



circuit breaker 3VA2 IEC frame 250 breaking capacity class M $I_{cu}=55\text{kA}$ @ 415V 3-pole, line protection ETU320, LI, $I_n=250\text{A}$ overload protection $I_r=100\text{A}\dots250\text{A}$ short-circuit protection $I_i=1.5\dots10 \times I_n$ nut keeper kit undervoltage release (UVR) 24V DC 2 auxiliary switches HQ

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	Line protection
design of the overcurrent release	ETU320
protection function of the overcurrent release	LI
number of poles	3
Auxiliary contact version	2 auxiliary switches HQ
General technical data	
rated insulation voltage U_i	800 V
power loss [W] / maximum	50.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	16.83 W
mechanical service life (switching cycles) / typical	25 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 400
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Net Weight	2,57 kg
Current	
Max. rated operational current of the frame size	250 A
Courant permanent assigné I_u	250 A
operational current	
• at 40 °C	250 A
• at 45 °C	250 A
• at 50 °C	250 A
• at 55 °C	241 A
• at 60 °C	232 A
• at 65 °C	222 A
• at 70 °C	213 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (I_{cu})	
• at 240 V	85 kA
• at 415 V	55 kA

• at 440 V • at 500 V • at 690 V	55 kA 36 kA 3 kA		
breaking capacity operating short-circuit current (Ics) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	85 kA 55 kA 55 kA 36 kA 3 kA		
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	187 kA 121 kA 121 kA 75.6 kA 4.5 kA		
Adjustable parameters			
Adjustable response value current / li min.	375 A		
Adjustable response value current / li max.	2 500 A		
Ground fault protection / tripping switchable / I2t=ON/OFF	No		
Mechanical Design			
height [in]	7.13 in		
Height	181 mm		
width [in]	4.13 in		
Width	105 mm		
depth [in]	3.39 in		
depth	86 mm		
Connections			
arrangement of electrical connectors / for main current circuit	Front terminal		
type of electrical connection / for main current circuit	on both sides nut keeper kit		
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm		
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8 mm		
Auxiliary circuit			
product component • undervoltage release • voltage trigger • undervoltage release with leading contact • trip indicator	Yes No No No		
number of CO contacts / for auxiliary contacts	2		
Accessories			
product extension / optional / motor drive	Yes		
manufacturer's article number • of the supplied basic switch • of the integrated auxiliary switch/alarm switch • of the integrated auxiliary trip unit	3VA2225-5HL32-0AA0 3VA9988-0AA12 3VA9608-0BB11		
Environmental conditions			
protection class IP / on the front	IP40		
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C 70 °C -40 °C 80 °C		
Certificates			
reference code / acc. to IEC 81346-2	Q		
General Product Approval		EMC	Declaration of Conformity



[Miscellaneous](#)



EG-Konf.

Declaration of Conformity	Test Certificates	Marine / Shipping			
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[UK Declaration of Conformity](#)

[Special Test Certificate](#)

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping	other				
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[CCS / China Classification Society](#)

[Miscellaneous](#)

[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=3VA2225-5HL32-0BC0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-5HL32-0BC0>

