

circuit breaker 3VA1 IEC frame 160 breaking capacity class M
Icu=55kA @ 415V 3-pole, starter protection TM110M, FM, In=8A
without overload protection short-circuit protection Ii=15 x In nut
keeper kit



Model	
Product brand name	SETRON
Product designation	Molded case circuit breaker
Product version	Starter protection
Design of the overcurrent release	TM110M
Protective function of the overcurrent release	I
Number of poles	3

General technical data	
Rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Power loss [W] / maximum	2.4 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	0.8 W
Latching - endurance	15 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofitable	No

Ground fault monitoring version	Without
Product function	
• communication function	No
• Phase failure detection	No
• other measurement function	No
Net weight	0.9 kg

Current

Max. rated operational current of the frame size	160 A
Rated continuous current I _u	8 A
Operating current	
• at 40 °C	8 A
• at 45 °C	8 A
• at 50 °C	8 A
• at 55 °C	7.76 A
• at 60 °C	7.6 A
• at 65 °C	7.36 A
• at 70 °C	7.04 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	M
Maximum short-circuit current breaking capacity (I _{cu})	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	36 kA
• at 500 V	10 kA
• at 690 V	5 kA
Operational short-circuit current breaking capacity (I _{cs})	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	36 kA
• at 500 V	5 kA
• at 690 V	5 kA
Short-circuit current making capacity (I _{cm})	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	75 kA
• at 500 V	17 kA
• at 690 V	7.5 kA

Adjustable parameters

Adjustable response value current / I _i min.	128 A
Adjustable response value current / I _i max.	128 A

Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
Height [in]	5.1 in
Height	130 mm
Width [in]	3 in
Width	76.2 mm
Depth [in]	2.8 in
Depth	70 mm
Connections	
Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	lug terminal
Type of connectable conductor cross-section, connection screw, width x thickness , min.	12 x 1
Type of connectable conductor cross-section, connection screw, width x thickness , max.	17 x 6.5
Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0
Accessories	
Product extension / optional / motor drive	Yes
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	
Reference code / acc. to DIN EN 81346-2	Q

General Product Approval	EMC	Declaration of Conformity	Test Certificates	
 CCC		 RCM	 EG-Konf.	Miscellaneous Special Test Certificate

Shipping Approval	other
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LRS

[Manufacturer Declaration](#)

[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=3VA1108-5MG32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1108-5MG32-0AA0>

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

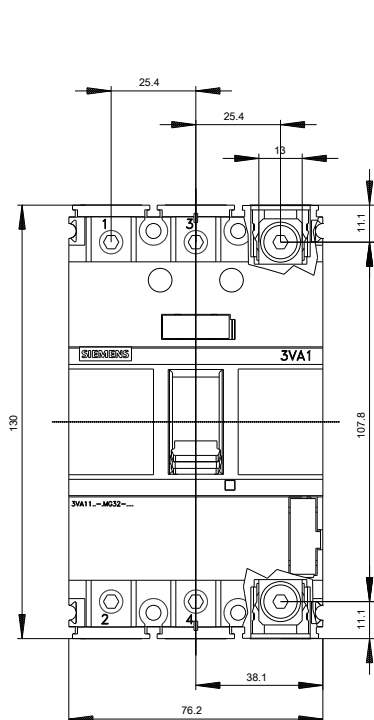
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1108-5MG32-0AA0

CAX-Online-Generator

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

Tender specifications

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





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