## 3VA5140-1MH32-0AA0

**Data sheet** 



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=40A 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                        |
| Product version  | Starter protection          |
| design of the load switch / according to UL 489 / Heating,<br>Air Conditioning, and Refrigeration circuit breaker (HACR<br>Type) | Yes                         |
| design of the load switch / according to UL 489 / High-<br>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   |                             |
| number of poles  | 3                           |
| General technical data   |                             |
| rated insulation voltage Ui  | 800 V                       |
| operating voltage / at AC / rated value  | 690 V                       |
| power loss [W] / maximum   | 3.6 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                                   | 1.2 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   |                             |
| <ul> <li>communication function</li> </ul>   | No                          |
| <ul> <li>phase failure detection</li> </ul>  | No                          |
| other measurement function   | No                          |
| Net Weight   | 1.034 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  | 40 A   |
|---|--|
| ● at 60 °C  | 40 A   |
| ● at 65 °C  | 40 A   |
| ● at 70 °C  | 40 A   |
| Switching capacity according to IEC 60947   |  |
| breaking capacity maximum short-circuit current (Icu)                                   |  |
| • at 240 V  | 150 kA   |
| • at 415 V  | 70 kA  |
| ● at 690 V  | 10 kA  |
| breaking capacity operating short-circuit current (Ics)                                 |  |
| • at 240 V  | 150 kA   |
| • at 415 V  | 70 kA  |
| • at 690 V  | 5 kA   |
| short-circuit current making capacity (Icm)   |  |
| • at 240 V  | 330 kA   |
| ● at 415 V  | 154 kA   |
| • at 690 V  | 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   |  |
| Ground fault protection / tripping switchable / I2t=ON/OFF                              | No   |
| Mechanical Design   |  |
| 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-section, connection screw, width x thickness , min. | 12 x 1 mm  |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 17 x 6.5 mm  |
| Auxiliary circuit   |  |
| product component   |  |
| undervoltage release  | No   |
| voltage trigger   | No   |
| trip indicator  | No   |
| 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   |  |
| during operation / minimum  | -25 °C   |
| during operation / maximum  | 70 °C  |
| during storage / minimum  | -40 °C   |
| during storage / maximum  | 80 °C  |
| Certificates  |  |
| reference code / according to IEC 81346-2   | Q  |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  | Yes  |
| General Product Approval EMC  | Marine / Shipping other  |
|   |  |







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=3VA5140-1MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5140-1MH32-0AA0

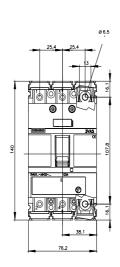
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5140-1MH32-0AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5140-1MH32-0AA0</a>

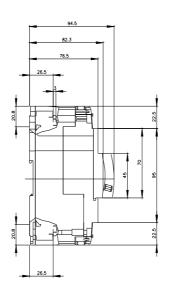
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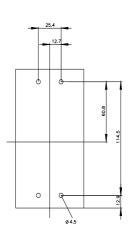
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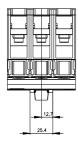
**Tender specifications** 

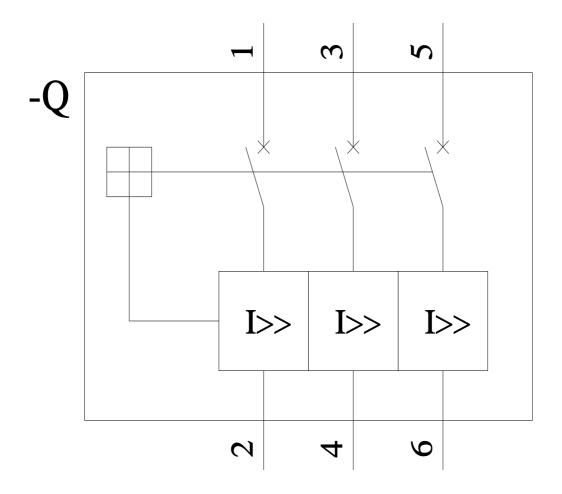
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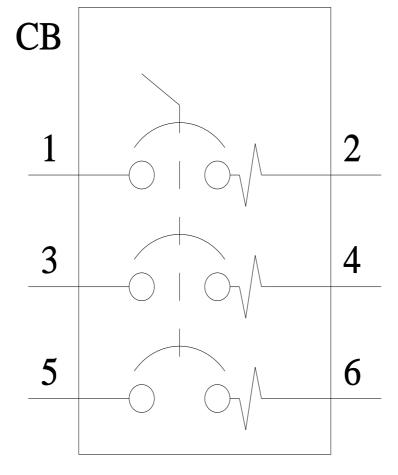












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