



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=25A OVERLOAD PROTECTION IR=10A ...25A SHORT CIRCUIT PROTECTION II=1,5...12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,100%) GROUNDFAULTPROTECTION IG=0,6... 1 X IN, TG=0,1/0,3S CABLE CONNECTION UNDERVOLTAGE RELEASE (LNO) 120-127 V AC 50/60 HZ 2 AUXILIARY SWITCH 1 TRIP ALARM SWITCH

Model	
product brandname	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Design of the overcurrent release	ETU330
Protective function of the overcurrent release	LIG
Number of poles	4
Design of the auxiliary release	Undervoltage release with leading NO contacts (UVR(LNO))
Design of the auxiliary switch	2 auxiliary switches + 1 trip alarm switch HP
General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	1 W
Mechanical service life (switching cycles) / typical	20 000
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	1 000

Neutral conductors / upgradeable/retrofitable	No
Ground fault monitoring version	Summation current formation L + N conductor
Product function	
• communication function	No
• Phase failure detection	No
• other measurement function	No
Net weight	3 130 g

Electricity

Max. rated operational voltage of the size of the circuit-breaker	160 A
Courant permanent assigné Iu	25 A
Operating current	
• at 40 °C	25 A
• at 45 °C	25 A
• at 50 °C	25 A
• at 55 °C	24.0625 A
• at 60 °C	23.125 A
• at 65 °C	22.1875 A
• at 70 °C	21.25 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	H
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2.5 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2.5 kA
Short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	3.75 kA

Adjustable parameters

Adjustable response value current / Ig min.	0.4 A
Adjustable response value current / Ig min.	1 A
Adjustable response value current / Ig min.	0.5
Adjustable response value current / Ig min.	17
Adjustable response value current / Ii min.	1.5 A
Ground fault protection can be switched ON/OFF	No

Adjustable response value current / lg min.	0.6 A
Adjustable response value current / lg max.	1 A
Adjustable response value current / tg min.	0.1 s
Adjustable response value current / lg min.	0.3 s

Mechanical Design

Height	181 mm
Width	140 mm
Depth	107 mm

Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	Box terminal
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (6-120 mm²)

Auxiliary circuit

Product component	
• undervoltage release	No
• Voltage trigger	No
• undervoltage release with leading contact	Yes
• Trip indicator	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	3VA2125-6HM46-0AA0
• of the integrated auxiliary switch/alarm switch	3VA9988-0AA11
• of the integrated auxiliary switch/alarm switch	3VA9988-0AB11
• of the integrated auxiliary trip	3VA9908-0BC24

Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

Certificates

Equipment marking / acc. to DIN EN 81346-2	Q
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General Product Approval			EMC	Declaration of Conformity	Test Certificates
					Typprüfbescheinigung/Werkszeugnis
CCC	VDE		RCM	EG-Konf.	

Test Certificates	Shipping Approval		other
sonstig			sonstig
	ABS	LRS	

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2125-6HM46-0FJ0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2125-6HM46-0FJ0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2125-6HM46-0FJ0

CAX-Online-Generator

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

Tender specifications

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

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