



circuit breaker 3VA2 IEC frame 250 breaking capacity class H Icu=85kA @ 415V 3-pole, line protection ETU330, LIG, In=160A overload protection Ir=63A...160A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2... 1 x In, tg=0.1/0.3s nut keeper kit shunt trip (STL) 220-250V DC; 208-277V AC 1 auxiliary switch HP 1 trip alarm switch HP

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	Line protection
design of the overcurrent release	ETU330
protection function of the overcurrent release	LIG
number of poles	3
Auxiliary contact version	1 auxiliary switch + 1 trip alarm switch HP
General technical data	
rated insulation voltage Ui	800 V
power loss [W] / maximum	19.7 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	6.57 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	Summation current formation L-conductor
product function	
• communication function	No
• other measurement function	No
Net Weight	2,552 kg
Current	
Max. rated operational current of the frame size	250 A
Courant permanent assigné Iu	160 A
operational current	
• at 40 °C	160 A
• at 45 °C	160 A
• at 50 °C	160 A
• at 55 °C	160 A
• at 60 °C	160 A
• at 65 °C	160 A
• at 70 °C	160 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	110 kA
• at 415 V	85 kA

<ul style="list-style-type: none"> • at 440 V • at 500 V • at 690 V 	85 kA 55 kA 3 kA
breaking capacity operating short-circuit current (Ics) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V 	110 kA 85 kA 85 kA 55 kA 3 kA
short-circuit current making capacity (Icm) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V 	242 kA 187 kA 187 kA 121 kA 4.5 kA

Adjustable parameters

Adjustable response value current / li min.	240 A
Adjustable response value current / li max.	1 920 A
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes
Adjustable response value current / lg min.	32 A
Adjustable response value current / lg max.	160 A

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	
<ul style="list-style-type: none"> • undervoltage release • voltage trigger • trip indicator 	No Yes 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 unit 	#BEZUG! 3VA9988-0AA11 3VA9988-0AB11 3VA9688-0BL33

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 	-25 °C 70 °C -40 °C 80 °C

Certificates

reference code / acc. to IEC 81346-2	Q
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General Product Approval	EMC	Declaration of Conformity
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[Miscellaneous](#)



[UK Declaration of Conformity](#)

Declaration of Conformity	Test Certificates	Marine / Shipping			
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EG-Konf.

[Special Test Certificate](#)

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



ABS



DNV

Marine / Shipping	other			
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LRS

[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=3VA2216-6HM32-0KG0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2216-6HM32-0KG0>

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

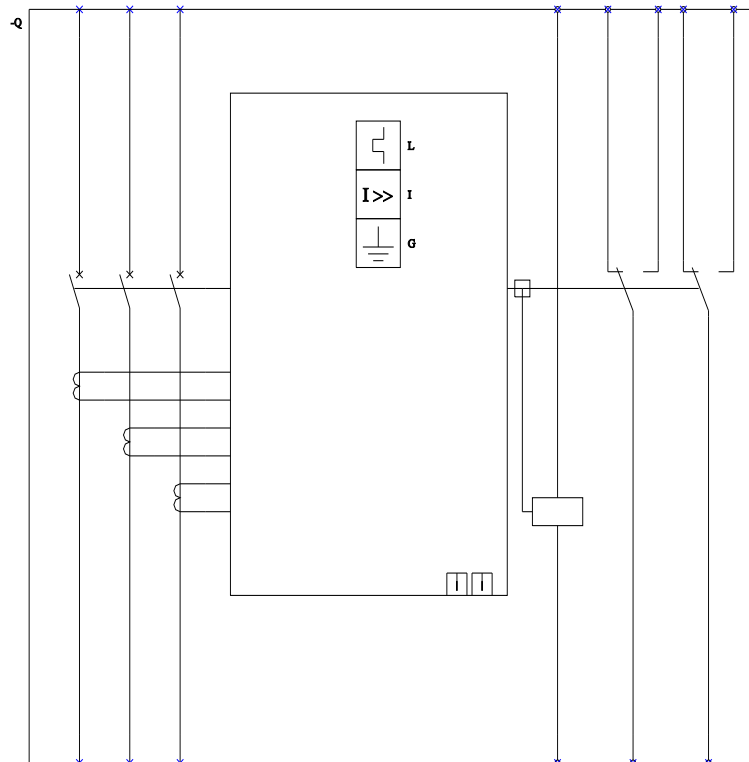
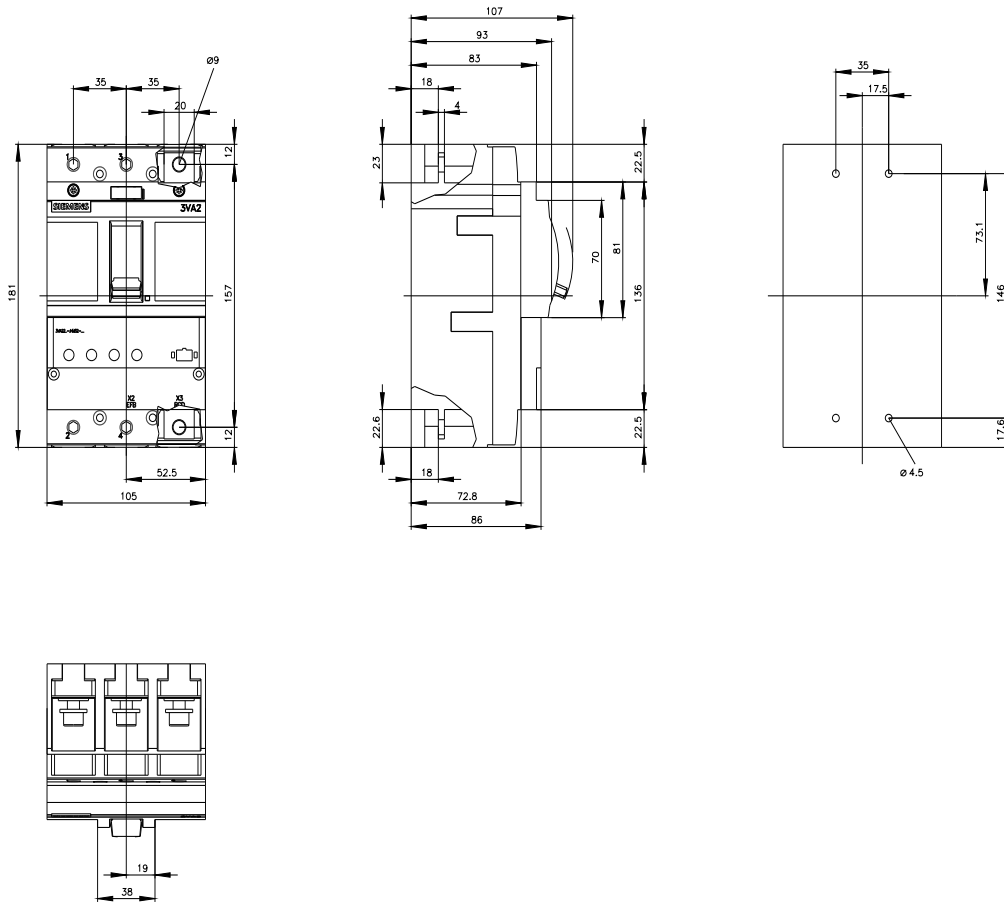
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2216-6HM32-0KG0

CAX-Online-Generator

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

Tender specifications

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



L (Long Time Delay / Überlastschutz); I (Instantaneous / Kurzschlusschutz, unverzögert);
G (Ground Fault Protection / Erdschutzschutz);

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10/8/2021

