



circuit breaker 3VA2 IEC frame 160 breaking capacity class M $I_{cu}=55\text{kA}$ @ 415V 3-pole, line protection ETU560, LSIG, $I_n=63\text{A}$ overload protection $I_r=25\text{A}...63\text{A}$ short-circuit protection $I_{sd}=0.6...10 \times I_n$, $I_i=1.5...12 \times I_n$ N conductor protection, opt. w. external current transformer gr.-fault prot., can be sw. off $I_g=0.25...1 \times I_n$ $t_g=0.05-0.8\text{s}$ nut keeper kit shunt trip (STL) 110-127V DC, 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	Line protection
design of the overcurrent release	ETU560
protection function of the overcurrent release	LSIG
number of poles	3
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
power loss [W] / maximum	4 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.33 W
mechanical service life (switching cycles) / typical	25 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	14 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	9 800
Neutral conductors / upgradeable/retrofitable	Yes
ground-fault monitoring version	Summation current formation L-conductor
product function	
• communication function	Yes
• other measurement function	No
Net Weight	2,5 kg
Current	
Max. rated operational current of the frame size	160 A
Courant permanent assigné I_u	63 A
operational current	
• at 40 °C	63 A
• at 45 °C	63 A
• at 50 °C	63 A
• at 55 °C	63 A
• at 60 °C	63 A
• at 65 °C	63 A
• at 70 °C	63 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 2.5 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 2.5 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 3.7 kA
Adjustable parameters	
Adjustable response value current / Ii min.	95 A
Adjustable response value current / Ii max.	756 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes
Adjustable response value current / Ig min.	16 A
Adjustable response value current / Ig max.	63 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
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	tin
Auxiliary circuit	
product component	
• undervoltage release • voltage trigger • undervoltage release with leading contact • trip indicator	No Yes No Yes
number of CO contacts / for auxiliary contacts	4
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 switch/alarm switch • of the integrated auxiliary switch/alarm switch • of the integrated auxiliary trip unit	3VA2163-5JQ32-0AA0 3VA9988-0AA12 3VA9988-0AB12 3VA9988-0AB22 3VA9688-0BL32
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
• during operation / minimum • during operation / maximum • during storage / minimum	-25 °C 70 °C -40 °C

• during storage / maximum

80 °C

Certificates

reference code / acc. to IEC 81346-2

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General Product Approval

EMC

Declaration of
Conformity



[Miscellaneous](#)



[UK Declaration of
Conformity](#)

Declaration of
Conformity

Test Certificates

Marine / Shipping



[Type Test Certificates/Test Report](#)

[Miscellaneous](#)

[Special Test Certificate](#)



Marine / Shipping

other



[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=3VA2163-5JQ32-0JL0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2163-5JQ32-0JL0>

