SIEMENS

Data sheet

3VA4140-5ED14-1AA0



circuit breaker 3VA4 UL frame 125 breaking capacity class M 35kA @ 277 V 1-pole, line protection TM210, FTFM, In=40A overload protection Ir=40A fixed short-circuit protection Ii=10 x In UL489 SB (naval), 50 deg. cel. clamp connection

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | MEAM |
| 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 | |
| operating voltage / at AC / rated value | 415 V |
| power loss [W] / maximum | 3.5 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 3.5 W |
| mechanical service life (operating cycles) / typical | 15 000 |
| 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 | 0.28 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| • at 40 °C | 40 A |
| • at 45 °C | 40 A |
| • at 50 °C | 40 A |
| • at 55 °C | 39 A |
| ● at 60 °C | 39 A |
| ● at 65 °C | 38 A |
| • at 70 °C | 37 A |
| Switching capacity according to IEC 60947 | |
| 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 |

| chapter control to due of out of out | | breaker device manual: link to | be found under Service | e & Support in the last | | |
|---|---|--|------------------------|-------------------------|--|--|
| current breaking capacity 35 kA • 11 20 V 35 kA • 12 37 V 35 kA • 13 347 V 18 kA Adjustable parameters adjustable parameters adjustable parameters adjustable parameters adjustable parameters adjustable parameters adjustable parameters adjustable parameters • minimum 1 s • maximum 1 s • maximum 1 s • maximum 1 s • maximum 1 s • molerollage release No • vollage trigger No • vollage trigger No • fight [n] 5.09 in fight [n] 1 in width 2.94 mm depth [n] 2.96 in depth (n] 2.96 in depth (n] 5.1 mm Connections In arrangement of electrical connections / for main current circuit Intel static: Low faib fight dension / optional / moor dirue Intel static: Low faib reading of the surface / of the conne | | breaker device manual; link to be found under Service & Support in the last chapter | | | | |
| al 120 V al 347 V 35 kÅ al 347 V al 35 and and 120 V and 120 V <l< td=""><td>vitching capacity according to UL 489</td><td></td><td></td><td></td></l<> | vitching capacity according to UL 489 | | | | | |
| *1277 V *1347 V 1347 V 135 V 136 V 137 V 13 130 V 140 V 15 ************************************ | current breaking capacity | | | | | |
| • a1 347 V 18 kA Algustable reameters algustable reameters • indimum 1 s • maximum 1 s • maximum 1 s product function / grounding protection No Atechanical Design product function / grounding protection No Atechanical Design • undervoltage release No • undervoltage release N | • at 120 V | 85 kA | | | | |
| Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum 1 s • maximum 7 ts • undervoltag release • voltage trigger • undervoltage release • undervoltage | • at 277 V | 35 kA | 35 kA | | | |
| adjustable response value delay time (tr) / for L-tripping / with 1/2t characteristic ininimum is a s inaximum is a s inaximu | • at 347 V | 18 kA | | | | |
| characteristic 1 s • mainimum 1 s • maximum 1 s product function / grounding protection No Acchanical Design No • undervoltage release No • voltage trigger No • height [in] 5.09 in height [in] 5.09 in height [in] 5.09 in height [in] 1 in voltage trigger No width [in] 1 in voltage trigger S.09 in depth fin] 2.94 mm depth fin] 2.96 in depth (in] 2.96 in depth (in] 0 stype of leastice incular conductor connection using a finate content or for main current circuit output side: circular conductor connection type of electrical connections / on the bottom of the side: Low tab use of the connections / on the bottom of the side: Low tab using a peration / motor drive No use of the connections / on the bottom of the side: Low tab using a peration / motor drive No the side: Low tab protection class IP / on the front | djustable parameters | | | | | |
| • maximum 1 s product function / grounding protection No Achanical Design | | | | | | |
| product function / grounding protection No forchanical Dosign | • minimum | 1 s | | | | |
| Ackanical Design product component | • maximum | 1 s | | | | |
| product component No • undervoltage release No • voltage trigger No • trip indicator No height [in] 5.09 in height [in] 129.4 mm width [in] 1 in depth [in] 2.96 in depth [in] 2.96 in depth 100 75.1 mm Connections output side: circular conductor connection type of electrical connectors / for main current circuit output side: circular conductor connection type of electrical connectors / for main current circuit infeed side: Low tab theight of the connections / on the bottom of the switch (N, 2, 4, 6) Tin uxillary circuit Tin number of CO contacts / for auxiliary contacts 0 excressories Vecessories protection class IP / on the front IP40 ambient emperature - 4uring storage / maimum • during storage / maimum 80 °C etrificates Sone certificate of suitability / as approval for NAVAL (no combat yets vessels/ suitappilement SB Yets <td>product function / grounding protection</td> <td>No</td> <td></td> <td></td> | product function / grounding protection | No | | | | |
