

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 undervoltage release (UVR) 24V DC 2 auxiliary
 switches HQ 1 trip alarm switch HQ 1 electrical alarm switch



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	Undervoltage release (UVR)
Auxiliary contact version	2 auxiliary switches + 1 trip alarm switch + 1 electrical 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	2.284 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 	Yes
<ul style="list-style-type: none"> • Voltage trigger 	No
<ul style="list-style-type: none"> • undervoltage release with leading contact 	No
<ul style="list-style-type: none"> • Trip indicator 	Yes
Number of CO contacts / for auxiliary contacts	4

Accessories

Product extension / optional / motor drive	Yes
Manufacturer's article number	
<ul style="list-style-type: none"> • of the supplied basic switch 	3VA2220-7MS32-0AA0
<ul style="list-style-type: none"> • of the integrated auxiliary switch/alarm switch 	3VA9988-0AA12
<ul style="list-style-type: none"> • of the integrated auxiliary switch/alarm switch 	3VA9988-0AB12
<ul style="list-style-type: none"> • of the integrated auxiliary switch/alarm switch 	3VA9988-0AB22
<ul style="list-style-type: none"> • of the integrated auxiliary trip 	3VA9608-0BB11

Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
<ul style="list-style-type: none"> • during operation / minimum 	-25 °C
<ul style="list-style-type: none"> • during operation / maximum 	70 °C
<ul style="list-style-type: none"> • during storage / minimum 	-40 °C
<ul style="list-style-type: none"> • during storage / maximum 	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=3VA2220-7MS32-0BL0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2220-7MS32-0BL0>

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

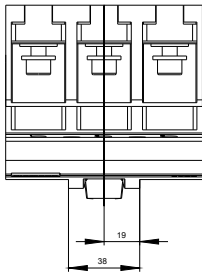
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2220-7MS32-0BL0

CAX-Online-Generator

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

Tender specifications

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



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