SIEMENS

Data sheet

3VM1150-4ED22-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 2-pole, line protection TM210, FTFM, In=50A overload protection Ir=50A, 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	10 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4.85 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 / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
 communication function 	No
 other measurement function 	No
Net Weight	650 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	S
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	41 kA
● at 415 V	27 kA

short-circuit current making capacity (Icm) 121 kA • at 240 V • at 415 V 76 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 50 A maximum 50 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 500 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

Confirmation Miscellaneous 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=3VM1150-4ED22-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1150-4ED22-0AA0

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

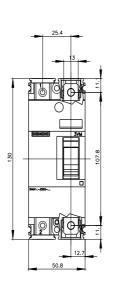
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1150-4ED22-0AA0

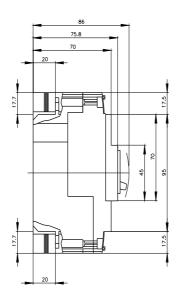
CAx-Online-Generator

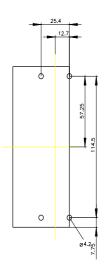
http://www.siemens.com/cax

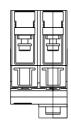
Tender specifications

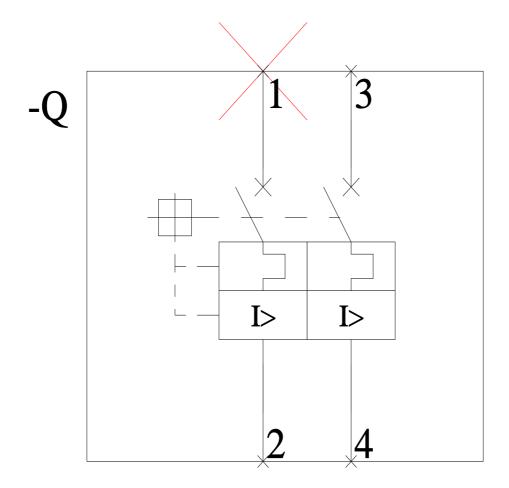
http://www.siemens.com/specifications











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