SIEMENS

Data sheet

3VA4140-5ED54-0AA0



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 clamp connection

| Model | |
|--|--|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | MEAB |
| 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 | 0.426 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| ● at 40 °C | 40 A |
| ● at 45 °C | 39 A |
| • at 50 °C | 39 A |
| ● at 55 °C | 38 A |
| ● at 60 °C | 37 A |
| ● at 65 °C | 36 A |
| ● at 70 °C | 36 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 |

| Switching capacity according to UL 489 current breaking capacity • at 120 V • at 277 V 35 kA • at 347 V Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum 1 s • maximum 1 s product function / grounding protection No Machanical Dosign No • undervoltage release No • voltage trigger No • undervoltage release No • voltage trigger No • width (in) 2 in width 509 in height [n] 2.96 in depth 75.1 mm Connections 0 Auxiliary circuit Infeed side: Low tab Tin Tin Auxiliary circuit 0 Auxiliary circuit Infeed side: Low tab Tin Tin Auxiliary circuit Infeed side: Low tab Tin Divide site in fort for auxiliary contacts | | breaker device manual; link to be found under Service & Support in the last chapter |
|--|---|--|
| • at 120 V 85 kA • at 277 V 35 kA • at 347 V 85 kA Adjustable response value delay time (tr) / for L-tripping / with 12t characteristic | witching capacity according to UL 489 | |
| • at 277 V35 kA• at 347 V18 kAAdjustable parameters | current breaking capacity | |
| • at 347 V 18 kA vdjustable pesponse value delay time (tr) / for L-tripping / with 12t characteristic - • minimum 1 s • maximum 1 s • maximum 1 s • product function / grounding protection No • decharical Design No • undervoltage release No • undervoltage release No • voltage trigger No • trip indicator No height [in] 5.09 in height [in] 5.09 in height [in] 5.08 mm depth for 7.51 mm Connections Infeed side: Low tab arrangement of electrical connectors / for main current circuit 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 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 output side: circular conductor connection type of electrical connectors / for main current circuit< | • at 120 V | 85 kA |
| Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with 12t characteristic inininum 1 s inininum 1 s maximum 1 s product function / grounding protection No Acchanical Design No product component Image: Component indervoltage release No ivoltage trigger No ivoltage trigger No ivoltage trigger So 9 in height 129.4 mm width [in] 2 in width [in] 2.96 in depth [in] 2.96 in depth [in] 2.96 in depth 75.1 mm connections Infeed side: Low tab width (N, 2, 4, 6) Tin width (N, 2, 4, 6) O wurdter victual connection / for main current circuit Infeed side: Low tab wurdter of CO contacts / for auxiliary contacts 0 vecessories Vecessories product extension / optional / motor drive No product extension / opti | • at 277 V | 35 kA |
| adjustable response value delay time (tr) / for L-tripping / with l2t characteristic minimum 1s maximum 1s product function / grounding protection No Acchanical Dosign Forduct component undervoltage release No voltage trigger No voltage trig | • at 347 V | 18 kA |
| adjustable response value delay time (tr) / for L-tripping / with l2t characteristic minimum 1s maximum 1s product function / grounding protection No Acchanical Dosign Forduct component undervoltage release No voltage trigger No voltage trig | djustable parameters | |
| • maximum 1 s product function / grounding protection No Machaical Design | adjustable response value delay time (tr) / for L-tripping / with I2t | |
| product function / grounding protection No Acchanical Design No product component No • undervoltage release No • voltage trigger No • trip indicator No height [in] 5.09 in height [in] 2.90 in height [in] 2.90 in width 50.8 mm depth [in] 2.96 in depth [in] 2.96 in depth [in] 2.96 in otpet lectrical connectors / for main current circuit output side: circular conductor connection type of electrical connections / on the bottom of the switch (N, 2, 4, 6) Tin uxiliary circuit Infeed side: Low tab Concertion undher of CO contacts / for auxiliary contacts 0 Concertion construct extension / optional / motor drive No No product extension / optional / motor drive No Concertion protection class IP / on the front IP40 ambient temperature Concertion / So °C outring operation / minimum -25 °C Concertion / So °C Co | • minimum | 1 s |
| Achanical Design product component • undervoltage release No • voltage trigger No • trip indicator No height [in] 5.09 in height [in] 2.94 mm width 50.8 mm depth [in] 2.96 in depth 70.8 mm connections 2.96 in arrangement of electrical connectors / for main current circuit output side: circular conductor connection type of electrical connections / on the bottom of the switch (N, 2, 4, 6) Tin widthict of CO contacts / for auxiliary contacts 0 vccessories 0 product extension / optional / motor drive No enving operation / maintum -25 °C • during operation / maintum -25 °C • during operation / maintum 70 °C | • maximum | 1 s |
| Achanical Design product component • undervoltage release No • voltage trigger No • trip indicator No height [in] 5.09 in height [in] 129.4 mm width 50.8 mm depth [in] 2.96 in depth 7.96 in depth 7.97 mm onnections Infeed side: Low tab arrangement of electrical connectors / for main current circuit Infeed side: Low tab theis surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Axtiliary circuit Infeed side: Low tab number of CO contacts / for auxiliary contacts 0 Axcessories Product extension / optional / motor drive protection class IP / on the front IP40 | product function / grounding protection | No |
| product component No • undervoltage release No • voltage trigger No • trip indicator No height [in] 5.09 in height 129.4 mm width [in] 2 in width [in] 2.96 in depth [in] 2.96 in depth 1 75.1 mm 20nnections | | |
| • undervoltage releaseNo• voltage triggerNo• trip indicatorNoheight [in]5.09 inheight [in]129.4 mmwidth [in]2 inwidth [in]2.96 indepth [in]2.96 indepth [in]2.96 indepth [in]0.91 mmconnections100 mmconnections100 mmconnections100 mmconnections / for main current circuitInfeed side: circular conductor connectiontype of electrical connectors / for main current circuitInfeed side: Low tabdesign of the surface / of the connections / on the bottom of the writch (N, 2, 4, 6)10connect or1number of CO contacts / for auxillary contacts0conduct extension / optional / motor driveNoproduct extension / optional / motor driveNoprotection class IP / on the front ambient temperatureIP40• during operation / minimum-25 °C• during operation / maximum70 °C | | |
