SIEMENS

Data sheet

3VA6210-6KT31-2AA0



Circuit breaker 3VA6 UL frame 250 breaking capacity class H 65kA @ 480V 3pole, Line protection ETU856, 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	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		
 communication function 	Yes	
other measurement function	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	Н	
maximum short-circuit current breaking capacity (Icu)		

• at 240 V	110 kA	
• at 240 V • at 415 V	85 kA	
• at 690 V	3 kA	
operating short-circuit current breaking capacity (lcs)		
• 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	
• maximum	40 A 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		
• 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 delay time / of S-trip / with I2t characteristic	0.5 s		
adjustable current response value current / of instantaneous	0.00		
short-circuit trip unit			
• minimum	150 A		
• maximum	1 200 A		
design of the N-conductor protection	adjustable OFF; 20% to 160%)	
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		
lechanical 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		
onnections			
arrangement of electrical connectors / for main current circuit	Without connection		
type of electrical connection / for main current circuit	Without		
uxiliary circuit			
number of CO contacts / for auxiliary contacts	0		
ccessories			
product extension / optional / motor drive	Yes		
nvironmental conditions			
protection class IP / on the front	IP40		
ambient temperature			
 during operation / minimum 	-25 °C		
during operation / maximum	70 °C		
during storage / minimum	-40 °C		
during storage / maximum	80 °C		
ertificates			
reference code / according to IEC 81346-2	Q		
certificate of suitability / as approval for NAVAL (no combat	Yes		
vessels) / supplement SB			
General Product Approval			
<u>Confirmation</u>		Miscellaneous	гпг
l cu	/ 🖤		FAL
CCC UL	UL		LIIL
EMC Declaration of Conformity	Marine / Shipping		other
A		0.0	Confirmation
κ c UK	(sugar	J&	Commation
	a martin	DNV	
RCM EG-Konf.	ABS	DNV	
othor	Cood		
other Dangerous C	5000		
Miscellaneous Miscellaneous Transport Info	ormation		

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=3VA6210-6KT31-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6210-6KT31-2AA0

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

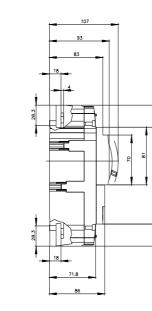
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6210-6KT31-2AA0

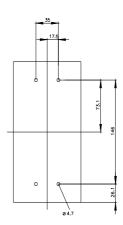
CAx-Online-Generator

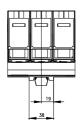
http://www.siemens.com/cax

Tender specifications

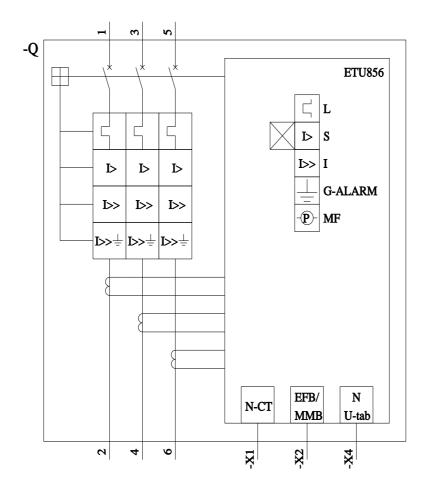
http://www.siemens.com/specifications

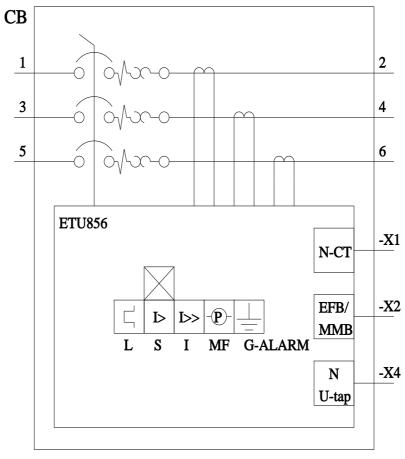






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