3VA1450-5MH32-0AA0

Data sheet



circuit breaker 3VA1 IEC frame 630 breaking capacity class M Icu=55kA @ 415V 3-pole, starter protection TM120M, AM, In=500A without overload protection short-circuit protection Ii=8...16 x In nut keeper kit

| Model | | |
|--|-----------------------------|--|
| product brand name | SENTRON | |
| product designation | Molded case circuit breaker | |
| Product version | Starter protection | |
| design of the overcurrent release | TM120M | |
| protection function of the overcurrent release | I | |
| number of poles | 3 | |
| General technical data | | |
| rated insulation voltage Ui | 800 V | |
| power loss [W] / maximum | 122.7 W | |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 40.9 W | |
| mechanical service life (switching cycles) / typical | 20 000 | |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 4 000 | |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 3 000 | |
| Neutral conductors / upgradeable/retrofittable | No | |
| ground-fault monitoring version | Without | |
| product function | | |
| communication function | No | |
| phase failure detection | No | |
| other measurement function | No | |
| net weight | 3.9 kg | |
| Current | | |
| Max. rated operational current of the frame size | 630 A | |
| Courant permanent assigné lu | 500 A | |
| operational current | | |
| • at 40 °C | 500 A | |
| ● at 45 °C | 500 A | |
| ● at 50 °C | 500 A | |
| ● at 55 °C | 488 A | |
| ● at 60 °C | 476 A | |
| ● at 65 °C | 464 A | |
| ● at 70 °C | 452 A | |
| Switching capacity according to IEC 60947 | | |
| switching capacity class of the circuit breaker | M | |
| breaking capacity maximum short-circuit current (Icu) | | |

| ● at 240 V | 85 kA | | |
|---|-----------------------------|-----|------------------------------|
| | | | |
| ● at 415 V | 55 kA | | |
| • at 440 V | 55 kA | | |
| ● at 500 V | 36 kA | | |
| ● at 690 V | 7 kA | | |
| breaking capacity operating short-circuit current (Ics) | | | |
| • at 240 V | 85 kA | | |
| ● at 415 V | 55 kA | | |
| • at 440 V | 55 kA | | |
| ● at 500 V | 36 kA | | |
| ● at 690 V | 5 kA | | |
| short-circuit current making capacity (Icm) | - | | |
| ● at 240 V | 187 kA | | |
| • at 415 V | 121 kA | | |
| • at 440 V | 121 kA | | |
| • at 500 V | 75.6 kA | | |
| • at 690 V | 11.9 kA | | |
| Adjustable parameters | 11.0 10 1 | | |
| | 2 500 A | | |
| Adjustable response value current / li min. | _ | | |
| Adjustable response value current / li max. | 5 000 A | | |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No | | |
| Mechanical Design | | | |
| height [in] | 9.76 in | | |
| Height | 248 mm | | |
| width [in] | 5.43 in | | |
| Width | 138 mm | | |
| depth [in] | 4.33 in | | |
| depth | 110 mm | | |
| Connections | | | |
| arrangement of electrical connectors / for main current circuit | Front terminal | | |
| 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. | 20 x 1 mm | | |
| Type of connectable conductor cross-section, connection screw, width x thickness, max. | 35 x 10 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 | | | |
| during operation / minimum | -25 °C | | |
| during operation / maximum | 70 °C | | |
| during operation/ maximum during storage / minimum | -40 °C | | |
| during storage / maximum | 80 °C | | |
| | | | |
| Certificates | 0 | | |
| reference code / acc. to IEC 81346-2 | Q | | |
| General Product Approval | | EMC | Declaration of Conformity |





Miscellaneous







Declaration of Conformity

Test Certificates

Marine / Shipping other

UK Declaration of Conformity <u>Miscellaneous</u> <u>Special Test Certificate</u>





Confirmation

other

Miscellaneous Miscellaneous

Further information

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=3VA1450-5MH32-0AA0

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3VA1450-5MH32-0AA0

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

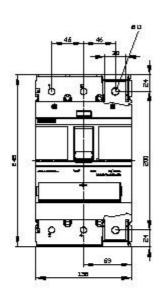
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1450-5MH32-0AA0

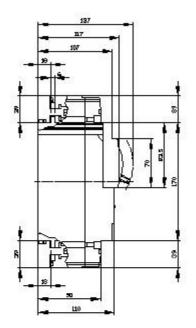
CAx-Online-Generator

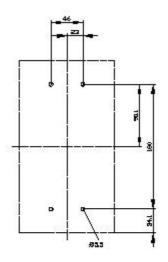
http://www.siemens.com/cax

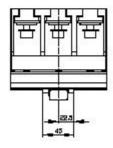
Tender specifications

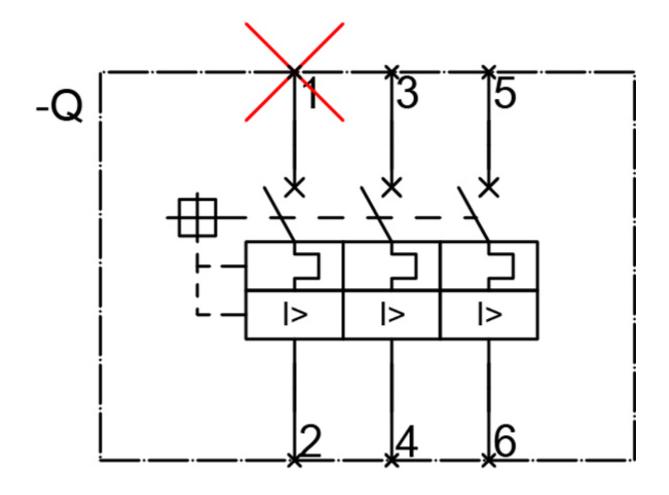
http://www.siemens.com/specifications











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