SIEMENS

Data sheet

3VA5110-6EC36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=100A overload protection Ir=100A 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, 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 | 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 | 22.8 W | | | |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 7.6 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 | 100 A | | | |
| ● at 45 °C | 98 A | | | |
| ● at 50 °C | 95 A | | | |
| • at 55 °C | 93 A | | | |
| • at 60 °C | 91 A | | | |
| ● at 65 °C | 89 A | | | |
| ● at 70 °C | 87 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 | | | | |
| Switching capacity according to UL 489 | in the last chapter | | | | |
| 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 | No | | | | |
| function type of value list setting current (Ir) / for L-tripping / with I2t | Fest | | | | |
| characteristic reference value setting current (Ir) / for L-tripping / with I2t | x In | | | | |
| characteristic set values setting current (Ir) / for L-tripping / with I2t | 1 | | | | |
| characteristic adjustable response factor setting current (Ir) / for L- | 1 | | | | |
| tripping / with I2t characteristic / minimum adjustable response factor setting current (Ir) / for L- | 1 | | | | |
| tripping / with I2t characteristic / maximum adjustable response value setting current (Ir) / of the L-trip | 100 A | | | | |
| / with I2t characteristic / minimum adjustable response value setting current (Ir) / of the L-trip | 100 A | | | | |
| / with I2t characteristic / maximum type of value list delay time (tr) / for L-tripping / with I2t | Fest | | | | |
| characteristic reference value delay time (tr) / for L-tripping / with I2t | S | | | | |
| characteristic set values delay time (tr) / for L-tripping / with I2t | 1 | | | | |
| characteristic adjustable response value delay time (tr) / for L-tripping / with l2t characteristic / minimum | 1 s | | | | |
| adjustable response value delay time (tr) / for L-tripping / with l2t 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 I-tripping | x In | | | | |
| set values setting current (Ii) / 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 | 500 A | | | | |
| adjustable response value setting current (li) / for I-tripping / maximum | 1 000 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_100A_TM2_SuMuH_uT | | | | |
| tripping characteristic / of the upper tolerance band | AK_3VA5_1_100A_TM2_SuMuH_oT | | | | |
| let-through energy characteristic / at 240 V | DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V | | | | |
| let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V | DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_690V | | | | |

| tripping characteristic | ng current (li) / for l-tripping / of the let-through current | St DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V | | | |
|--|---|---|--------------|---------------|--|
| | : / of the let-through current | DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V | | | |
| characteristic / at 415 tripping characteristic characteristic / at 690 | / of the let-through current | DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_690V | | | |
| | value current / lg min. | 100 A | | | |
| | 0 | 100 A | | | |
| | sponse value current / of the current- elease / full-scale value | 100 A | | | |
| • | on / tripping switchable / I2t=ON/OFF | No | | | |
| Mechanical Design | | | | | |
| | | | | | |
| product component | | | | | |
| undervoltage re | elease | 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 | 1 x (8 AWG - 3/0) | | | |
| conductor terminal, s | tranded | | | | |
| Width | | 76.2 mm | | | |
| depth [in] | | 3.01 in | | | |
| depth | | 76.5 mm | | | |
| Connections | | | | | |
| arrangement of electic | rical connectors / for main current | Front connection | | | |
| | nection / for main current circuit | circular conductor terminal or | n both sides | | |
| Auxiliary circuit | | | | | |
| | te (fer euvilier) eesteste | 0 | | | |
| | cts / for auxiliary contacts | 0 | | | |
| Accessories | | | | | |
| product extension / o | ptional / motor drive | Yes | | | |
| Environmental condit | tions | | | | |
| protection class IP / c | on the front | IP40 | | | |
| ambient temperature | | | | | |
| during operatio | n / minimum | -25 °C | | | |
| during operatio | | 70 °C | | | |
| during storage | | -40 °C | | | |
| during storage | | -40°C | | | |
| 0 0 | | 80 0 | | | |
| Certificates | | | | | |
| combat vessels) / sup | • | Yes | | | |
| General Product Ap | oproval | | | | |
| | | | | | |
| Confirmation | | | \wedge | Miscellaneous | |
| | (CCC) (UL) | (ŲL) | DE | | |
| | | | | | |
| | CCC UL | ÜL | VDE | | |
| | | | | | |
| | | | | | |
| EMC | Declaration of Conformity | Marine / Shipping | | other | |
| | Deciditation of contonnity | indinio / empping | | ounor | |
| ^ | | | | Miscellaneous | |
| | ςς UK | Start up 1 | | Miscellaneous | |
| <u></u> | | 1. 200 | | | |
| RCM | EG-Konf. | ABS | RMRS | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Further information | | | | | |
| Information- and Downloadcenter (Catalogs, Brochures,) | | | | | |
| | com/lowvoltage/catalogs | , | | | |
| Industry Mall (Onlin | | | | | |
| https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5110-6EC36-1AA0 | | | | | |
| | | | | | |

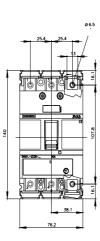
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5110-6EC36-1AA0

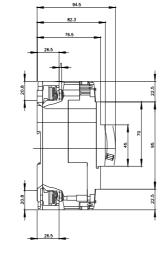
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5110-6EC36-1AA0

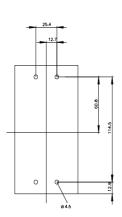
CAx-Online-Generator

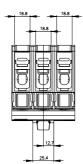
http://www.siemens.com/cax Tender specifications

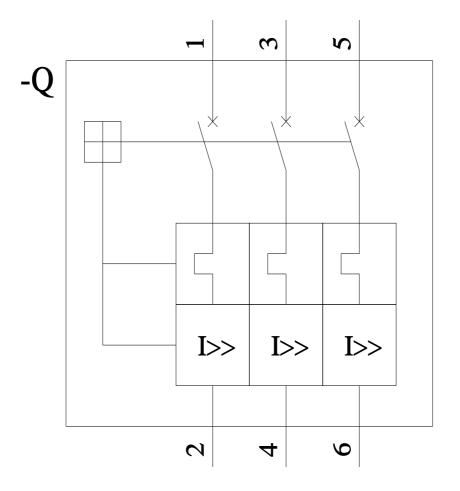
http://www.siemens.com/specifications

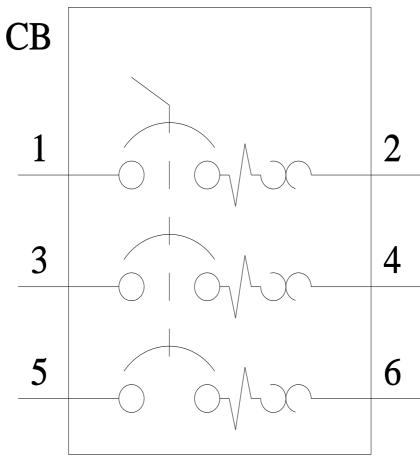












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