SIEMENS

Data sheet

3VA5120-5ED26-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 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. cable connection on both sides

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | MEAM |
| 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 | 0.657 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 | |
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| switching capacity class of the circuit breaker | Μ |
| 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 | 85 kA |
| • at 480 V | 35 kA |
| • at 600 Y/347 V | 18 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 | 20 A |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum | 20 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 | 15 |
| adjustable response factor setting current (li) / for l- tripping / minimum | 15 |
| adjustable response factor setting current (li) / for l- tripping / maximum | 15 |
| adjustable response value setting current (li) / for I-tripping / minimum | 300 A |
| adjustable response value setting current (li) / for I-tripping / maximum | 300 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_20A_TM2_SuMuH_uT |
| tripping characteristic / of the upper tolerance band | AK_3VA5_1_20A_TM2_SuMuH_oT |
| let-through energy characteristic / at 240 V | DE_3VA5_1_20A_TM2_line_2p_240V |
| let-through energy characteristic / at 415 V | DE_3VA5_1_20A_TM2_line_2p_415V |
| type of value list setting current (li) / for l-tripping | Fest |

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Further information

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=3VA5120-5ED26-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5120-5ED26-1AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

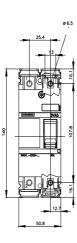
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5120-5ED26-1AA0

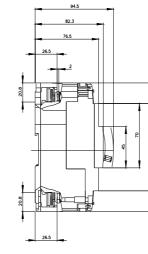
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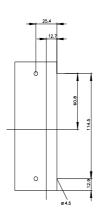
http://www.siemens.com/cax

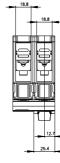
Tender specifications

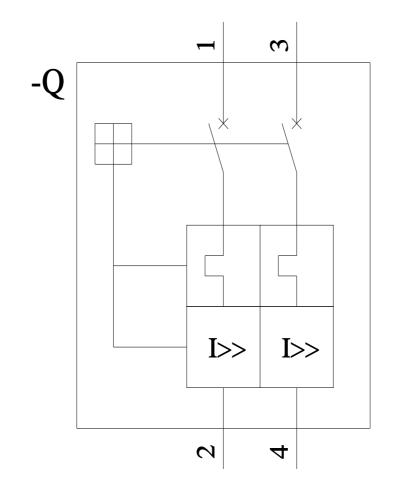
http://www.siemens.com/specifications

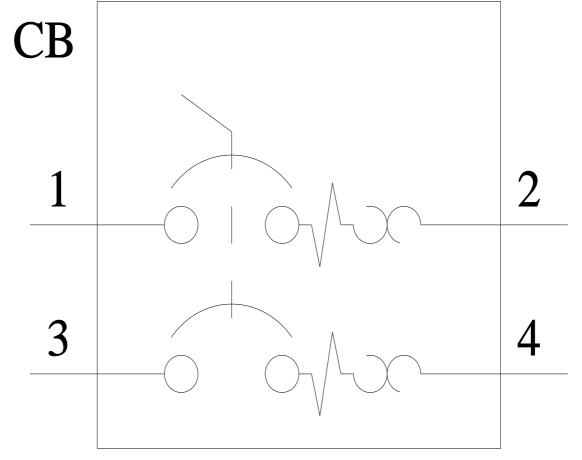












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