SIEMENS

Data sheet

3VA6110-5KT31-0AA0



circuit breaker 3VA6 UL frame 150 breaking capacity class M 35kA @ 480V 3pole, line protection ETU856, LSI, In=100A overload protection Ir=40A...100A short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection optionally with external current transformer, up to 160% ground-fault alarm message via EFB300 or COM without connection

Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	MDAE			
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	ETU856			
protection function of the overcurrent release	LSI-G-alarm only			
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	Yes			
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	Μ			
maximum short-circuit current breaking capacity (Icu)				

• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
current breaking capacity • at 240 V	100 kA
• at 240 V • at 480 V	35 kA
• at 400 V	18 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
l2t 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 (Isd) / of S-trip / with I0t characteristic	
• minimum	60 A
• maximum	1 000 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
• minimum	60 A
• maximum	1 000 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	450.4
• minimum	150 A
maximum diustable surrant response value surrant / far C tripping / with	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 delay time / of S-trip / with I2t characteristic	0.5 s

adjustable current resp	onse value current / of ins	antaneous				
short-circuit trip unit						
 minimum 			150 A			
 maximum 			1 200 A			
design of the N-conduc	tor protection		adjustab	le OFF; 20% to 160%	0	
product function / grour	nding protection		Yes			
total break time / for G-	tripping / with standard cha	aracteristic				
 initial value 			0.05 s			
 full-scale value 			0.8 s			
Mechanical Design			_			
product component						
 undervoltage relevant 	ease		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						
	al connectors / for main cu	Irrent circuit	Without	connection		
	ction / for main current circ		Without			
Auxiliary circuit			minout			
number of CO contacts	/ for auxiliary contacts		0			
			0			
Accessories	ional / motor drive		Vee			
product extension / opt			Yes			
Environmental conditio				_		
protection class IP / on	the front		IP40			
ambient temperature						
 during operation 			-25 °C			
 during operation 	/ maximum		70 °C			
 during storage / 	minimum		-40 °C			
during storage /	maximum		80 °C			
Certificates						
reference code / accord	ding to IEC 81346-2		Q			
certificate of suitability / vessels) / supplement S	/ as approval for NAVAL (r SB	io combat	Yes			
General Product App	roval					
(\mathbf{x})	<u>Confirmation</u>	(h)		(l)		<u>Miscellaneous</u>
ccc		UL		UL	VDE	
General Product Approval	EMC	Declaration of	Conformit	έ y	Marine / Shipping	
provar						
101	Â	UK		CE		
נחנ		CA		EG-Konf.	ABS	BUREAU
						VERITAS
Marine / Shipping		other				Dangerous Good
2 2		Miscellaneo	us	Confirmation	Miscellaneous	Transport Information
\mathbf{T}						
DNV						
DNV	RMRS					

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=3VA6110-5KT31-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6110-5KT31-0AA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6110-5KT31-0AA0

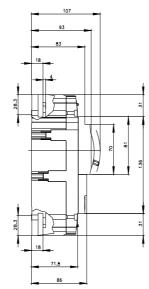
CAx-Online-Generator

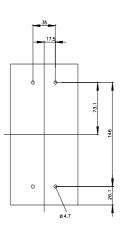
http://www.siemens.com/cax

Tender specifications

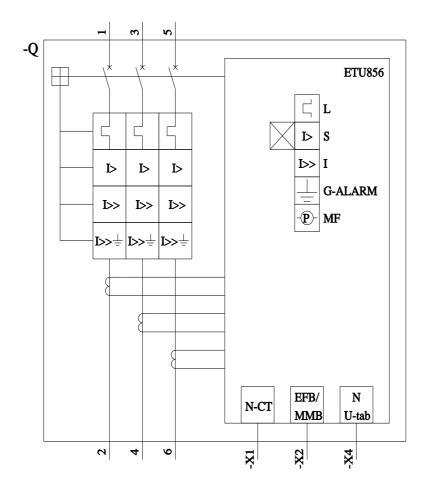
http://www.siemens.com/specifications

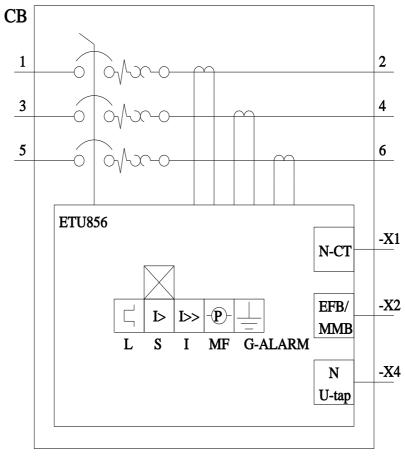












last modified:

8/14/2023 🖸

Mouser Electronics

Authorized Distributor

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

Siemens: <u>3VA61105KT310AA0</u>