



circuit breaker 3VA2 IEC frame 160 breaking capacity class C $I_{cu}=110\text{kA}$ @ 415V 3-pole, line protection ETU330, LIG, $I_n=25\text{A}$ overload protection $I_r=10\text{A} \dots 25\text{A}$ short-circuit protection $I_i=1.5 \dots 12 \times I_n$ ground-fault protection $I_g=0.2 \dots 1 \times I_n$, $t_g=0.1/0.3\text{s}$ nut keeper kit undervoltage release (UVR) 24V DC 1 auxiliary switch 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	ETU330
protection function of the overcurrent release	LIG
number of poles	3
Auxiliary contact version	1 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	3.1 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.03 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	No
ground-fault monitoring version	Summation current formation L-conductor
product function	
• communication function	No
• other measurement function	No
Net Weight	2,443 kg
Current	
Max. rated operational current of the frame size	160 A
Courant permanent assigné I_u	25 A
operational current	
• at 40 °C	25 A
• at 45 °C	25 A
• at 50 °C	25 A
• at 55 °C	25 A
• at 60 °C	25 A
• at 65 °C	25 A
• at 70 °C	25 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C
breaking capacity maximum short-circuit current (I_{cu})	
• at 240 V	150 kA
• at 415 V	110 kA

• at 440 V • at 500 V • at 690 V	110 kA 85 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	150 kA 110 kA 110 kA 85 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	330 kA 242 kA 242 kA 187 kA 3.7 kA
Adjustable parameters	
Adjustable response value current / li min.	38 A
Adjustable response value current / li max.	300 A
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes
Adjustable response value current / lg min.	15 A
Adjustable response value current / lg max.	25 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	Yes No Yes
number of CO contacts / for auxiliary contacts	3
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	#BEZUG! 3VA9988-0AA12 3VA9988-0AB12 3VA9988-0AB22 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	

General Product Approval		EMC	Declaration of Conformity
			
	Miscellaneous		UK Declaration of Conformity

Declaration of Conformity	Test Certificates		Marine / Shipping	
	Miscellaneous	Type Test Certificates/Test Report		
		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=3VA2125-7HM32-0BK0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2125-7HM32-0BK0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2125-7HM32-0BK0

CAX-Online-Generator

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

Tender specifications

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