| • undervoltage release No • voltage trigger No • voltage trigger No • height [n] So9 in height [n] 129.4 mm width [n] 1 in width [n] 25.4 mm depth [n] 26.6 in depth [n] 26.6 in depth 75.1 mm Tomation connections Infeed side: circular conductor connection arrangement of electrical connectors / for main current circuit output side: circular conductor connection type of electrical connectors / for main current circuit Infeed side: Low tab Tom runner of CO contacts / for auxiliary contacts 0 Soccessories protection class IP / on the front IP40 IP40 ambient temperature - Quring storage / maximum -25 °C • during operation / maximum -25 °C - Quring storage / maximum • during storage / maximum -25 °C - Quring storage / maximum • during storage / maximum -25 °C - Quring storage / maximum • during storage / maximum -25 °C - Quring storage / maximum </td <td>echanical Design</td> <td></td> <td></td> <td></td> | echanical Design | | | | | |
| • voltage trigger No • trip indicator No height [in] 5.09 in height 129.4 mm width [in] 11 width 25.4 mm depth [in] 2.96 in depth [in] 2.96 in depth [in] 2.96 in other the connections In arrangement of electrical connectors / for main current circuit output side: circular conductor connection type of electrical connection / for main current circuit output side: circular conductor connection type of electrical connection / for main current circuit output side: circular conductor connection vatiliary circuit Tin In number of CO contacts / for auxiliary contacts 0 In verstories In In In product extension / optional / motor drive No In In number of CO contacts / for auxiliary contacts 0 In In verstories In In In In product extension / optional / motor drive No In In | product component | | | | | |
| • trip indicator No height [in] 5.09 in height 129.4 mm width [in] 1 in width [in] 2.64 mm depth 2.64 mm depth [in] 2.96 in depth 75.1 mm connections arrangement of electrical connectors / for main current circuit output side: circular conductor connection Infeed side: Low tab feys of electrical connections / for main current circuit Infeed side: Low tab feys of the connections / on the bottom of the switch (N, 2, 4, 6) Tin vikilary cricut Tin number of CO contacts / for auxiliary contacts 0 viccessories 0 product extension / optional / motor drive No environmental conditions 1P40 ambient temperature - eduring sporage / minimum -25 °C eduring storage / minimum -00 °C eduring storage / minimum 80 °C eduring storage / minimum 80 °C | undervoltage release | No | | | | |
| height [in] 5.09 in height 129.4 mm width [in] 1 in width 25.4 mm depth [in] 25.4 mm depth [in] 29.6 in depth [in] 29.6 in depth [in] 29.6 in depth (in] 75.1 mm Connections arrangement of electrical connectors / for main current circuit output side: circular conductor connection Image side: Low tab total connectors / for main current circuit for electrical connectors / for main current circuit Infeed side: Low tab total connectors / for main current circuit design of the surface / of the connections / on the bottom of the Tin surface side: Low tab total connectors / for auxiliary contacts product extension / optional / motor drive nonder Extension / optional / motor dri | voltage trigger | No | | | | |
| height 129.4 mm 129.4 mm 129.4 mm 129.4 mm 11 in 11 in 25.4 mm 25.9 in 75.1 mm 25.0 metalon 25.4 mm 25.9 in 75.1 mm 25.0 metalon 25.4 mm 25.9 in 75.1 mm 25.0 metalon 25.4 mm 25.0 metalon 25.4 mm 25.0 metalon 25.4 mm 25.0 metalon 25.4 mm 25.0 mm 2 | • trip indicator | No | | | | |
| width [in] 1 in width 25.4 mm 2.96 in 2.96 in 2. | neight [in] | 5.09 in | | | | |
| width 25.4 mm depth [in] 2.96 in depth 75.1 mm connections 75.1 mm connections arrangement of electrical connectors / for main current circuit output side: circular conductor connection type of electrical connection / for main current circuit Infeed side: Low tab To design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Tin witchild contacts / for auxiliary contacts 0 Consorties number of CO contacts / for auxiliary contacts 0 Consorties product extension / optional / motor drive No Consorties protection class IP / on the front IP40 aminent temperature eduring operation / minimum -25 °C Conformation eduring storage / maximum 70 °C Conformation eduring storage / maximum 80 °C Conformation contrictes Conformation Yes | neight | 129.4 mm | | | | |
