



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=2A without overload protection short-circuit protection li=5...12 x In nut keeper kit on both sides

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | HEAP |
| design of the product | Starter 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 | TM120M |
| protection function of the overcurrent release | I |
| number of poles | 3 |
| General technical data | |
| insulation voltage / rated value | 800 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 4 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 1.43 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/retrofitable / short-circuit and overload proof | No |
| product function | |
| • communication function | No |
| • phase failure detection | No |
| • other measurement function | No |
| Net Weight | 0.811 kg |
| Current | |
| marking / according to UL 489 / 100%-rated breaker | No |
| operational current | |
| • at 40 °C | 2 A |
| • at 45 °C | 2 A |
| • at 50 °C | 2 A |
| • at 55 °C | 2 A |
| • at 60 °C | 2 A |
| • at 65 °C | 2 A |
| • at 70 °C | 2 A |

| Switching capacity according to IEC 60947 | |
|--|--|
| maximum short-circuit current breaking capacity (I _{cu}) | |
| <ul style="list-style-type: none"> at 240 V at 415 V at 690 V | 150 kA 70 kA 10 kA |
| operating short-circuit current breaking capacity (I _{cs}) | |
| <ul style="list-style-type: none"> at 240 V at 415 V at 690 V | 150 kA 70 kA 5 kA |
| short-circuit current making capacity (I _{cm}) | |
| <ul style="list-style-type: none"> at 240 V at 415 V at 690 V | 330 kA 154 kA 17 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 |

| Adjustable parameters | |
|--|--------------|
| adjustable response value setting current (I _i) / for I-tripping | |
| <ul style="list-style-type: none"> minimum maximum | 10 A 24 A |
| adjustable setting current (I _{nN}) / for N-tripping | |
| <ul style="list-style-type: none"> minimum maximum | 0 A 0 A |
| product function / grounding protection | No |

| Mechanical Design | |
|---|----------------|
| product component | |
| <ul style="list-style-type: none"> undervoltage release voltage trigger trip indicator | No No No |
| height [in] | 5.51 in |
| height | 140 mm |
| width [in] | 3 in |
| width | 76.2 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 | nut keeper kit on both ends |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 12 x 1 mm |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 17 x 6.5 mm |

| Auxiliary circuit | |
|--|---|
| number of CO contacts / for auxiliary contacts | 0 |

| Accessories | |
|--|-----|
| product extension / optional / motor drive | Yes |

| Environmental conditions | |
|--|------------------------------------|
| protection class IP / on the front | IP40 |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation / minimum during operation / maximum during storage / minimum during storage / maximum | -25 °C 70 °C -40 °C 80 °C |
| reference code / according to IEC 81346-2 | Q |

| Approvals / Certificates | |
|--------------------------|--|
| General Product Approval | |



[Confirmation](#)



[Miscellaneous](#)

| | | | | |
|--------------------------|-----|-------------------|-------------------|-------|
| General Product Approval | EMV | Test Certificates | Marine / Shipping | other |
|--------------------------|-----|-------------------|-------------------|-------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



[Confirmation](#)

| | |
|-------|-------------|
| other | Environment |
|-------|-------------|

[Miscellaneous](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

Further information

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=3VA5102-1MH32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5102-1MH32-0AA0>

