3VA5212-5EC32-1AA0

## **Data sheet**



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=125A overload protection Ir=125A fixed short-circuit protection Ii=5...10 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

| Model  |                             |
|--|-----------------------------|
| product brand name   | SENTRON                     |
| product designation  | Molded-case circuit breaker |
| product designation / according to UL file   | MFAM                        |
| Product version  | System 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  | TM230                       |
| protection function of the overcurrent release   | LI                          |
| number of poles  | 3                           |
| General technical data   |                             |
| operating voltage / at AC / rated value  | 690 V                       |
| power loss [W] / maximum   | 23 W                        |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                                   | 7.53 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                          |
| other measurement function   | No                          |
| Net Weight   | 2.192 kg                    |
| Current  |                             |
| marking / according to UL 489 / 100%-rated breaker   | No                          |
| operational current  |                             |
| ● at 40 °C   | 125 A                       |
| ● at 45 °C   | 121 A                       |
| ● at 50 °C   | 116 A                       |
| ● at 55 °C   | 112 A                       |
| ● at 60 °C   | 108 A                       |

| during storage / minimum     during storage / maximum      Certificates  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  General Product Approval | Yes  EMC Declaration of Conformity   |
|---|--|
| during storage / minimum     during storage / maximum  Certificates  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB                               |  |
| during storage / minimum     during storage / maximum  Certificates   |  |
| during storage / minimum     during storage / maximum   | 80 °C  |
| during storage / minimum  | 80 °C  |
|   |  |
| - Garria Operation / maximum  | -40 °C   |
| during operation / maximum  | 70 °C  |
| during operation / minimum  | -25 °C   |
| ambient temperature   |  |
| protection class IP / on the front  | IP40   |
| Environmental conditions  |  |
| product extension / optional / motor drive  | Yes  |
| Accessories   |  |
| number of CO contacts / for auxiliary contacts  | 0  |
| trip indicator  | No   |
| voltage trigger   | No   |
| undervoltage release  | No   |
| product component   |  |
| Auxiliary circuit   |  |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)   | silver   |
| screw, width x thickness , max.   |  |
| screw, width x thickness , min.  Type of connectable conductor cross-section, connection  | 25 x 8 mm  |
| Type of connectable conductor cross-section, connection   | 13 x 1 mm  |
| type of electrical connection / for main current circuit  | nut keeper kit on both ends  |
| arrangement of electrical connectors / for main current circuit   | Front connection   |
| Connections   |  |
| depth   | 83 mm  |
| depth [in]  | 3.27 in  |
| Width   | 105 mm   |
| width [in]  | 4.13 in  |
| Height  | 185 mm   |
| height [in]   | 7.28 in  |
| Mechanical Design   |  |
| Ground fault protection / tripping switchable / I2t=ON/OFF  | No   |
| Adjustable response value current / lg min.   | 125 A  |
| Adjustable response value current / lg min.   | 125 A  |
| Adjustable parameters   |  |
| ● at 600 V  | 18 kA  |
| ● at 480 V  | 35 kA  |
| • at 240 V  | 85 kA  |
| breaking capacity current   |  |
| Switching capacity according to UL 489  |  |
| addig or orion allown procession  | circuit breaker device manual; link to be found under Service & Suppoin the last chapter |
| design of short-circuit protection  | For switching power values in DC networks, see the 3VA molded cas                        |
| switching capacity class of the circuit breaker   | M  |
| Switching capacity according to IEC 60947   |  |
| • at 70 °C  | 99 A   |
| ● at 65 °C  | 103 A  |

Confirmation











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=3VA5212-5EC32-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5212-5EC32-1AA0

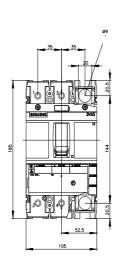
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5212-5EC32-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5212-5EC32-1AA0</a>

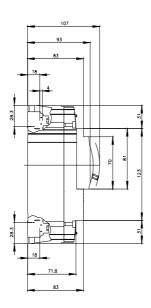
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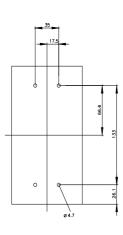
http://www.siemens.com/cax

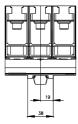
**Tender specifications** 

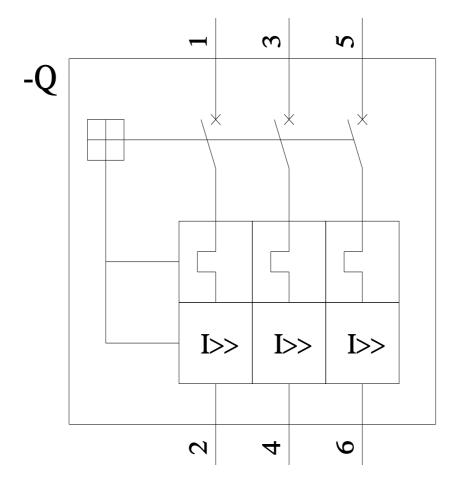
http://www.siemens.com/specifications

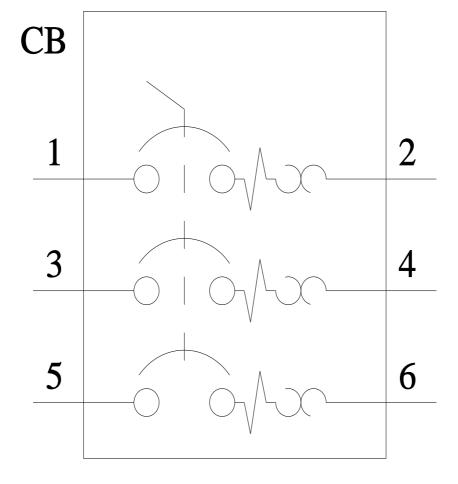












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