| • voltage triggerNo• trip indicatorNoheight (in)5.09 inheight129.4 mmwidth [in]2 inwidth (in)2.96 indepth [in]2.96 indepth (in)2.96 indepth (in)0.100 to the second conditions (in the second con | | No |
| • trip indicatorNoheight (in]5.09 inheight (in]129.4 mmwidth (in]2 inwidth (in]2.96 indepth (in]2.96 indepth (in]0.40 mmconnectionsconnectionsconnection of electrical connectors / for main current circuitoutput side: circular conductor connectiontype of electrical connectors / for main current circuitInfeed side: Low tabconnections / or the bottom of the witch (N, 2, 4, 6)Auxiliary contactsOAuxiliary contactsoproduct extension / optional / motor driveNoconnections / or the fortIP40aumbient temperature- éuring operation / minimum-25 °C- éuring operation / maximum70 °C | - | |
| height [in]5.09 inheight129.4 mmwidth [in]2 inwidth50.8 mmdepth [in]2.96 indepth75.1 mmConnectionsarrangement of electrical connectors / for main current circuitoutput side: circular conductor connectiontype of electrical connection / for main current circuitInfeed side: Low tabdesign of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)TinAuxiliary circuitnumber of CO contacts / for auxiliary contacts0Accessoriesproduct extension / optional / motor driveNoIPoduct extension / optional / motor driveprotection class IP / on the frontIP40ambient temperature-25 °Ce during operation / maximum-25 °Ce during operation / maximum70 °C | | |
| height129.4 mmwidth [in]2 inwidth50.8 mmdepth [in]2.96 indepth75.1 mmConnectionsarrangement of electrical connectors / for main current circuittype of electrical connectors / for main current circuitoutput side: circular conductor connectiontype of electrical connection / for main current circuitInfeed side: Low tabdesign of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)TinAuxiliary circuit0number of CO contacts / for auxiliary contacts0Accessories0product extension / optional / motor driveNoEnvironmental conditionsIP40ambient temperature • during operation / minimum-25 °Couting operation / maximum70 °C | | |
| width [in]2 inwidth [in]50.8 mmdepth [in]2.96 indepth75.1 mmConnectionsarrangement of electrical connectors / for main current circuitoutput side: circular conductor connectiontype of electrical connectors / for main current circuitInfeed side: Low tabdesign of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)TinAuxiliary circuitInfeed side: Low tabnumber of CO contacts / for auxiliary contacts0Accessories0product extension / optional / motor driveNoEnvironmental conditionsIP40ambient temperature • during operation / minimum-25 °Cof uring operation / maximum70 °C | | |
| width 50.8 mm depth 2.96 in depth 75.1 mm Connections arrangement of electrical connectors / for main current circuit output side: circular conductor connection output side: circular conductor connection 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 0 number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive No Environmental conditions IP40 ambient temperature - 40 and - 25 °C o during operation / minimum -25 °C of or C 70 °C | | |
| depth [in] 2.96 in depth 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 output side: circular conductor connection design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Auxiliary circuit 0 number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive No environmental conditions IP40 ambient temperature -25 °C of during operation / maximum 70 °C | | |
| depth 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 design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Auxiliary circuit 0 number of CO contacts / for auxiliary contacts 0 Accessories product extension / optional / motor drive protection class IP / on the front IP40 ambient temperature -25 °C e during operation / maximum 70 °C | | |
| 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 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 -25 °C • during operation / maximum 70 °C | | |
| 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 design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Auxiliary circuit 0 number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive No Environmental conditions IP40 ambient temperature -25 °C • during operation / maximum 70 °C | | 75.1 mm |
| type of electrical connection / for main current circuitInfeed side: Low tabdesign of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)TinAuxiliary circuitTinnumber of CO contacts / for auxiliary contacts0AccessoriesProduct extension / optional / motor driveNoenvironmental conditionsIP40ambient temperature • during operation / minimum-25 °C• during operation / maximum70 °C | | |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Tin Auxiliary circuit 0 number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive No Environmental conditions IP40 ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 70 °C | | |
| switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive No Environmental conditions IP40 ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 70 °C | | |
| number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive No Environmental conditions 1P40 ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 70 °C | switch (N, 2, 4, 6) | Tin |
| 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 | | |
| product extension / optional / motor drive No Environmental conditions IP40 ambient temperature IP40 • during operation / minimum -25 °C • during operation / maximum 70 °C | • | 0 |
| Environmental conditions protection class IP / on the front IP40 ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 70 °C | ccessories | |
| protection class IP / on the front IP40 ambient temperature -25 °C • during operation / minimum -25 °C • during operation / maximum 70 °C | product extension / optional / motor drive | No |
| ambient temperature • during operation / minimum • during operation / maximum 70 °C | nvironmental conditions | |
| during operation / minimum -25 °C during operation / maximum 70 °C | protection class IP / on the front | IP40 |
| • during operation / maximum 70 °C | ambient temperature | |
| | during operation / minimum | -25 °C |
| • during storage / minimum -40 °C | during operation / maximum | 70 °C |
| | during storage / minimum | -40 °C |
| • during storage / maximum 80 °C | | 80 °C |
| Certificates | ertificates | |
| | during storage / maximum rertificates | 80 °C |

