## **SIEMENS**

## **Data sheet**

## 3VM1116-3ED22-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 2-pole, line protection TM210, FTFM, In=160A overload protection Ir=160A, not adjustable short-circuit protection Ii=10 x In nut keeper kit

| Model   |                             |
|---|-----------------------------|
| product brand name  | SENTRON                     |
| product designation   | Molded case circuit breaker |
| design of the product   | Line protection             |
| design of the overcurrent release   | TM210                       |
| protection function of the overcurrent release  | LI                          |
| number of poles   | 2                           |
| General technical data  |                             |
| insulation voltage / rated value  | 500 V                       |
| operating voltage / at AC / at 50/60 Hz / rated value   | 415 V                       |
| operating voltage / at DC / rated value   | 250 V                       |
| operating voltage / at AC / rated value   | 415 V                       |
| power loss [W] / maximum  | 25 W                        |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole               | 12.65 W                     |
| mechanical service life (operating cycles) / typical  | 15 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V  | 6 000                       |
| product feature / for neutral conductors /<br>upgradable/retrofittable / short-circuit and overload proof | No                          |
| ground-fault monitoring version   | Without                     |
| product function  |                             |
| <ul> <li>communication function</li> </ul>  | No                          |
| <ul> <li>other measurement function</li> </ul>  | No                          |
| Net Weight  | 713 g                       |
| Current   |                             |
| operational current   |                             |
| ● at 40 °C  | 160 A                       |
| ● at 45 °C  | 160 A                       |
| • at 50 °C  | 160 A                       |
| • at 55 °C  | 158 A                       |
| • at 60 °C  | 155 A                       |
| • at 65 °C  | 153 A                       |
| ● at 70 °C  | 150 A                       |
| Switching capacity according to IEC 60947   |                             |
| switching capacity class of the circuit breaker   | N                           |
| maximum short-circuit current breaking capacity (Icu)   |                             |
| • at 240 V  | 36 kA                       |
| • at 415 V  | 25 kA                       |
| operating short-circuit current breaking capacity (lcs)   |                             |
| • at 240 V  | 27 kA                       |
| ● at 415 V  | 18 kA                       |

short-circuit current making capacity (Icm) 76 kA • at 240 V • at 415 V 53 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 Adjustable parameters product feature / for L-tripping / can be switched on/off No adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic 160 A maximum 160 A adjustable response value delay time (tr) / for L-tripping / with I2t characteristic minimum 1 s • maximum 1 s adjustable current response value current / of instantaneous short-circuit trip unit 1600 A product function / grounding protection No Mechanical Design product component • undervoltage release No voltage trigger No trip indicator No height [in] 5 12 in height 130 mm width [in] 2 in width 50.8 mm 2.76 in depth [in] depth 70 mm arrangement of electrical connectors / for main current Front connection circuit nut keeper kit on both ends type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar 12 x 1 mm terminal connection / minimum type of connectable conductor cross-sections / for flat-bar 17 x 6.5 mm terminal connection / maximum design of the surface / of the connections / on the top of Silver the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom Tin of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts 0 product extension / optional / motor drive No **Environmental conditions** protection class IP / on the front IP40 ambient temperature -25 °C • during operation / minimum 70 °C • during operation / maximum • during storage / minimum -40 °C 80 °C • during storage / maximum Certificates reference code / according to IEC 81346-2 Q **Declaration of General Product Approval** Conformity Confirmation **Miscellaneous** 

Declaration of Conformity

**Test Certificates** 

Marine / Shipping



**Miscellaneous** 









other Environment

Miscellaneous Confirmation Environmental Confirmations

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3VM1116-3ED22-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1116-3ED22-0AA0

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

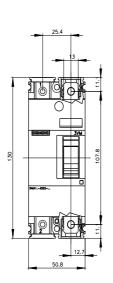
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VM1116-3ED22-0AA0

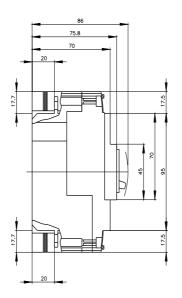
**CAx-Online-Generator** 

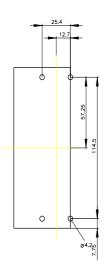
http://www.siemens.com/cax

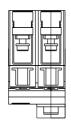
**Tender specifications** 

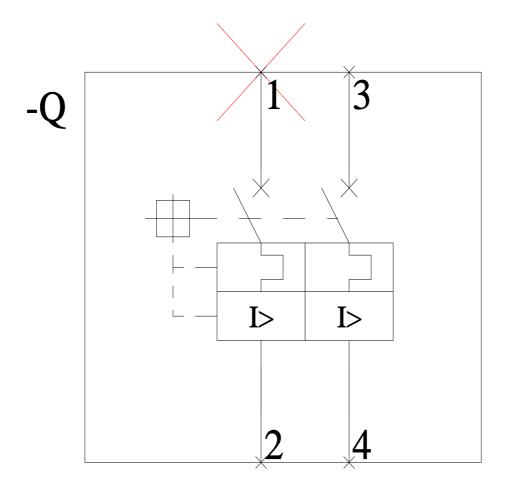
http://www.siemens.com/specifications











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