## SIEMENS

## Data sheet

## 3VA6110-7KM31-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class C 100kA @ 480V 3-pole, Line protection ETU830, LIG, In=100A overload protection, 100% rated 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			
<ul> <li>communication function</li> </ul>	Yes		
<ul> <li>other measurement function</li> </ul>	Yes		
Net Weight	2.3 kg		
Current			
marking / according to UL 489 / 100%-rated breaker	Yes		
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			
Connections		_				
arrangement of electrical co	nnectors / for main o	current circuit	Without connection			
	be of electrical connection / for main current circuit		Without			
Auxiliary circuit						
number of CO contacts / for	auxiliary contacts		0			
Accessories						
product extension / optional	/ motor drive		Yes			
Environmental conditions						
protection class IP / on the f	ront		IP40			
ambient temperature						
<ul> <li>during operation / mir</li> </ul>	nimum		-25 °C			
<ul> <li>during operation / ma</li> </ul>	ximum		70 °C			
<ul> <li>during storage / minin</li> </ul>	num		-40 °C			
<ul> <li>during storage / maxing</li> </ul>	mum		80 °C			
Certificates						
reference code / according t	to IEC 81346-2		Q			
certificate of suitability / as a vessels) / supplement SB		(no combat	Yes			
General Product Approva	I					
CCC CCC	<u>Confirmation</u>			Miscellaneou	<b>EHC</b>	
EMC De	eclaration of Confo	rmity	Marine / Shipp	ing	other	
RCM	CE EG-Konf.	UK CA	ABS		Confirmation	
other		Dangerous Goo	d			
<u>Miscellaneous</u>	<u>Miscellaneous</u>	Transport Informa	<u>ation</u>			
Further information						

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/qlobal/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=3VA6110-7KM31-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6110-7KM31-2AA0

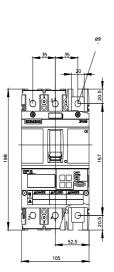
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA6110-7KM31-2AA0

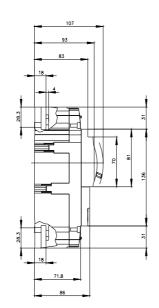
CAx-Online-Generator

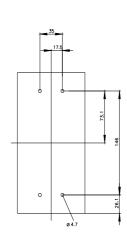
http://www.siemens.com/cax

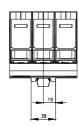
**Tender specifications** 

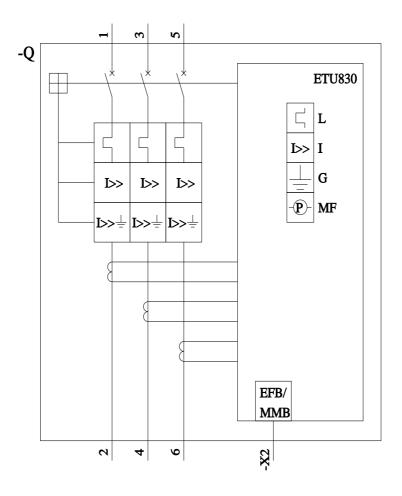
http://www.siemens.com/specifications

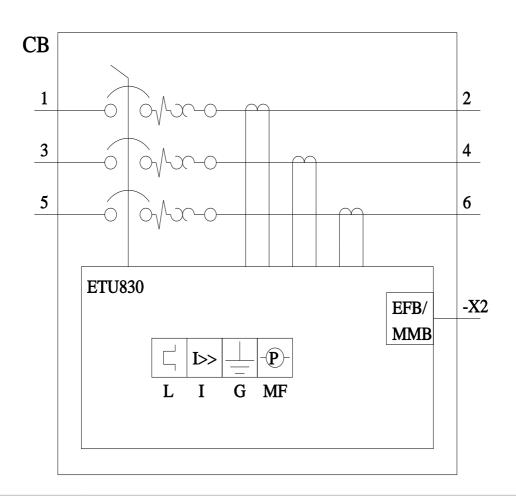












last modified:

8/14/2023 🖸

## **Mouser Electronics**

Authorized Distributor

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

Siemens: <u>3VA61107KM312AA0</u>