



circuit breaker 3VA2 IEC frame 100 breaking capacity class H $I_{cu}=85\text{kA}$ @ 415V 3-pole, line protection ETU560, LSiG, $I_n=100\text{A}$ overload protection $I_r=40\text{A}...100\text{A}$ short-circuit protection $I_{sd}=0.6...10 \times I_n$, $I_i=1.5...12 \times I_n$ N conductor protection optionally with external current transformer, up to 160% gr.-fault prot., can be sw. off $I_g=0.2...1 \times I_n$, $t_g=0.05-0.8\text{s}$ nut keeper kit 4 auxiliary switches HQ

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
design of the auxiliary release	Without auxiliary release
Auxiliary contact version	4 auxiliary switches HQ
General technical data	
rated insulation voltage U_i	800 V
power loss [W] / maximum	13.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4.5 W
mechanical service life (switching cycles) / typical	25 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	15 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	10 500
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	2,382 kg
Current	
Max. rated operational current of the frame size	100 A
Courant permanent assigné I_u	100 A
operational current	
• at 40 °C	100 A
• at 45 °C	100 A
• at 50 °C	100 A
• at 55 °C	100 A
• at 60 °C	100 A
• at 65 °C	100 A
• at 70 °C	100 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
breaking capacity maximum short-circuit current (I_{cu})	
• at 240 V	110 kA

• at 415 V • at 440 V • at 500 V • at 690 V	85 kA 85 kA 55 kA 2 kA
breaking capacity operating short-circuit current (Ics) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	110 kA 85 kA 85 kA 55 kA 2 kA
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	242 kA 187 kA 187 kA 121 kA 3 kA
Adjustable parameters	
Adjustable response value current / Ii min.	150 A
Adjustable response value current / Ii max.	1 200 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes
Adjustable response value current / Ig min.	20 A
Adjustable response value current / Ig max.	100 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 • trip indicator	No No No
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	#BEZUG! 3VA9988-0AA12
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			
Declaration of Conformity		Test Certificates		Marine / Shipping	
UK Declaration of Conformity		Type Test Certificates/Test Report	Special Test Certificate	Miscellaneous	 ABS  BUREAU VERITAS
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=3VA2010-6JQ32-0AE0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2010-6JQ32-0AE0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2010-6JQ32-0AE0

CAX-Online-Generator

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

Tender specifications

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

