# SIEMENS

#### Data sheet

### 3VA6110-6KT31-0AA0



circuit breaker 3VA6 UL frame 150 breaking capacity class H 65kA @ 480V 3-pole, line protection ETU856, LSI, In=100A overload protection Ir=40A...100A shortcircuit 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	HDAE			
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				
<ul> <li>communication function</li> </ul>	Yes			
<ul> <li>other measurement function</li> </ul>	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	Н			
maximum short-circuit current breaking capacity (Icu)				

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• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	242 kA
• at 240 V • at 415 V	187 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	5.0 M
current breaking capacity	
• at 240 V	100 kA
• at 480 V	65 kA
• at 600 V	22 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 (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 l0t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with l2t characteristic	
• minimum	0.05 s
maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	150 A
• minimum	150 A 1 200 A
maximum     adjustable current response value current / for G-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 response value current / of inst	antaneous				
short-circuit trip unit					
• minimum		150 A			
• maximum		1 200 A			
design of the N-conductor protection			OFF; 20% to 160%	D	
product function / grounding 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					
<ul> <li>undervoltage release</li> </ul>		No			
<ul> <li>voltage trigger</li> </ul>		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 cu	Irrent circuit	Without co	onnection		
type of electrical connection / for main current circ		Without			
Auxiliary circuit	Juit	WithOut			
	_	0			
number of CO contacts / for auxiliary contacts		0			
Accessories			_		
product extension / optional / motor drive		Yes			
Environmental conditions			_		
protection class IP / on the front		IP40			
ambient temperature					
<ul> <li>during operation / minimum</li> </ul>		-25 °C			
<ul> <li>during operation / maximum</li> </ul>		70 °C			
<ul> <li>during storage / minimum</li> </ul>		-40 °C			
<ul> <li>during storage / maximum</li> </ul>		80 °C			
Certificates					
reference code / according to IEC 81346-2		Q			
certificate of suitability / as approval for NAVAL (n vessels) / supplement SB	io combat	Yes			
General Product Approval					
Provide and the second s					
Confirmation	Ŵ		Ű		<u>Miscellaneous</u>
General Product Ap-	Dealerst	Confere 1		Marine (Obi	
proval EMC	Declaration of (	Conformity		Marine / Shipping	
	CE EG-Konf.		UK CA	ABS	BUREAU VERITAS
Marine / Shipping	other				Dangerous Good
Ĵå 🐼	Miscellaneou	<u>IS</u>	<b>Confirmation</b>	Miscellaneous	Transport 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=3VA6110-6KT31-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6110-6KT31-0AA0

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA6110-6KT31-0AA0

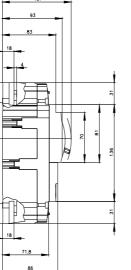
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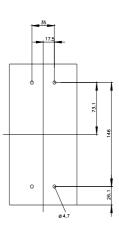
http://www.siemens.com/cax

Tender specifications

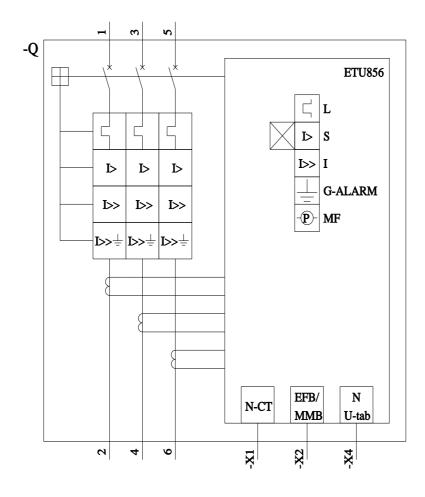
http://www.siemens.com/specifications

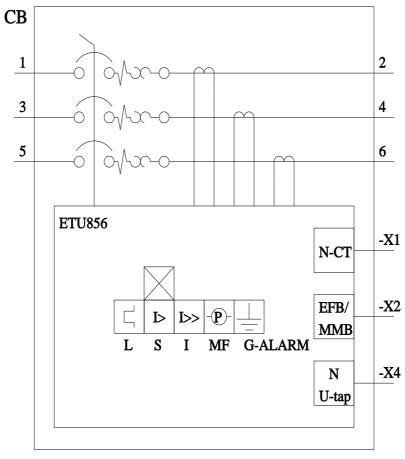












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