SIEMENS

Data sheet

3VA5190-4ED56-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277 V 1-pole, line protection TM210, FTFM, In=90A overload protection Ir=90A fixed short circuit protection Ii=10 x In cable connection

| Model | |
|---|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | SEAS |
| design of the product | 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 | TM210 |
| protection function of the overcurrent release | LI |
| number of poles | 1 |
| General technical data | |
| insulation voltage / rated value | 500 V |
| operating voltage / at DC / rated value | 125 V |
| operating voltage / at AC / rated value | 415 V |
| power loss [W] / maximum | 7.13 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 7.13 W |
| mechanical service life (operating cycles) / typical | 20 000 |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V | 8 000 |
| electrical endurance (operating cycles) / at AC-1 / at 690 V | 4 000 |
| electrical endurance (operating cycles) / at 480 V | 8 000 |
| electrical endurance (operating cycles) / at 600 V | 4 000 |
| product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof | No |
| ground-fault monitoring version | without |
| product function | |
| communication function | No |
| other measurement function | No |
| Net Weight | 0.541 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| • at 40 °C | 90 A |
| ● at 45 °C | 88 A |
| ● at 50 °C | 86 A |
| ● at 55 °C | 84 A |
| ● at 60 °C | 82 A |
| ● at 65 °C | 80 A |

