SIEMENS

Data sheet

3VA6110-7KM32-0AA0



circuit breaker 3VA6 UL frame 150 breaking capacity class C 100kA @ 480 V 3-pole, line protection ETU830, LIG, In=100A overload protection Ir=40A ...100A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2... 1 x In, tg=0.05-0.8s nut keeper kit on both sides

Model		
product brand name	SENTRON	
product designation	Molded-case circuit breaker	
product designation / according to UL file	CDAE	
design of the product	System protection	
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes	
design of the overcurrent release	ETU830	
protection function of the overcurrent release	LIG	
number of poles	3	
General technical data		
insulation voltage / rated value	800 V	
operating voltage / at AC / rated value	690 V	
power loss [W] / maximum	13 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4.33 W	
mechanical service life (operating cycles) / typical	25 000	
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	14 000	
electrical endurance (operating cycles) / at AC-1 / at 690 V	9 800	
electrical endurance (operating cycles) / at 480 V	14 000	
electrical endurance (operating cycles) / at 600 V	9 800	
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No	
ground-fault monitoring version	Summation current formation L-conductor	
product function		
 communication function 	Yes	
 other measurement function 	Yes	
Net Weight	2.645 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	No	
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	С	
maximum short-circuit current breaking capacity (Icu)		

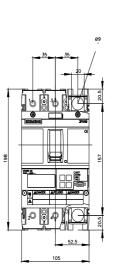
• at 240 V	150 kA
● at 415 V	110 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
I2t characteristic	40.0
• minimum	40 A 100 A
maximum adjustable response value delay time (tr) / for L-tripping / with l2t	
characteristic	
• minimum	0.5 s
• maximum	25 s
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	20 A
full-scale value	100 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	150 A
• maximum	1 200 A
product function / grounding protection	Yes
total break time / for G-tripping / with standard characteristic	
initial value	0.05 s
• full-scale value	0.8 s
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	7.8 in
height	198 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 connection
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	13 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 x 8.5 mm
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	

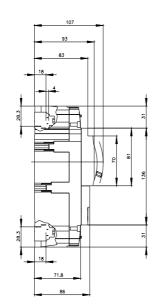
product extension / optional / motor drive		Yes			
Environmental condition	ons				
protection class IP / on the front			IP40		
ambient temperature					
during operation / minimum		-25 °C			
 during operation / maximum 			70 °C		
 during storage / 	during storage / minimum		-40 °C		
 during storage / 	maximum		80 °C		
Certificates					
reference code / accor	reference code / according to IEC 81346-2		Q		
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB		nbat	Yes		
General Product App	proval				
<u>Confirmation</u>		Ű		<u>Miscellaneous</u>	EHC
<u>Confirmation</u> EMC	CCC	٩	UL Marine / Shipping	Miscellaneous	EAC

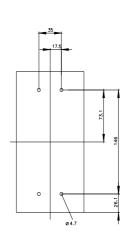
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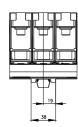
Transport Information

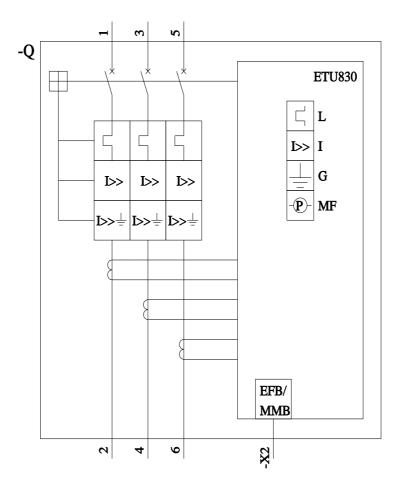
Further information
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875
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=3VA6110-7KM32-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA6110-7KM32-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6110-7KM32-0AA0
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications

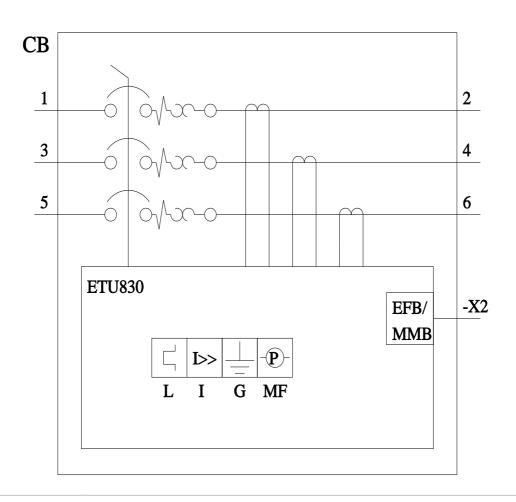












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