SIEMENS

Data sheet



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM220, ATFM, In=50A overload protection Ir=35A...50A short-circuit protection Ii=10 x In nut keeper kit

| Model | |
|------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded case circuit breaker |
| Product version | Line protection |
| design of the overcurrent release | TM220 |
| protection function of the overcurrent release | LI |
| number of poles | 3 |
| General technical data | |
| rated insulation voltage Ui | 800 V |
| Max. rated operational voltage Ue with AC 50/60Hz | 500 V |
| Max. rated operational voltage Ue with DC | 500 V |
| operating voltage / at AC / rated value | 690 V |
| power loss [W] / maximum | 15 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 4.87 W |
| mechanical service life (switching cycles) / typical | 15 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 6 000 |
| Neutral conductors / upgradeable/retrofittable | No |
| ground-fault monitoring version | Without |
| product function | |
| communication function | No |
| other measurement function | No |
| Net Weight | 963 g |
| Current | |
| operational current | |
| • at 40 °C | 50 A |
| • at 45 °C | 50 A |
| • at 50 °C | 50 A |
| • at 55 °C | 49 A |
| • at 60 °C | 48 A |
| • at 65 °C | 46 A |
| ● at 70 °C | 45 A |
| Switching capacity according to IEC 60947 | |
| switching capacity class of the circuit breaker | N |
| breaking capacity maximum short-circuit current (Icu) | |
| • at 240 V | 36 kA |
| • at 415 V | 25 kA |
| • at 440 V | 16 kA |
| • at 500 V | 7 kA |

| breaking capacity operating short-circuit current (lcs) | | |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| • at 240 V | 27 kA | |
| • at 415 V | 18 kA | |
| • at 440 V | 12 kA | |
| • at 500 V | 5 kA | |
| short-circuit current making capacity (Icm) | | |
| • at 240 V | 76 kA | |
| • at 415 V | 53 kA | |
| • at 440 V | 32 kA | |
| • at 500 V | 12 kA | |
| design of short-circuit protection | For switching capacity values in DC power systems, see the 3VA Molded Case Circuit Breaker Manual; link available under Service Support in the last chapter | |
| djustable parameters | | |
| Adjustable response value current / li max. | 500 A | |
| Ground fault protection / tripping switchable / I2t=ON/OFF | No | |
| lechanical Design | | |
| height [in] | 5.12 in | |
| Height | 130 mm | |
| width [in] | 3 in | |
| Width | 76.2 mm | |
| depth [in] | 2.76 in | |
| depth | 70 mm | |
| onnections | | |
| arrangement of electrical connectors / for main current circuit | Front connection | |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) | Silver | |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | Tin | |
| uxiliary circuit | | |
| product component | | |
| undervoltage release | No | |
| voltage trigger | No | |
| trip indicator | No | |
| number of CO contacts / for auxiliary contacts | 0 | |
| ccessories | | |
| product extension / optional / motor drive | No | |
| invironmental 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 | |
| | | |
| | | |
| reference code / according to IEC 81346-2 | Q | |

Confirmation





Miscellaneous





| Declaration | of |
|--------------------|----|
| Conformity | |

Test Certificates

Marine / Shipping











other

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=3VM1150-3EE32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1150-3EE32-0AA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1150-3EE32-0AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

last modified: 6/3/2022 🖸



