SIEMENS

Data sheet



circuit breaker 3VA1 IEC frame 100 breaking capacity class B Icu=16kA @ 415V 3-pole, line protection TM210, FTFM, In=32A overload protection Ir=32A fixed 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	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	10.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.53 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	955 g
Current	
operational current	
• at 40 °C	32 A
• at 45 °C	32 A
• at 50 °C	32 A
● at 55 °C	31 A
• at 60 °C	31 A
• at 65 °C	30 A
• at 70 °C	30 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)	E2 E kA
at 240 V at 415 V	52.5 kA 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	
• minimum	32 A
maximum	32 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1s
adjustable response value setting current (li) / for I-tripping	
• minimum	320 A
maximum	320 A
adjustable 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
trip indicator	No
height [in]	5.12 in
height	130 mm
width [in]	3 in
width	76.2 mm
depth [in]	2.76 in
depth	70 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-sections / for flat-bar terminal connection / minimum	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	
ruxinary on out	
number of CO contacts / for auxiliary contacts	0
number of CO contacts / for auxiliary contacts Accessories	
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive	0 No
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions	No
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front	
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature	No IP40
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front	No



-40 °C • during storage / minimum 80 °C • during storage / maximum Environmental footprint Environmental Product Declaration(EPD) Yes Global Warming Potential [CO2 eq] / total 190 kg Global Warming Potential [CO2 eq] / during manufacturing 4.67 kg Global Warming Potential [CO2 eq] / during operation 186 kg global warming potential [CO2 eq] / after end of life -0.826 kg reference code / according to IEC 81346-2 Q Approvals / Certificates

EMC General Product Approval



Confirmation



Miscellaneous





Declaration of Conformity

Test Certificates

Marine / Shipping





Miscellaneous

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping

other









CCS / China Classification Society

Confirmation

other

Environment

Miscellaneous

Miscellaneous

Environmental Confirmations

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=3VA1032-2ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1032-2ED32-0AA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1032-2ED32-0AA0

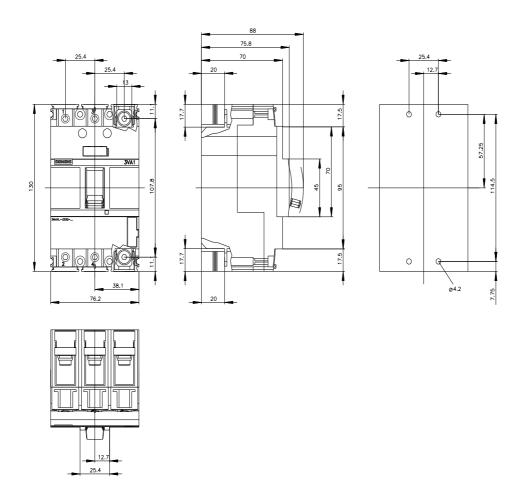
CAx-Online-Generator

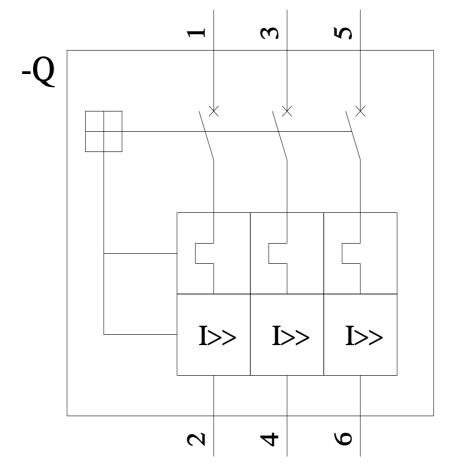
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







last modified: 11/3/2023 🖸



