SIEMENS

Data sheet

3VA6110-7KM31-0AA0

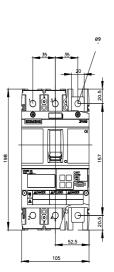


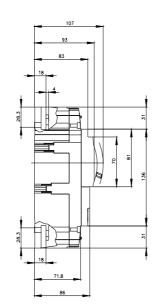
circuit breaker 3VA6 UL frame 150 breaking capacity class C 100kA @ 480V 3-pole, line protection ETU830, LIG, In=100A overload protection Ir=40A...100A short-circuit protection Ii=1.5...12 x In ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

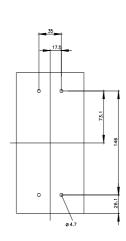
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CDAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	2.5 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)	

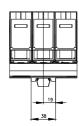
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
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	
• minimum	40 A
• maximum	100 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	25 s
adjustable response value setting current (li) / for I-tripping	
minimum	150 A
• maximum	1 200 A
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 response value setting current (Ig) / for G-tripping / with I2t characteristic	
• minimum	20 A
• maximum	100 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
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

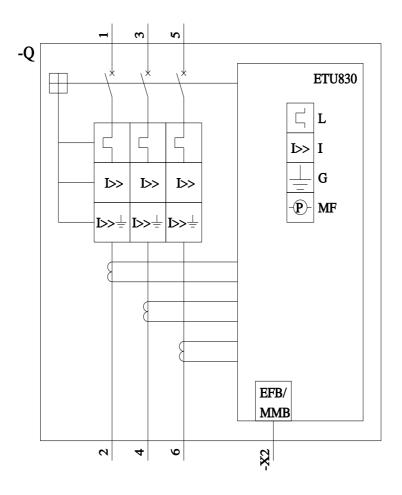
width			105 mm			
depth [in]			3.39 in			
depth			86 mm			
onnections				_		
arrangement of electrical connector	ors / for main curr	rent circuit	Without connectio	n		
type of electrical connection / for r	nain current circu	iit	Without			
uxiliary circuit						
number of CO contacts / for auxilia	ary contacts		0			
ccessories						
product extension / optional / moto	or drive		Yes			
nvironmental 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			
ertificates		_	00 0	_		
	91246.2		0			
reference code / according to IEC		a a mala a f	Q			
certificate of suitability / as approv vessels) / supplement SB	al for NAVAL (no	combat	Yes			
General Product Approval						
General Froduct Approval						
Con	firmation	\sim			^	Miscellaneous
(m)		<i>(</i> Ur)	<i>(</i> 11	.)		
		U		צ	Ē	
ccc		UL	U	L	VDE	
General Product Ap- proval EMC	^	Declaration of C	onformity		Marine / Shipping	
General Product Approval EMC	RCM	Declaration of C	onformity C EG+	E ionf.	Marine / Shipping	
ERE C	RCM	UK CA	C	E		B U REAU VERITAS
	RCM	Declaration of C UK CA other	C	E iont.		BUREAU VERITAS Dangerous Good
	RCM	UK CA	С ЕG-4			
Marine / Shipping	RCM	UK CA	С ЕG-4		ABS	-
marine / Shipping	RCM	UK other Miscellaneous	С ЕG-4		ABS	-
proval		UK other Miscellaneous	EG-)	nation	ABS	-
proval	en/pressrelease/s	UK other Miscellaneous	EG+ Confirm	nation	ABS	-
proval	en/pressrelease/s wal of the currer	UK other Miscellaneous	EG+ Confirm m-russian-business 295.	nation	Miscellaneous	Transport Informati
Inter information Siemens has decided to exit the inter information Siemens has decided to exit the inter information Siemens is working on the rene Please contact your local Siemens	en/pressrelease/s wal of the currer s office on the sta	UK other Miscellaneous	<u>c</u> <u>c</u> <u>c</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u>	mation	Miscellaneous	Transport Information
Inter information Siemens has decided to exit the information Siemens is working on the rene Please contact your local Siemens EAC relevant market (other than t nformation on the packaging	en/pressrelease/s wal of the currer s office on the sta he sanctioned EA	t (see here). siemens-wind-dow nt EAC certificate tus of validity of th AEU member state	<u>c</u> <u>c</u> <u>c</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u>	mation	Miscellaneous	Transport Informati
Interinformation Siemens has decided to exit the https://press.siemens.com/global// Siemens is working on the rene Please contact your local Siemens EAC relevant market (other than t Information on the packaging https://support.industry.siemens.com/global//	en/pressrelease/s wal of the current s office on the sta he sanctioned EA om/cs/ww/en/viev	t (see here). siemens-wind-dow nt EAC certificate tus of validity of th AEU member state w/109813875	<u>c</u> <u>c</u> <u>c</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u>	mation	Miscellaneous	Transport Information
Information on the packaging intersi/support.industry.signed.	en/pressrelease/s wal of the currer s office on the sta he sanctioned EA om/cs/ww/en/view er (Catalogs, Bro	t (see here). siemens-wind-dow nt EAC certificate tus of validity of th AEU member state w/109813875	<u>c</u> <u>c</u> <u>c</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u>	mation	Miscellaneous	Transport Information
