# SIEMENS

#### Data sheet

### 3VA6110-5JT31-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class M 35kA @ 480V 3pole, Line protection ETU556, LSI, In=100A overload protection, 100% rated Ir=40A...100A Short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection optionally with external CT, 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	ETU556
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	
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>other measurement function</li> </ul>	No
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	M
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 short-circuit trip unit	oonse value current / of instantaneous				
• minimum		150 A			
• maximum		1 200 A			
design of the N-condu	ctor protection	adjustable OFF; 20% to 160%			
product function / grou	•	Yes			
· · ·	- · ·	165			
	-tripping / with standard characteristic	0.05 a			
initial value		0.05 s			
full-scale value		0.8 s			
Mechanical Design					
product component					
<ul> <li>undervoltage re</li> </ul>	lease	No			
<ul> <li>voltage trigger</li> </ul>		No			
<ul> <li>trip indicator</li> </ul>		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					
	cal connectors / for main current circuit	Without connection			
	ection / for main current circuit	Without			
Auxiliary circuit					
	s / for auxiliary contacts	0			
Accessories		0			
	tional (motor drive	Vee			
product extension / op		Yes			
Environmental condition		10.40			
protection class IP / or	n the front	IP40			
ambient temperature					
<ul> <li>during operation</li> </ul>		-25 °C			
<ul> <li>during operation</li> </ul>		70 °C			
<ul> <li>during storage /</li> </ul>	minimum	-40 °C			
<ul> <li>during storage /</li> </ul>	maximum	80 °C			
Certificates					
reference code / accor	rding to IEC 81346-2	Q			
certificate of suitability vessels) / supplement	/ as approval for NAVAL (no combat SB	Yes			
General Product App	proval				
<u>Confirmation</u>			<u>Miscellaneous</u>	EAC	
EMC	Declaration of Conformity	Marine / Shipping	other		
RCM	UK CA EG-Konf.	ABS	<u>Miscellaneous</u>	<u>Confirmation</u>	
other	Dangerous Good				
<u>Miscellaneous</u>	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=3VA6110-5JT31-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6110-5JT31-2AA0

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA6110-5JT31-2AA0

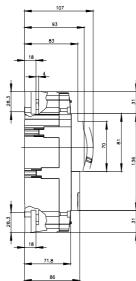
CAx-Online-Generator

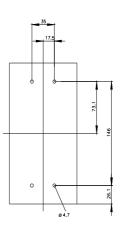
http://www.siemens.com/cax

Tender specifications

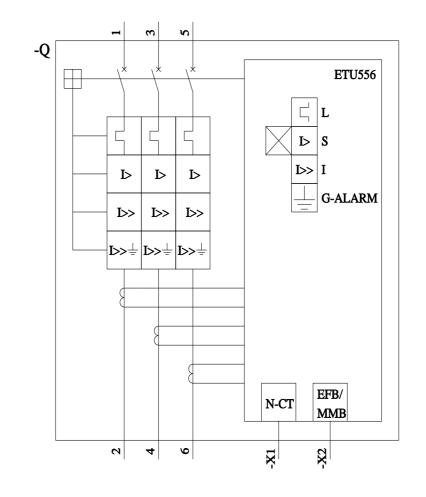
http://www.siemens.com/specifications

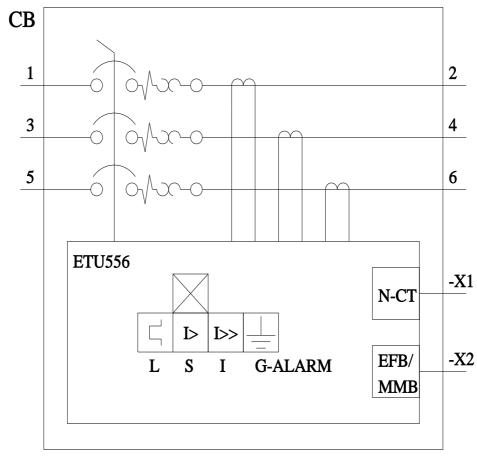












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