| Take 10 C 2 KA Instituting capacity class of the citual breaker 9 Instrum inter-citual current breaking capacity (los) 25 kA I add V 26 kA I add V 16 kA < | ● at 70 °C | 79 A |
|---|---|---|
| switching capacity class of the circuit breaker S maintime short-circuit current breaking capacity (icu) 25 kA • et 240 Y 25 kA • et 150 Y 25 kA • et 150 Y 25 kA • et 240 Y 25 kA <tr< td=""><td></td><td></td></tr<> | | |
| main whot-creat current breaking capacity (bcu) 25 kA • at 24 V 5 kA operating short-circuit current threaking capacity (bcs) 5 kA • at 24 to V 5 kA • at 24 to V 5 kA • at 24 to V 5 kA • at 41 to V 7 5 kA design of short-circuit protection For switching power values in DC networks, see the 3VA moded case circuit breaking capacity (according to UL 489 current threaking capacity 65 kA • at 12 V 65 kA • at 27 V 14 kA Adjustible parameters Moded case circuit breaking capacity (br) / of the L trip / with 14 kA Adjustible parameters 14 kA Adjustible parameters 90 A • maximum 90 A • maximum <td< td=""><td></td><td>S</td></td<> | | S |
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| • • • • • • • • • • • • • • • • • • • | | 25 kA |
| operating short-drcuit current breaking capacity (ics) 25 kA •••••••••••••••••••••••••••••••••••• | | |
| • ±240 V 25 kA shot-struct current making capacity (icm) 55 kA • ±1240 V 52.5 kA • ±145 V 75 5 kA design of shot-circul protection For avtiching power values in DC networks, see the 3VA moded case circuit breaking capacity according to UL 489 Current breaking capacity • ±120 V • ±122 V 65 kA • ±123 V 25 kA • ±123 V 65 kA • ±123 V 25 kA • ±123 V 65 kA • ±123 V 25 kA • ±127 V 25 kA • ±137 V 25 kA • ±137 V 25 kA • ±137 V 14 kA Adjustable response value setting current (h/ / of L-1/tipping / whit 12/tipping / whit 12/ | | |
| • • • • • • • • • • • • • • • • • • • | | 25 kA |
| short-strout current making capacity (tem) i at 240 V i at 415 V 25.5 kA For switching power values in DC networks, see the 3VA molded case circuit breaker dovice manual; link to be found under Service & Support in the last chapter Switching capacity according to UL-449 current breaking capacity i at 20 V i at 20 V i at 27 V Adjustable parameters Adjustable parameters Adjustable parameters amaximum 90 A adjustable response values eating current (tr) / of the L-tip / with 12t characterisis i minimum i adjustable response values eating current (tr) / for L-tipping i minimum i adjustable response values eating current (tr) / for L-tipping i minimum i adjustable response value eating current (tr) / for L-tipping i minimum i adjustable response value eating current (tr) / for L-tipping i minimum i adjustable response value eating current (tr) / for L-tipping i minimum o A adjustable response value eating current (tr) / for L-tipping i minimum o A adjustable response value eating current (tr) / for L-tipping i minimum o A adjustable response value eating current (tr) / for L-tipping i minimum o A adjustable response value eating current (tr) / for L-tipping i minimum o A adjustable response value eating current (tr) / for L-tipping i minimum o A adjustable response value eating current (tr) / for L-tipping i minimum o A adjustable response value eating current (tr) / for L-tipping i minimum o A adjustable response value eating current (tr) / for L-tipping i minimum b a adjustable response value eating current (tr) / for L-tipping i minimum b a adjustable response value eating current (tr) / for L-tipping i minimum b a adjustable response value eating current (tr) / for L-tipping i minimum b a adjustable response value eating current (tr) / for L-tipping i minimum b a adjustable response value eating current (tr) / for L-tipping i minimum b a adjustable response value eating current (tr) / for L-tipping i minimum b a adjustable response current re | | |
| ai 240 V 52.5 kA design of shart-circuit protection For switching power values in DC networks, see the 3VA moded case circuit breaking capacity according to UL 499 current breaking capacity Eventorial int into the found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device manual, link to be found under Service & Support in the test device device manual, link to be found under Service & Support in the test device d | | |
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| design of short-circuit protection For switching protections For switching protections Switching capacity according to UL-489 External time to be found under Service & Support in the last chapter current breaking capacity 65 kA • at 220 V 25 kA • at 220 V 26 kA • at 220 V 26 kA • at 247 V 14 kA • at 247 V 26 kA • at 347 V 10 kA <td></td> <td>7.5 kA</td> | | 7.5 kA |
| breaker device manual: link to be found under Service & Support in the last dapter Service & Support in the fort dapter Se | design of short-circuit protection | For switching power values in DC networks, see the 3VA molded case circuit |
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| et 277 V et 25 kA it 347 V f 4 kA description adjustable response value setting current (lr) / of the L-trip / with iz characteristic iminium 90 A maximum 90 A iminium 0 A iminium 1s iminium 1s iminium 00 A iminium 1s iminium iminium 00 A iminium iminium 00 A iminium iminium 00 A iminium iminium 00 A iminium 00 A iminium iminium 00 A iminium | | 65 kA |
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| Adjustable response value setting current (i/) / of the L-trip / with 90 A adjustable response value delay time (tr) / for L-tripping / with 12t 90 A adjustable response value delay time (tr) / for L-tripping / with 12t 1 characteristic 90 A adjustable response value setting current (ii) / for L-tripping 1 eminimum 1 adjustable response value setting current (ii) / for I-tripping 900 A eminimum 900 A adjustable response value setting current (ii) / for I-tripping 900 A adjustable response value setting current (iii) / for I-tripping 900 A eminimum 00 A adjustable current response value current / of the current- 90 A adjustable current response value current / of the current- 90 A adjustable conductor grounding protection No Mechanical Dosign 90 A • voltage tigger No • voltage tigger No • voltage tigger No • trip indicator 5.51 in height [in] 5.51 in height [in] 3.01 in depth 7.65 mm Connectable connectors / for main current | | |
| adjustable response value setting current (ir) / of the L-trip / with I2t characteristic 90 A • minimum 90 A adjustable response value delay time (ir) / for L-tripping / with 12t 90 A • minimum 1 s adjustable response value delay time (ir) / for L-tripping 900 A • minimum 1 s adjustable response value setting current (iii) / for I-tripping 900 A • minimum 900 A adjustable response value setting current (iii) / for I-tripping 900 A • maximum 900 A adjustable current response value current (inN) / for N-tripping 0 A • minimum 0 A adjustable current response value current / of the current- dependent coredata release 90 90 A roduct function / grounding protection No No • voltage trigger No • voltage trigger No • voltage trigger No • voltage trigger No • voltage trigger No • voltage trigger No • voltage trigger No • voltage trigger No • voltage trigger No • volt | | |
| IZ characteristic 90 A • maximum 90 A adjustable response value delay time (tr) / for L-tripping / with I2t • • maximum 1 s adjustable response value setting current (ii) / for I-tripping • • maximum 900 A adjustable response value setting current (iii) / for I-tripping • • maximum 900 A adjustable response value setting current (iii) / for I-tripping • • maximum 900 A adjustable current response value current / of the current- 90 90 A adjustable current response value current / of the current- 90 90 A adjustable current response value current / of the current- 90 90 A reduct function / grounding protection No Mechanical Design No • undervoltage release No • voltage trigger No • trip indicator So1 in height 140 mm width [in] 301 in depth 301 in depth 301 in depth [in] 301 in depth [in] 301 in depth for main current circuit Product consponter Irron consection with for for main current circuit Produ | | |
| • maximum 90 A adjustable response value delay time (tr) / for L-tripping / with 12t - • minimum 1 s • maximum 1 s • maximum 900 A • maximum 0 A • unative entresponse value current / of the current- 9090 A dependent overload release No • undervoltage release No • undervoltage release No • undervoltage trigger No • trip indicator No • trip indicator No width [in] 5.51 in height [in] | | |
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| 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 | type of electrical connection / for main current circuit | circular conductor terminal on both sides |
| Accessories product extension / optional / motor drive No Environmental conditions IP40 ambient temperature IP40 | Auxiliary circuit | |
| product extension / optional / motor drive No Environmental conditions IP40 ambient temperature IP40 | number of CO contacts / for auxiliary contacts | 0 |
| Environmental conditions protection class IP / on the front IP40 ambient temperature IP40 | Accessories | |
| protection class IP / on the front IP40 ambient temperature IP40 | product extension / optional / motor drive | No |
| ambient temperature | Environmental conditions | |
| | protection class IP / on the front | IP40 |
| • during operation / minimum -25 °C | - | |
| | during operation / minimum | -25 °C |

