SIEMENS

Data sheet

3VA1010-2ED32-0AA0



Circuit breaker 3VA1 IEC Frame 100 Switching capacity class B Icu=16 kA @ 415 V 3-pole, system protection TM210, FTFM, In=100 A Overload protection Ir=100 A non-adjustable short-circuit protection Ii = 10 x In Lug terminal

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	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	25 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	8.33 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	9 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	6 300
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	942 g
Current	
continuous current / rated value / maximum	100 A
continuous current / rated value	100 A
operational current	
● at 40 °C	100 A
● at 45 °C	100 A
● at 50 °C	100 A
● at 55 °C	98 A
• at 60 °C	96 A
● at 65 °C	94 A
● at 70 °C	91 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	В
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	25 kA
● at 415 V	16 kA
● at 440 V	8 kA

● at 500 V	5 kA
• at 690 V	5 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	25 kA
• at 415 V	16 kA
● at 440 V	8 kA
● at 500 V	5 kA
● at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	52.5 kA
• at 415 V	32 kA
• at 440 V	13.6 kA
• at 500 V	7.5 kA
• at 690 V	7.5 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found 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	400.1
• minimum	100 A
• maximum	100 A
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic	
minimum	1s
maximum	1s
adjustable response value setting current (li) / for l-tripping	
• minimum	1 000 A
• maximum	1 000 A
adjustable absolute value setting current (InN) / for N-	
tripping	
• minimum	0 A
maximum	0 A
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No No
trip indicator beight [in]	No 5.12 in
height [in]	130 mm
height	3 in
width [in] width	76.2 mm
depth [in]	2.76 in
depth	70 mm
Connections	
arrangement of electrical connectors / for main current	Front terminal
circuit	
type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	nut keeper kit on both ends 12 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6,5 mm
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
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	No
Environmental conditions	
protection class IP / on the front	IP40
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ambient temperature

• during operation / minimum

• during operation / maximum

• during storage / minimum

• during storage / maximum

General Product Approval

-25 °C

70 °C

-40 °C 80 °C

Certificates

reference code / according to IEC 81346-2

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EMC



Confirmation



Miscellaneous





Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Miscellaneous

Special Test Certificate



Marine / Shipping

other







CCS / China Classification Society **Miscellaneous**

Confirmation

other

Environment

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=3VA1010-2ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1010-2ED32-0AA0

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

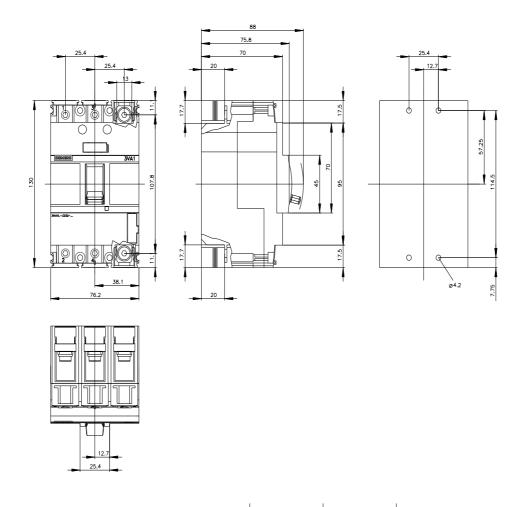
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1010-2ED32-0AA0

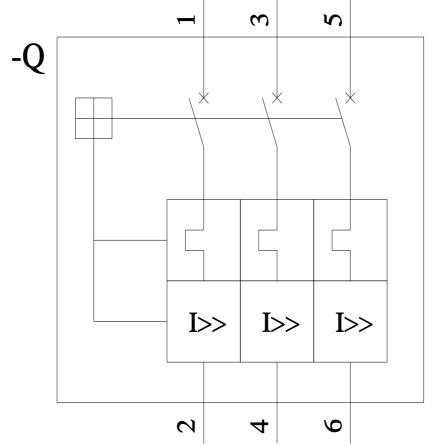
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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