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

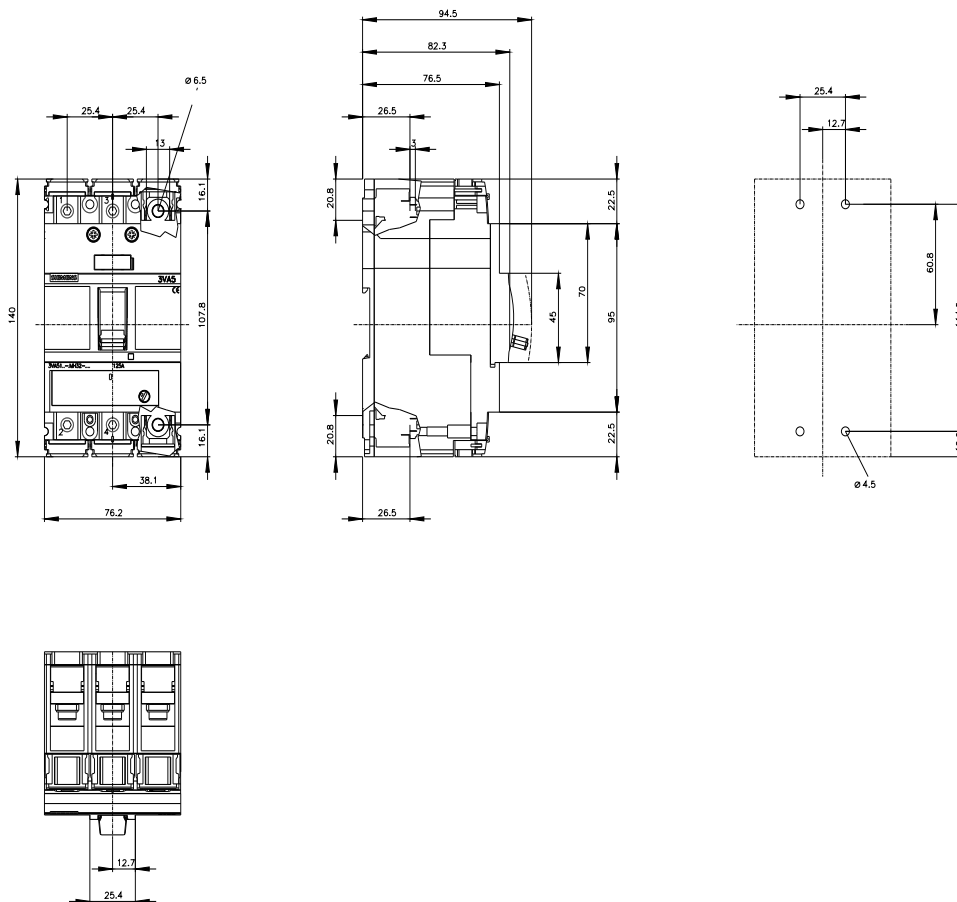
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5102-1MH32-0AA0

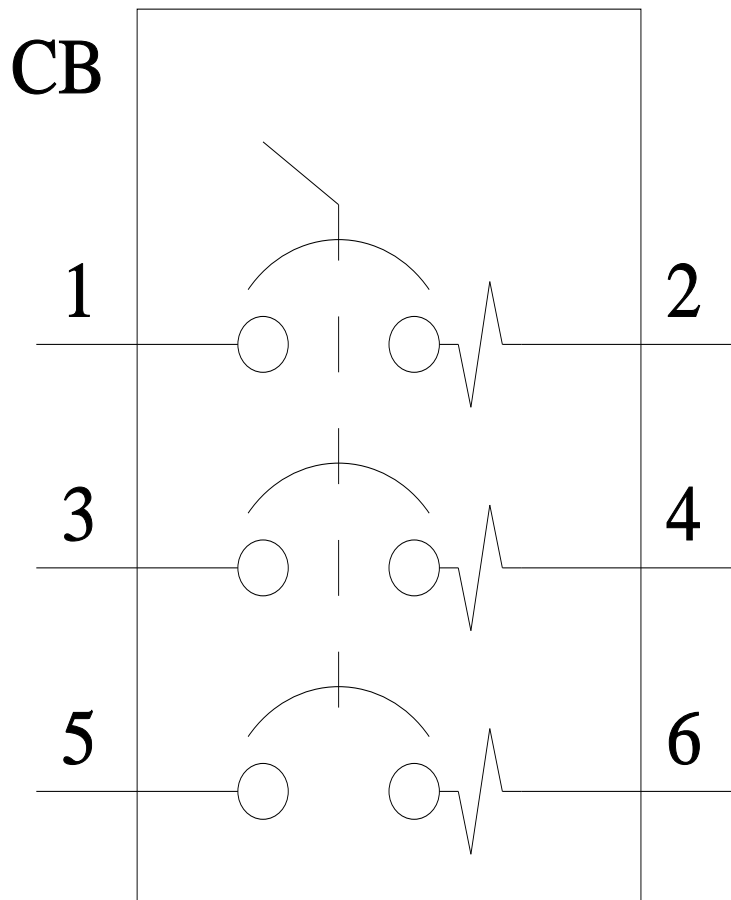
CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





last modified:

7/14/2022