Information on the packaging https://support.industry.siemens.com/lowvoltage	en/pressrelease/s wal of the currer s office on the sta he sanctioned EA om/cs/ww/en/view er (Catalogs, Broge/catalogs	t (see here). siemens-wind-dow nt EAC certificate tus of validity of th AEU member state w/109813875	<u>c</u> <u>c</u> <u>c</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u> <u>confin</u>	mation	Miscellaneous	Transport Information
proval	en/pressrelease/s wal of the currer s office on the sta he sanctioned EA om/cs/ww/en/viev er (Catalogs, Bro ge/catalogs ystem)	UK other Miscellaneous it (see here). siemens-wind-dow nt EAC certificate atus of validity of th AEU member state w/109813875 ochures,)	<u>m-russian-business</u> EAC certification ss Russia or Belaru	nation	Miscellaneous	Transport Information
proval Figure 2 Figure 2	en/pressrelease/s wal of the curren s office on the sta he sanctioned EA om/cs/ww/en/view er (Catalogs, Bro- ge/catalogs ystem) mall/en/en/Catalo tificates, Charac	UK other Miscellaneous Miscellaneous t (see here). siemens-wind-dow nt EAC certificate tus of validity of th AEU member state w/109813875 ochures,)		nation	Miscellaneous	Transport Information
proval Figure 2 Figure 2	en/pressrelease/s wal of the curren s office on the sta he sanctioned EA om/cs/ww/en/view er (Catalogs, Bro- ge/catalogs ystem) mall/en/en/Catalo tificates, Charac om/cs/ww/en/ps/S	UK other Miscellaneous Miscellaneous it (see here). siemens-wind-dow nt EAC certificate tus of validity of th AEU member state w/109813875 ochures,) og/product?mlfb=3 cteristics, FAQs, 3vA6110-7KM31-0	EG- Confirm	nation	Miscellaneous to import or offer to sup	Transport Information
Marine / Shipping	en/pressrelease/s wal of the current s office on the sta he sanctioned EA om/cs/ww/en/view er (Catalogs, Bro- ge/catalogs ystem) mall/en/en/Cataloc tificates, Charac om/cs/ww/en/ps/3 s, 2D dimension	t (see here). siemens-wind-dow nt EAC certificate tus of validity of th EU member state w/109813875 ochures,) bg/product?mlfb=3 :teristics, FAQs, 3VA6110-7KM31-0 o drawings, 3D mo		nation	Miscellaneous to import or offer to sup	Transport Informatio
proval Figure 2 Figure 2	en/pressrelease/s wal of the current s office on the sta he sanctioned EA om/cs/ww/en/view er (Catalogs, Bro- ge/catalogs ystem) mall/en/en/Cataloc tificates, Charac om/cs/ww/en/ps/3 s, 2D dimension	t (see here). siemens-wind-dow nt EAC certificate tus of validity of th EU member state w/109813875 ochures,) bg/product?mlfb=3 :teristics, FAQs, 3VA6110-7KM31-0 o drawings, 3D mo		nation	Miscellaneous to import or offer to sup	Transport Information
proval Figure 2 Figure 2	en/pressrelease/s wal of the current s office on the sta he sanctioned EA om/cs/ww/en/view er (Catalogs, Bro- ge/catalogs ystem) mall/en/en/Cataloc tificates, Charac om/cs/ww/en/ps/3 s, 2D dimension	t (see here). siemens-wind-dow nt EAC certificate tus of validity of th EU member state w/109813875 ochures,) bg/product?mlfb=3 :teristics, FAQs, 3VA6110-7KM31-0 o drawings, 3D mo		nation	Miscellaneous to import or offer to sup	Transport Information
proval Proval Marine / Shipping Marine / Shipping Marine / Shipping wither information Siemens has decided to exit the https://press.siemens.com/global// Siemens is working on the rene Please contact your local Siemens EAC relevant market (other than t Information on the packaging https://support.industry.siemens.com/ Information- and Downloadcent http://www.siemens.com/Iowvoltag Industry Mall (Online ordering s https://mall.industry.siemens.com/ Service&Support (Manuals, Cer http://www.automation.siemens.com/ Image database (product image http://www.automation.siemens.com/ CAX-Online-Generator	en/pressrelease/s wal of the current s office on the sta he sanctioned EA om/cs/ww/en/view er (Catalogs, Bro- ge/catalogs ystem) mall/en/en/Cataloc tificates, Charac om/cs/ww/en/ps/3 s, 2D dimension om/bilddb/cax_en	t (see here). siemens-wind-dow nt EAC certificate tus of validity of th EU member state w/109813875 ochures,) bg/product?mlfb=3 :teristics, FAQs, 3VA6110-7KM31-0 o drawings, 3D mo		nation	Miscellaneous to import or offer to sup	Transport Information

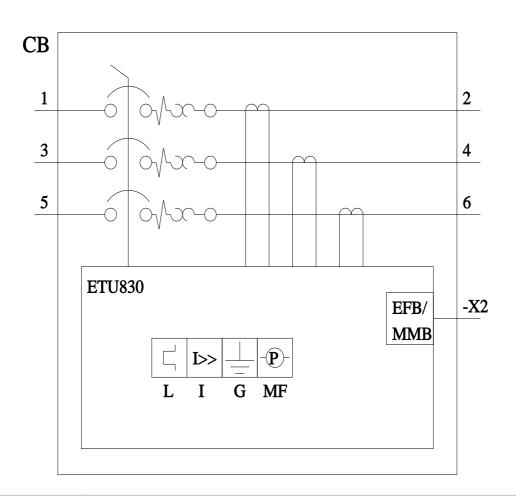












last modified:

8/14/2023 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: <u>3VA61107KM310AA0</u>