SIEMENS

Data sheet

3VA5125-4ED26-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 2-pole, line protection TM210, FTFM, In=25A overload protection Ir=25A fixed short-circuit protection Ii=12 x In cable connection on both sides

| Model | | |
|--|-----------------------------|--|
| product brand name | SENTRON | |
| product designation | Molded-case circuit breaker | |
| product designation / according to UL file | SEAS | |
| 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) | No | |
| design of the overcurrent release | TM210 | |
| protection function of the overcurrent release | LI | |
| number of poles | 2 | |
| General technical data | | |
| insulation voltage / rated value | 600 V | |
| Max. rated operational voltage Ue with DC | 250 V | |
| operating voltage / at AC / rated value | 415 V | |
| power loss [W] / maximum | 6 W | |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 2.8 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 | 0.657 kg | |
| Current | | |
| marking / according to UL 489 / 100%-rated breaker | No | |
| operational current | | |
| • at 40 °C | 25 A | |
| ● at 45 °C | 24 A | |
| ● at 50 °C | 24 A | |
| ● at 55 °C | 23 A | |
| • at 60 °C | 23 A | |

| ● at 65 °C | 23 A |
|---|--|
| • at 70 °C | 22 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | S |
| breaking capacity maximum short-circuit current (Icu) | |
| ● at 240 V | 55 kA |
| ● at 415 V | 36 kA |
| breaking capacity operating short-circuit current (lcs) | |
| • at 240 V | 55 kA |
| • at 415 V | 36 kA |
| short-circuit current making capacity (Icm) | |
| • at 240 V | 121 kA |
| • at 415 V | 75.6 kA |
| 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 | 65 kA |
| • at 480 V | 25 kA |
| • at 600 Y/347 V | 14 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 / with I2t characteristic / minimum | 25 A |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum | 25 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 | No |
| reference value setting current (li) / for I-tripping | x In |
| set values setting current (li) / for I-tripping | 12 |
| adjustable response factor setting current (li) / for l- tripping / minimum | 12 |
| adjustable response factor setting current (li) / for I- tripping / maximum | 12 |
| adjustable response value setting current (Ii) / for I-tripping / minimum | 300 A |
| adjustable response value setting current (li) / for I-tripping / maximum | 300 A |

function product feature / with neutral conductor protection / can be switched on/off product feature / with neutral conductor protection / adjustable 3VA51254ED260AA0 Page 2/6

product feature / for G-tripping / selectable characteristic

/ maximum

No

No

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- | 0 A |
| tripping / minimum | |
| adjustable absolute value setting current (InN) / for N- tripping / maximum | 0 A |
| tripping characteristic / of the lower tolerance band | AK_3VA5_1_25A_TM2_SuMuH_uT |
| tripping characteristic / of the upper tolerance band | AK_3VA5_1_25A_TM2_SuMuH_oT |
| let-through energy characteristic / at 240 V | DE_3VA5_1_25A_TM2_line_2p_240V |
| let-through energy characteristic / at 415 V | DE_3VA5_1_25A_TM2_line_2p_415V |
| type of value list setting current (li) / for I-tripping | Fest |
| tripping characteristic / of the let-through current characteristic / at 240 V | DS_3VA5_1_25A_TM2_line_2p_240V |
| tripping characteristic / of the let-through current characteristic / at 415 V | DS_3VA5_1_25A_TM2_line_2p_415V |
| Adjustable response value current / lg min. | 25 A |
| adjustable current response value current / of the current- dependent overload release / full-scale value | 25 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] | 2 in |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (14 AWG - 8 AWG) |
| 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 | circular conductor terminal on both sides |
| Auxiliary circuit | |
| 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 | IF40 |
| during operation / minimum | -25 °C |
| during operation / maximum | 70 °C |
| during storage / minimum | -40 °C |
| during storage / maximum | 2° 08 |
| Certificates | |
| reference code / according to IEC 81346-2 | Q |
| General Product Approval | |
| | |
| Confirmation | Miscellaneous |
| | |
| ccc UL | UL VDE |
| | |
| | Marina / Chinaina |
| EMC Declaration of Conformity | Marine / Shipping |
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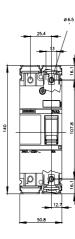
Miscellaneous

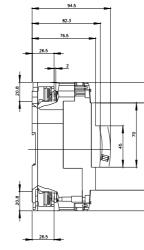
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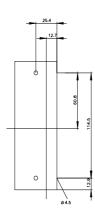
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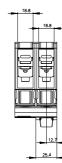
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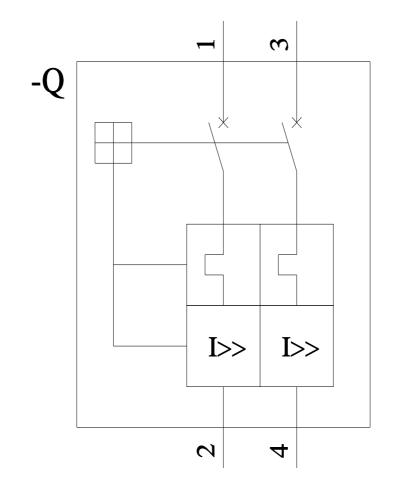
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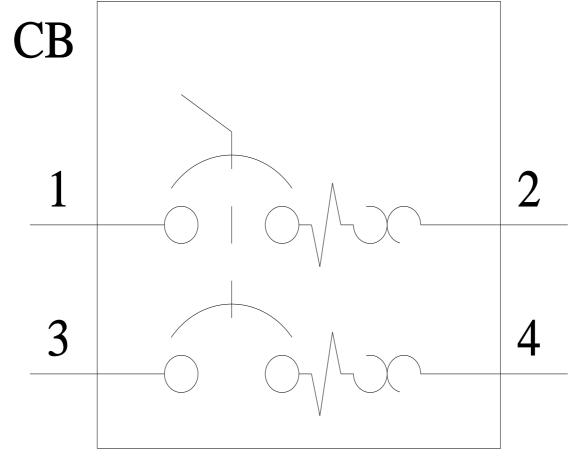












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