

circuit breaker 3VA2 IEC frame 250 breaking capacity class C
 $I_{cu}=110\text{kA}$ @ 415V 3-pole, starter protection ETU310M, I, $I_n=200\text{A}$
 overload protection $I_r=80\text{A}\dots200\text{A}$ short-circuit protection $I_i=3\dots15 \times$
 I_n nut keeper kit 1 auxiliary switch HQ 1 trip alarm switch HQ



Model	
Product brand name	SENTRON
Product designation	Molded case circuit breaker
Product version	Starter protection
Design of the overcurrent release	ETU310M
Protective function of the overcurrent release	I
Number of poles	3
Design of the auxiliary release	Without auxiliary release
Auxiliary contact version	1 auxiliary switch + 1 trip alarm switch HQ
General technical data	
Rated insulation voltage U_i	800 V
Max. rated operational voltage U_e with AC 50/60Hz	690 V
Operating power / at AC-3 / at 400 V	75 W
Power loss [W] / maximum	75 W
Latching - endurance	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	10 000
Neutral conductors / upgradeable/retrofitable	No
Ground fault monitoring version	Without

Product function	
<ul style="list-style-type: none"> • communication function 	No
<ul style="list-style-type: none"> • Phase failure detection 	No
<ul style="list-style-type: none"> • other measurement function 	No
Net weight	2.4 kg

Current

Max. rated operational current of the frame size	250 A
Rated continuous current I _u	200 A
Operating current	
<ul style="list-style-type: none"> • at 40 °C 	200 A
<ul style="list-style-type: none"> • at 45 °C 	200 A
<ul style="list-style-type: none"> • at 50 °C 	200 A
<ul style="list-style-type: none"> • at 55 °C 	192 A
<ul style="list-style-type: none"> • at 60 °C 	188 A
<ul style="list-style-type: none"> • at 65 °C 	184 A
<ul style="list-style-type: none"> • at 70 °C 	180 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	C
Maximum short-circuit current breaking capacity (I _{cu})	
<ul style="list-style-type: none"> • at 240 V 	150 kA
<ul style="list-style-type: none"> • at 415 V 	110 kA
<ul style="list-style-type: none"> • at 440 V 	110 kA
<ul style="list-style-type: none"> • at 500 V 	85 kA
<ul style="list-style-type: none"> • at 690 V 	25 kA
Operational short-circuit current breaking capacity (I _{cs})	
<ul style="list-style-type: none"> • at 240 V 	150 kA
<ul style="list-style-type: none"> • at 415 V 	110 kA
<ul style="list-style-type: none"> • at 440 V 	110 kA
<ul style="list-style-type: none"> • at 500 V 	85 kA
<ul style="list-style-type: none"> • at 690 V 	25 kA
Short-circuit current making capacity (I _{cm})	
<ul style="list-style-type: none"> • at 240 V 	330 kA
<ul style="list-style-type: none"> • at 415 V 	242 kA
<ul style="list-style-type: none"> • at 440 V 	242 kA
<ul style="list-style-type: none"> • at 500 V 	187 kA
<ul style="list-style-type: none"> • at 690 V 	52.5 kA

Adjustable parameters

Adjustable response value current / I _r min.	0 A
Adjustable response value current / I _r max.	0 A

Short-term delayed / tripping switchable / I _{2t} =ON/OFF	No
Adjustable response value current / I _i min.	600 A
Adjustable response value current / I _i max.	3 000 A

Mechanical Design

Height	181 mm
Width	105 mm
Depth	86 mm

Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	Lug terminal

Auxiliary circuit

Product component	
<ul style="list-style-type: none"> • undervoltage release • Voltage trigger • undervoltage release with leading contact • Trip indicator 	<ul style="list-style-type: none"> No No No Yes
Number of CO contacts / for auxiliary contacts	2

Accessories

Product extension / optional / motor drive	Yes
Manufacturer's article number	
<ul style="list-style-type: none"> • of the supplied basic switch • of the integrated auxiliary switch/alarm switch • of the integrated auxiliary switch/alarm switch • of the integrated auxiliary trip 	<ul style="list-style-type: none"> 3VA2220-7MS32-0AA0 3VA9988-0AA12 3VA9988-0AB12 3VA9608-0BB24

Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	<ul style="list-style-type: none"> -25 °C 70 °C -40 °C 80 °C

Certificates

Reference code / acc. to DIN EN 81346-2	Q
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General Product Approval	EMC	Declaration of Conformity
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CCC



VDE

[Miscellaneous](#)



RCM



EG-Konf.

Test Certificates	Shipping Approval	other
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[Miscellaneous](#)

[Special Test Certificate](#)



LRS

[CCS / China Classification Society](#)

[Confirmation](#)

[Manufacturer Declaration](#)

other

[Miscellaneous](#)

Further information

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=3VA2220-7MS32-0AF0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2220-7MS32-0AF0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2220-7MS32-0AF0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





Siemens

3VA2xxx-xMS3x-C

Format / Size: Hybrid

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