

circuit breaker 3VA2 IEC frame 250 breaking capacity class C
 $I_{cu}=110\text{kA}$ @ 415V 3-pole, motor protection ETU350M, LSI, $I_n=200\text{A}$
 overload protection $I_r=80\text{A}\dots200\text{A}$ short-circuit protection $I_{sd}=3\dots15 \times I_r$, $I_i=15 \times I_n$ nut keeper kit undervoltage release (UVR) 208-230V AC
 50/60Hz 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	Motor protection
Design of the overcurrent release	ETU350M
Protective function of the overcurrent release	LSI
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	
• communication function	No
• Phase failure detection	Yes
• 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	
• at 40 °C	200 A
• at 45 °C	200 A
• at 50 °C	200 A
• at 55 °C	192 A
• at 60 °C	188 A
• at 65 °C	184 A
• 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})	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	25 kA
Operational short-circuit current breaking capacity (I _{cs})	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	25 kA
Short-circuit current making capacity (I _{cm})	
• at 240 V	330 kA
• at 415 V	242 kA
• at 440 V	242 kA
• at 500 V	187 kA
• at 690 V	52.5 kA

Adjustable parameters

Adjustable response value current / I _r min.	80 A
Adjustable response value current / I _r max.	200 A

Adjustable response value time / tr min.	4
Adjustable response value time / tr max.	15
Adjustable response value current / Isd min.	600 A
Adjustable response value current / Isd max.	3 000 A
Short-term delayed / tripping switchable / I2t=ON/OFF	No
Adjustable response value time / tsd min.	0.03 s
Adjustable response value time / tsd max.	0.03 s
Adjustable response value current / li min.	3 000 A
Adjustable response value current / li 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 	3VA2220-7MN32-0AA0
<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 	3VA9608-0BB25

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

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General Product Approval EMC



CCC



VDE

CB

CB

[Miscellaneous](#)

EAC



RCM

Declaration of Conformity other



EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)



LRS

[CCS / China Classification Society](#)

[Confirmation](#)

other

[Manufacturer Declaration](#)

[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=3VA2220-7MN32-0DL0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2220-7MN32-0DL0>

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

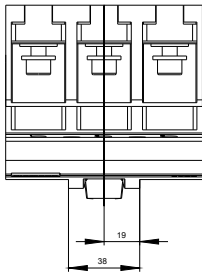
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2220-7MN32-0DL0

CAX-Online-Generator

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

Tender specifications

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



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09/13/2019