| during operation / during storage / n | | 70 °C -40 °C | | | |
|---|---|--|---------------------------|---|--------------------------|
| during storage / n | | 80 °C | | | |
| Certificates | | | | | |
| reference code / accord | ing to IEC 81346-2 | Q | | | |
| General Product Appr | oval | | | | |
| | <u>Confirmation</u> | | | | <u>Miscellaneous</u> |
| General Product Approval | EMC | Declaration of Conform | nity | Test Certificates | Marine / Shipping |
| EHC | RCM | UK CA | CE EG-Konf. | Type Test Certific- ates/Test Report | ABS |
| Marine / Shipping | | | | other | |
| BUREAU VERITAS | | Lloyd's Register us | KMRS RMRS | <u>Confirmation</u> | <u>Miscellaneous</u> |
| urther information Siemens has decided f | | | | | |
| Siemens is working or Please contact your loca EAC relevant market (of Information on the page | the renewal of the cur al Siemens office on the her than the sanctioned | status of validity of the EAC EAEU member states Russ | certification if you inte | end to import or offer to supp | oly these products to an |

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3VA5190-4ED56-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-4ED56-0AA0

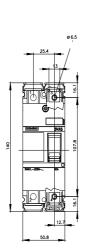
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5190-4ED56-0AA0

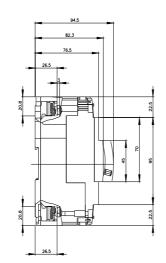
CAx-Online-Generator

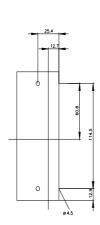
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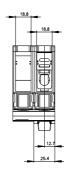
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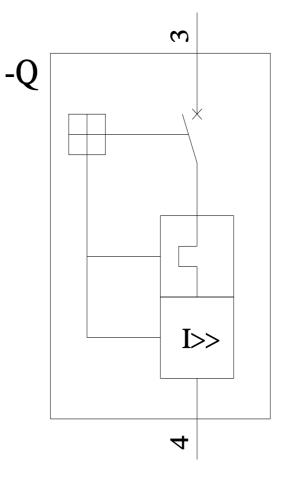
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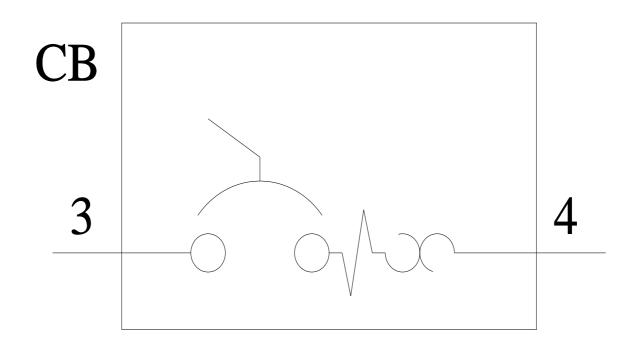












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