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

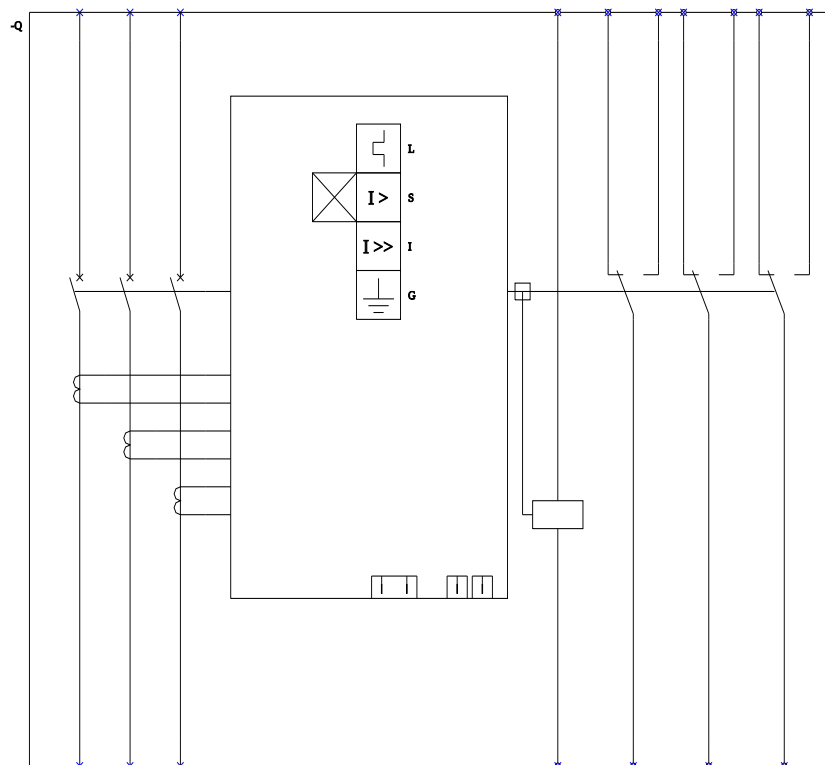
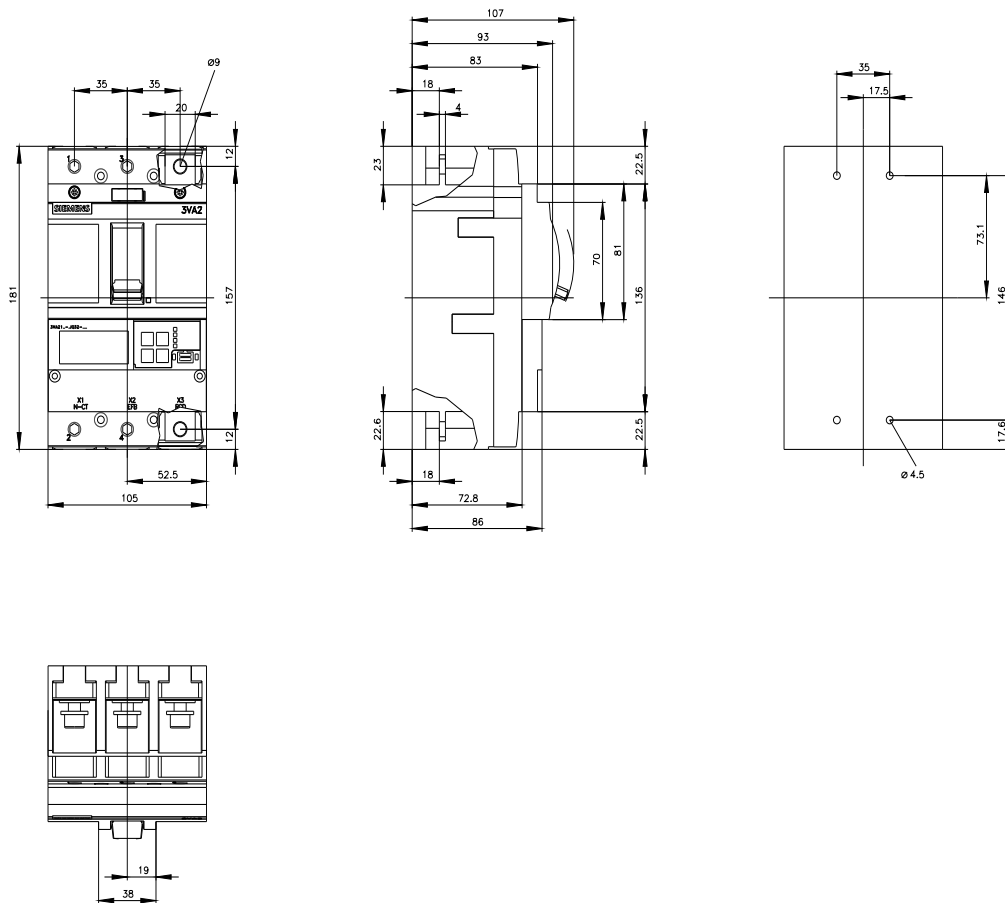
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2163-5JQ32-0JL0

CAX-Online-Generator

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

Tender specifications

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



L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlusschutz, kurzzeitverzögert);
I (Instantaneous / Kurzschlusschutz, unverzögert); G (Ground Fault Protection / Erdschlusschutz);

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