3VA1116-3EE42-0AA0

Data sheet



circuit breaker 3VA1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 4-pole, line protection TM220, ATFM, In=160A overload protection Ir=112A...160A short-circuit protection Ii=10 x In N conductor unprotected nut keeper kit

	CENTRON
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	TM220
protection function of the overcurrent release	Ц
number of poles	4
eneral technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	38 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	1.289 kg
urrent	
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
witching 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
• at 440 V	16 kA
• at 500 V	7 kA

• at 240 V	36 kA
• at 415 V	25 kA
• at 440 V	16 kA
● at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
● at 240 V	75.6 kA
• at 415 V	52.5 kA
● at 440 V	32 kA
● at 500 V	11.9 kA
● at 690 V	11.9 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	112 A
• maximum	160 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	4 000 A
• minimum	1 600 A
• maximum	1 600 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
design of the N-conductor protection	without
product function / grounding protection	No
Mechanical Design	
Mechanical Design product component	No
Mechanical Design product component • undervoltage release	No No
Mechanical Design product component • undervoltage release • voltage trigger	No
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator	No No
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in]	No No 5.12 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height	No No 5.12 in 130 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in]	No No 5.12 in 130 mm 4 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in]	No No 5.12 in 130 mm 4 in 101.6 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in]	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in] depth	No No 5.12 in 130 mm 4 in 101.6 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in] depth Connections	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit	No No S.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm
Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit	No No S.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends
mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	No No S.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm
product component	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm
product component	No No S.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver
product component	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm
product component	No No S.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver Tin
product component	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver
product component	No No S.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver Tin
product component	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver Tin
product component	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver Tin
product component	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver Tin
product component	No No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver Tin
product component	No 5.12 in 130 mm 4 in 101.6 mm 2.76 in 70 mm Front terminal nut keeper kit on both ends 12 x 1 mm 17 x 6,5 mm Silver Tin 0 Yes

during storage / minimumduring storage / maximum

-40 °C 80 °C

Cortificator

reference code / according to IEC 81346-2

Q

General Product Approval

EMC



Confirmation



Miscellaneous





Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report

Miscellaneous



Marine / Shipping









CCS / China Classification Society

Confirmation

Miscellaneous

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=3VA1116-3EE42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1116-3EE42-0AA0

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

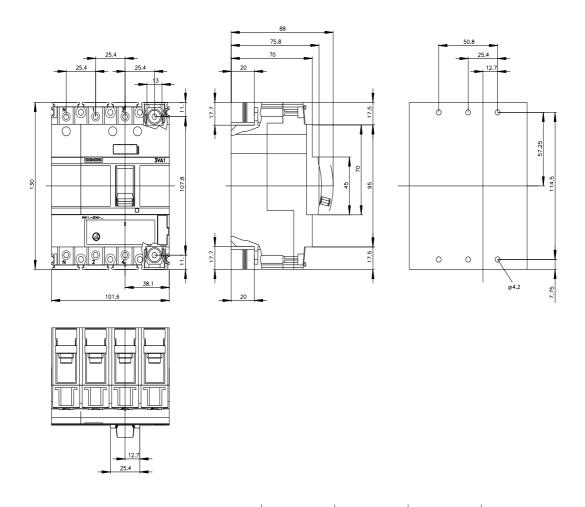
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1116-3EE42-0AA0

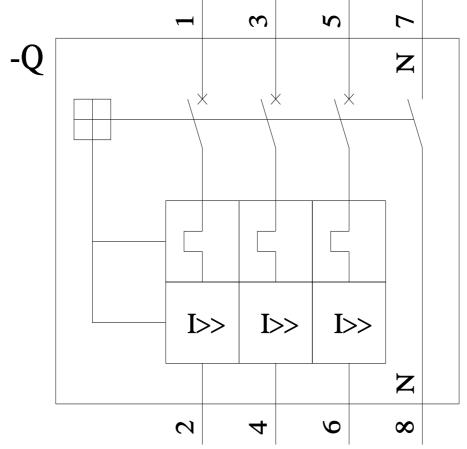
CAx-Online-Generator

http://www.siemens.com/cax

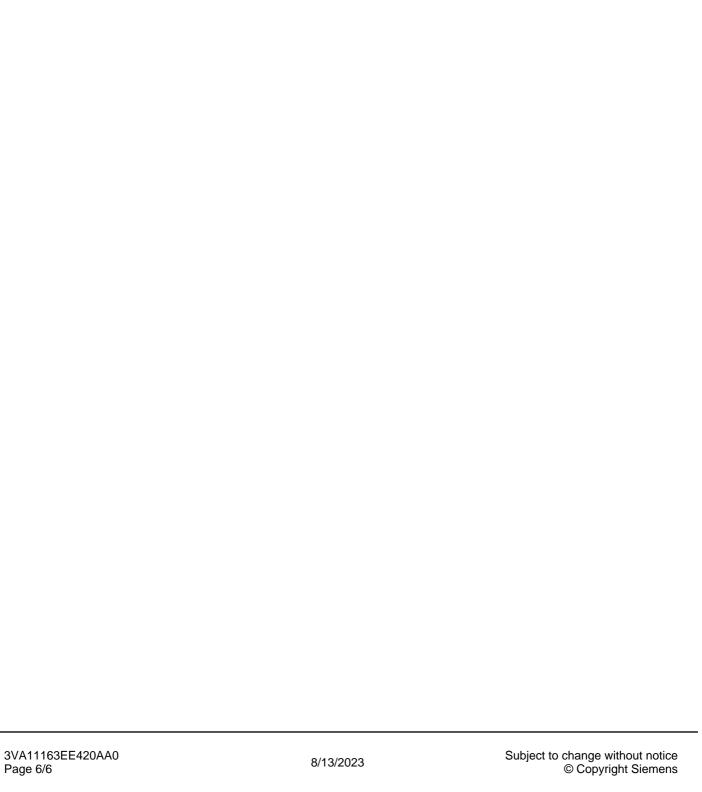
Tender specifications

http://www.siemens.com/specifications





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