# SIEMENS

### Data sheet

## 3VA6210-6KT31-0AA0



circuit breaker 3VA6 UL frame 250 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	HFAE				
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	6.7 W				
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.23 W				
mechanical service life (operating cycles) / typical	25 000				
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	12 000				
electrical endurance (operating cycles) / at AC-1 / at 690 V	8 400				
electrical endurance (operating cycles) / at 480 V	12 000				
electrical endurance (operating cycles) / at 600 V	8 400				
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)					

- ct 240 \/	110 kA
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	3 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	4.5 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	65 kA
• at 600 Y/347 V	22 kA
• at 600 V	22 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
minimum	40 A
	40 A 100 A
maximum     adjustable response value delay time (tr) / for L tripping / with 12t	
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	
• 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 12t 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 instantaned				
short-circuit trip unit				
• minimum	1	50 A		
• maximum	1	200 A		
design of the N-conductor protection	a	ljustable OFF; 20% to 160%	6	
product function / grounding protection	Y	es		
total break time / for G-tripping / with standard characteris	stic			
initial value	0.	05 s		
• full-scale value	0.	8 s		
Mechanical Design				
product component				
<ul> <li>undervoltage release</li> </ul>	N	C		
<ul> <li>voltage trigger</li> </ul>	N	C		
trip indicator	N	D		
height [in]	7.	8 in		
height	19	98 mm		
width [in]	4.	13 in		
width	1(	)5 mm		
depth [in]	3.	39 in		
depth	8	3 mm		
Connections				
arrangement of electrical connectors / for main current cir	rcuit V	ithout connection		
type of electrical connection / for main current circuit	V	ïthout		
Auxiliary circuit				
number of CO contacts / for auxiliary contacts	0			
Accessories				
product extension / optional / motor drive	Y	es		
Environmental conditions				
protection class IP / on the front	IF	40		
ambient temperature				
during operation / minimum	-2	5 °C		
during operation / maximum	7(	О° (		
during storage / minimum	-4	0 °C		
during storage / maximum	8	О° (		
Certificates				
reference code / according to IEC 81346-2	Q			
certificate of suitability / as approval for NAVAL (no comb	at Y	es		
vessels) / supplement SB				
General Product Approval				
			_	
Confirmation	ŝ	ŝ		<b>Miscellaneous</b>
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ccc	UL	UL	VDE	
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DNV				
DNV RMRS				

#### Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}$ 

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=3VA6210-6KT31-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6210-6KT31-0AA0

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

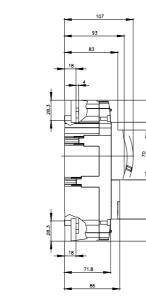
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA6210-6KT31-0AA0

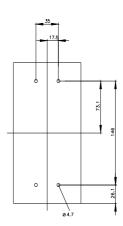
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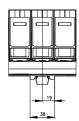
http://www.siemens.com/cax

**Tender specifications** 

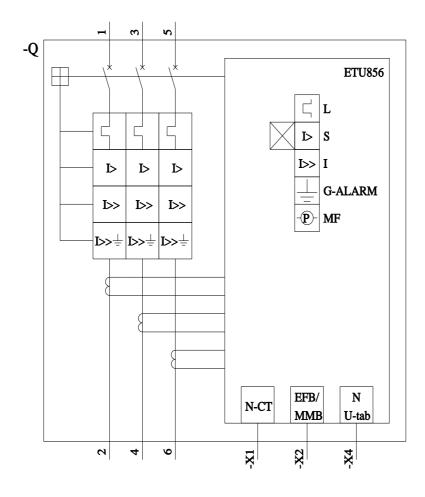
http://www.siemens.com/specifications

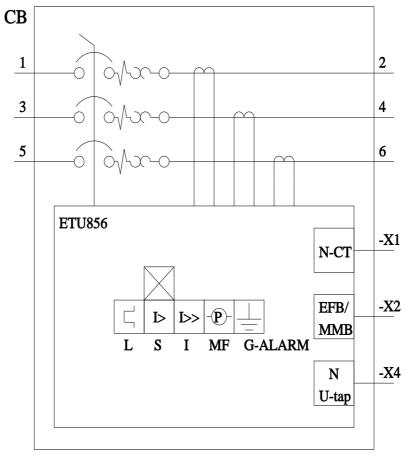






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