

circuit breaker 3VA1 IEC frame 160 breaking capacity class H
Icu=70kA @ 415V 3-pole, starter protection TM110M, FM, In=1A
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
protection function of the overcurrent release	I
number of poles	3
General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
power loss [W] / maximum	0.39 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	0.13 W
mechanical service life (switching cycles) / typical	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
Courant permanent assigné lu	1 A
operating current	
• at 40 °C	1 A
• at 45 °C	1 A
• at 50 °C	1 A
• at 55 °C	1 A
• at 60 °C	1 A
• at 65 °C	1 A
• at 70 °C	1 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	100 kA
• at 415 V	70 kA
• at 440 V	36 kA
• at 500 V	5 kA
• at 690 V	5 kA
operational short-circuit current breaking capacity (Ics)	
• at 240 V	100 kA
• at 415 V	70 kA
• at 440 V	36 kA
• at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	220 kA
• at 415 V	154 kA
• at 440 V	76 kA
• at 500 V	7.5 kA
• at 690 V	7.5 kA

Adjustable parameters

Adjustable response value current / li min.	16 A
Adjustable response value current / li max.	16 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 connectable conductor cross-section, connection screw, width x thickness , min.	12 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	17 x 6.5 mm
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	 EAC	 RCM	 EG-Konf.

[Miscellaneous](#)

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Test Certificates	Shipping Approval	other
Special Test Certificate	Type Test Certificates/Test Report	CCS / China Classification Society
		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=3VA1181-6MG32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1181-6MG32-0AA0>

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

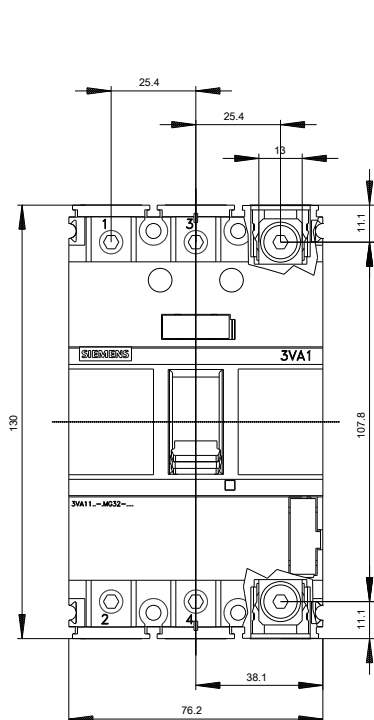
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1181-6MG32-0AA0

CAX-Online-Generator

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

Tender specifications

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



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