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=3VA4140-5ED54-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA4140-5ED54-0AA0

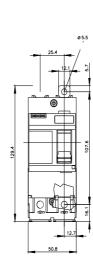
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4140-5ED54-0AA0

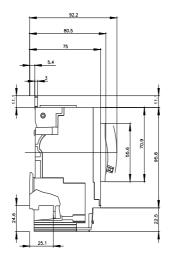
CAx-Online-Generator

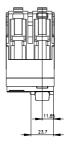
http://www.siemens.com/cax

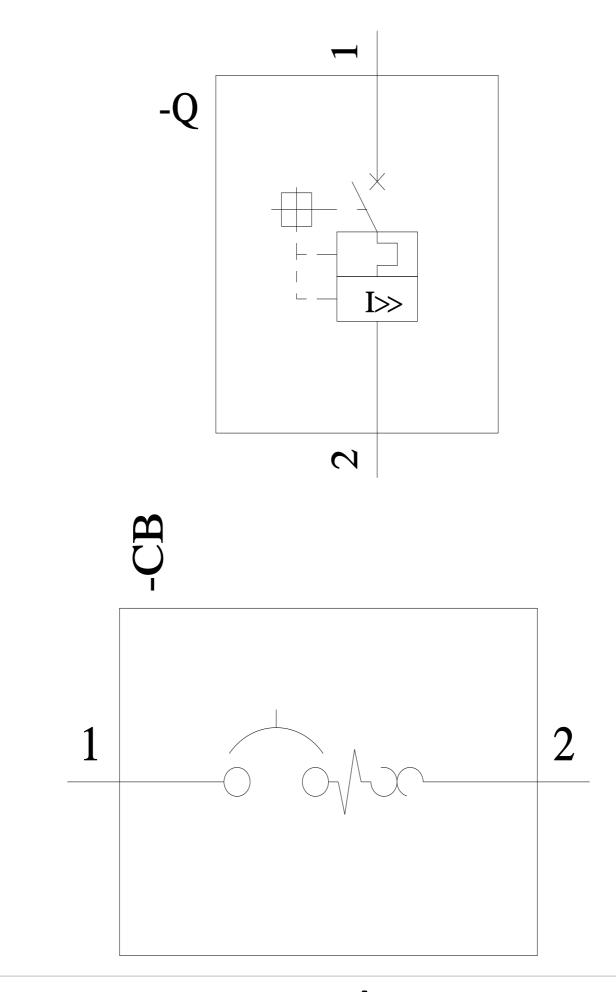
Tender specifications

http://www.siemens.com/specifications









last modified:

4/20/2023 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3VA41405ED540AA0