| depth [in] 2.96 in depth 75.1 mm connections output side: circular conductor connection arrangement of electrical connectors / for main current circuit output side: circular conductor connection type of electrical connection / for main current circuit Infeed side: Low tab Infeed side: Low tab design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Infeed side: Low tab number of CO contacts / for auxiliary contacts 0 Vector Vector number of CO contacts / for auxiliary contacts 0 Vector Vector product extension / optional / motor drive No Vector Vector protection class IP / on the front IP40 ambient temperature Vector Vector e during operation / minimum -25 °C | width [in] | 1 in | | | | |
| depth 75.1 mm connections output side: circular conductor connection type of electrical connectors / for main current circuit Infeed side: Low tab design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Auxiliary circuit number of CO contacts / for auxiliary contacts 0 Number of CO contacts / for auxiliary contacts 0 | width | 25.4 mm | | | | |
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| arrangement of electrical connectors / for main current circuit output side: circular conductor connection type of electrical connection / for main current circuit Infeed side: Low tab the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) trin a switch (N, 2, 4, 6) tri | depth | 75.1 mm | | | | |
| type of electrical connection / for main current circuit Infeed side: Low tab design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Auxiliary circuit Tin number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive No Environmental conditions IP40 ambient temperature | onnections | | | | | |
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| switch (N, 2, 4, 6) 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 • 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 General Product Approval for NAVAL (no combat Ves | type of electrical connection / for main current circuit | Infeed side: Low tab | | | | |
| number of CO contacts / for auxiliary contacts 0 Accessories No product extension / optional / motor drive No Environmental conditions IP40 ambient temperature IP40 • during operation / minimum -25 °C • during operation / maximum 70 °C • during storage / minimum -40 °C • during storage / maximum 80 °C Certificates Ves Certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB Yes General Product Approval Kes | | Tin | | | | |
| Accessories product extension / optional / motor drive No Environmental conditions protection class IP / on the front ambient temperature | uxiliary circuit | | | | | |
| product extension / optional / motor drive No invironmental conditions protection class IP / on the front IP40 ambient temperature | number of CO contacts / for auxiliary contacts | 0 | | | | |
| invironmental conditions protection class IP / on the front IP40 ambient temperature -25 °C • 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 General Product Approval Yes Miscellaneous Confirmation | ccessories | | | | | |
| protection class IP / on the front IP40 ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 70 °C • during storage / minimum -40 °C • during storage / maximum 80 °C Certificates | product extension / optional / motor drive | No | | | | |
| ambient temperature during operation / minimum -25 °C during operation / maximum 70 °C during storage / minimum -40 °C during storage / maximum 80 °C Sertificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB General Product Approval Miscellaneous Confirmation | vironmental conditions | | | | | |
| 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 Yes | protection class IP / on the front | IP40 | | | | |
| during operation / maximum during storage / minimum -40 °C eduring storage / maximum 80 °C certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB General Product Approval Yes | ambient temperature | | | | | |
| during operation / maximum during storage / minimum -40 °C during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB General Product Approval Yes | during operation / minimum | -25 °C | | | | |
| | | | | | | |
| Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB General Product Approval EMC other Miscellaneous Confirmation | during storage / minimum | -40 °C | | | | |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB Yes General Product Approval EMC other | | 80 °C | | | | |
| Vessels) / supplement SB General Product Approval EMC other Confirmation | ertificates | | | | | |
| Miscellaneous | | Yes | | | | |
| Miscellaneous | | | EMC | other | | |
| | | | • | Confirmation | | |

other

Miscellaneous

Miscellaneous

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging

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=3VA4140-5ED14-1AA0

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

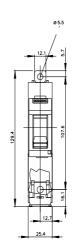
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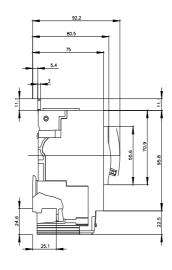
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4140-5ED14-1AA0

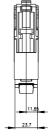
CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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