIEMENS

Data sheet

3VA5112-6EC36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=125A overload protection Ir=125A fixed short-circuit protection Ii=5...10 x In UL489 SB (naval), 50 deg. cel. cable connection 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, | Yes |
| Air Conditioning, and Refrigeration circuit breaker (HACR | |
| Туре) | |
| 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 | No |
| Duty circuit breaker (SWD Type) | |
| design of the overcurrent release | TM230 |
| protection function of the overcurrent release | LI |
| number of poles | 3 |
| General technical data | |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 30.1 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 10.03 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 | 0.951 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| ● at 40 °C | 125 A |
| ● at 45 °C | 122 A |
| ● at 50 °C | 119 A |
| ● at 55 °C | 117 A |
| ● at 60 °C | 114 A |
| ● at 65 °C | 112 A |
| • at 70 °C | 109 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 according to be 400 | |
| • at 240 V | 150 kA |
| • at 480 V | 65 kA |
| • at 600 Y/347 V | 25 kA |
| Adjustable parameters | |
| product feature / for L-tripping / selectable characteristic function | No |
| type of value list setting current (Ir) / for L-tripping / with I2t characteristic | Fest |
| reference value setting current (Ir) / for L-tripping / with I2t characteristic | x In |
| set values setting current (Ir) / for L-tripping / with I2t characteristic | 1 |
| adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / minimum | 1 |
| adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / maximum | 1 |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / minimum | 125 A |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum | 125 A |
| type of value list delay time (tr) / for L-tripping / with I2t characteristic | Fest |
| reference value delay time (tr) / for L-tripping / with I2t characteristic | S |
| set values delay time (tr) / for L-tripping / with I2t characteristic | 1 |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / minimum | 1 s |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / maximum | 1 s |
| product feature / for S-tripping / independent of direction / selectable characteristic function | No |
| product feature / for I-tripping / can be switched on/off | No |
| design of I-trip / adjustable | Yes |
| reference value setting current (li) / for l-tripping | x In |
| set values setting current (li) / for I-tripping | 5;6;7;8;9;10 |
| adjustable response factor setting current (li) / for l- tripping / minimum | 5 |
| adjustable response factor setting current (li) / for l- tripping / maximum | 10 |
| adjustable response value setting current (li) / for I-tripping / minimum | 625 A |
| adjustable response value setting current (li) / for I-tripping / maximum | 1 250 A |
| product feature / for G-tripping / selectable characteristic function | No |
| product feature / with neutral conductor protection / can be switched on/off | No |
| product feature / with neutral conductor protection / adjustable | Yes |
| type of value list setting current (InN) / for N-tripping | St |
| reference value setting current (InN) / for N-tripping | x In |
| adjustable absolute value setting current (InN) / for N- tripping / minimum | 0 A |
| adjustable absolute value setting current (InN) / for N- tripping / maximum | 0 A |
| tripping characteristic / of the lower tolerance band | AK_3VA5_1_125A_TM2_SuMuH_uT AK_3VA5_1_125A_TM2_SuMuH_oT |
| tripping characteristic / of the upper tolerance band let-through energy characteristic / at 240 V | DE_3VA5_1_125A_TMuMCS110 line u starter_3u4p_240V |
| let-through energy characteristic / at 415 V | DE_3VA5_1_125A_TMuMCS110_line u starter_3u4p_415V |
| let-through energy characteristic / at 690 V | DE_3VA5_1_125A_TMuMCS110_line u starter_3u4p_690V |

| type of value list setting current (li) / for I-tripping | St | | |
|--|--|--|--|
| tripping characteristic / of the let-through current characteristic / at 240 V | DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_240V | | |
| tripping characteristic / of the let-through current characteristic / at 415 V | DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_415V | | |
| tripping characteristic / of the let-through current characteristic / at 690 V | DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_690V | | |
| Adjustable response value current / lg min. adjustable current response value current / of the current- | 125 A 125 A | | |
| dependent overload release / full-scale value | 125 A | | |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No | | |
| Mechanical Design | | | |
| product component | | | |
| undervoltage release | No | | |
| voltage trigger | No | | |
| trip indicator | No | | |
| height [in] | 5.51 in | | |
| Height | 140 mm | | |
| width [in] | 3 in | | |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (8 AWG - 3/0) | | |
| Width | 76.2 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 | circular conductor terminal on both sides | | |
| Auxiliary circuit | | | |
| number of CO contacts / for auxiliary contacts | 0 | | |
| | 0 | | |
| 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 | | | |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | Yes | | |
| General Product Approval | | | |
| | | | |
| Confirmation | Miscellaneous | | |
| | | | |
| CCC UL | UL VDE | | |
| | | | |
| | | | |
| ENO Declaration of Ocofermity | Maxima (Obianian | | |
| EMC Declaration of Conformity | Marine / Shipping other | | |
| • LUZ | Missellaneous | | |
| 🔬 ζε UK | <u>Miscellaneous</u> | | |
| | | | |
| RCM EG-Konf. | ABS RMRS | | |
| | | | |
| | | | |
| | | | |
| Further information | | | |
| Information- and Downloadcenter (Catalogs, Brochures,. | Information- and Downloadcenter (Catalogs, Brochures,) | | |
| http://www.siemens.com/lowvoltage/catalogs | | | |
| la duata Mall (Oalia a andaria a austra) | | | |
| Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product | | | |

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5112-6EC36-1AA0

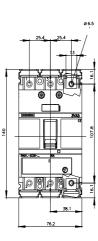
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5112-6EC36-1AA0

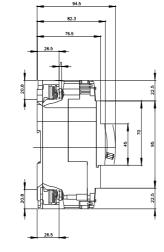
CAx-Online-Generator

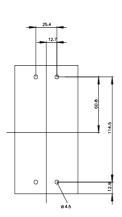
http://www.siemens.com/cax

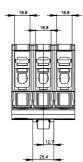
Tender specifications

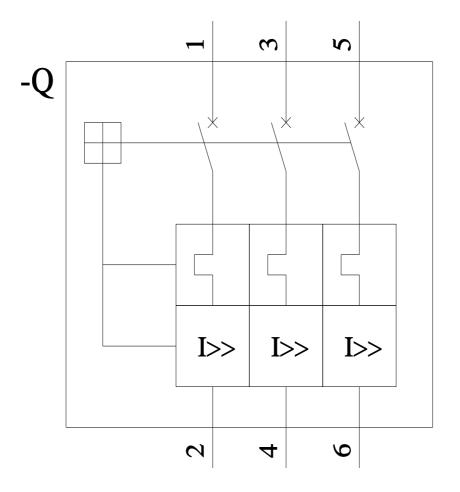
http://www.siemens.com/specifications

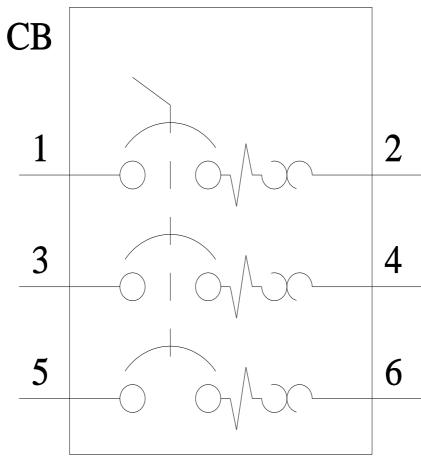












last modified:

7/14/2022 🖸