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

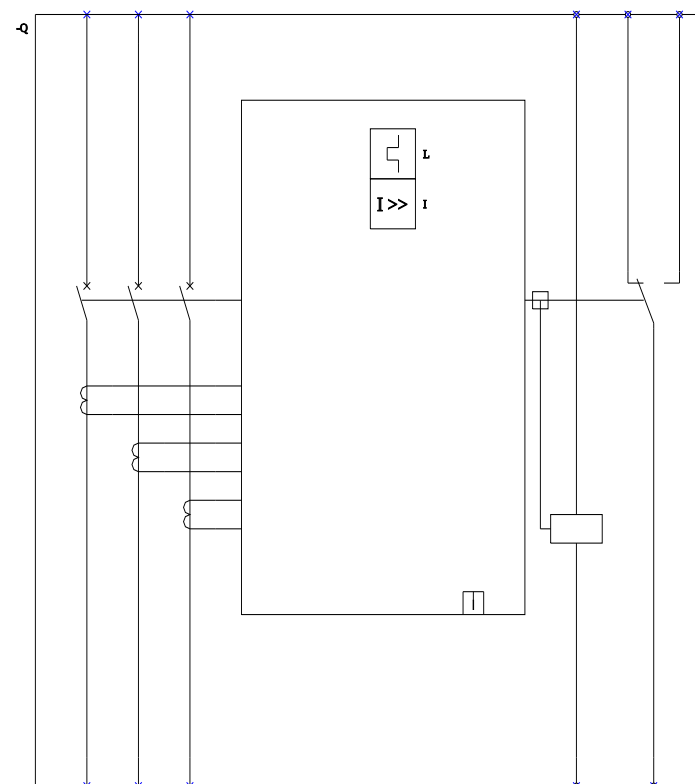
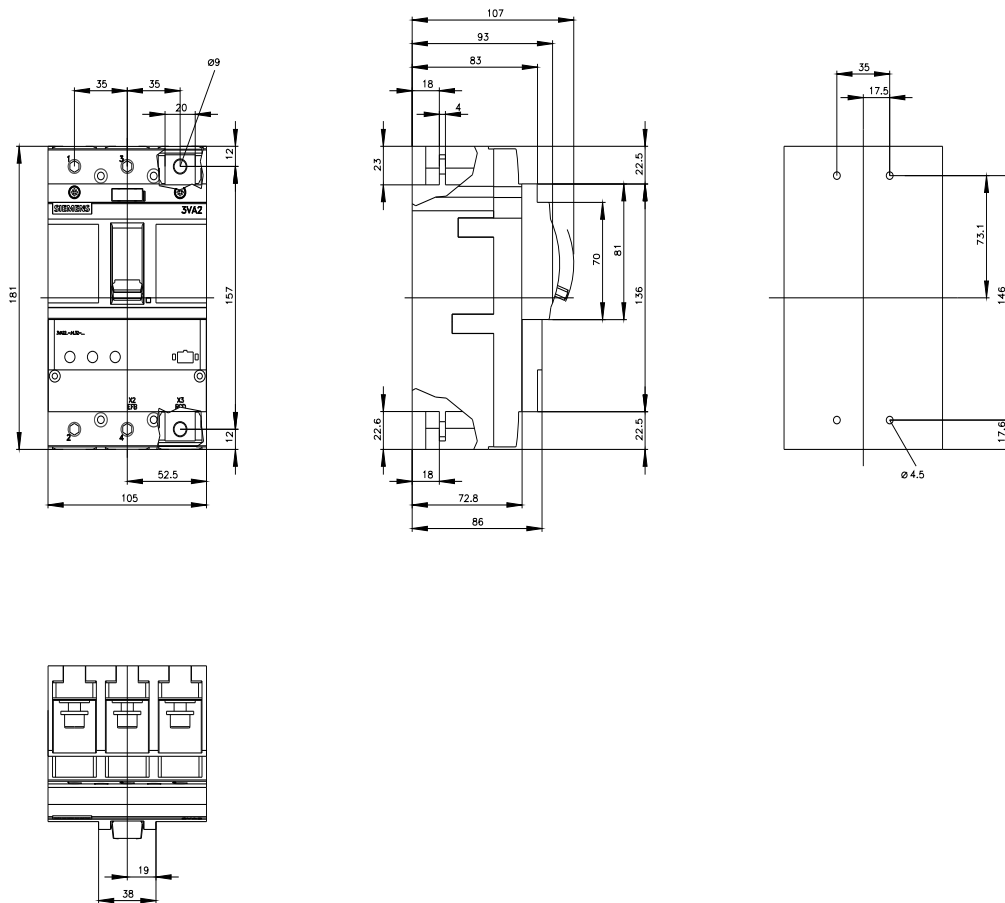
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-5HL32-0BC0

CAX-Online-Generator

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

Tender specifications

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



L (Long Time Delay / Überlastschutz); I (Instantaneous / Kurzschlusschutz, unverzögert);

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