SIEMENS

Data sheet

3VA6225-7JQ31-2AA0



Circuit breaker 3VA6 UL frame 250 breaking capacity class C 100kA @ 480V 3pole, Line protection ETU560, LSIG, In=250A overload protection, 100% rated Ir=100A...250A Short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In N conductor protection optionally with external CT, up to 160% Ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	CFAE			
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	ETU560			
protection function of the overcurrent release	LSIG			
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	42 W			
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	14 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 	No			
Net Weight	2.3 kg			
Current				
marking / according to UL 489 / 100%-rated breaker	Yes			
operational current				
• at 40 °C	250 A			
● at 45 °C	250 A			
● at 50 °C	250 A			
● at 55 °C	238 A			
• at 60 °C	225 A			
● at 65 °C	213 A			
• at 70 °C	200 A			
Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	С			
maximum short-circuit current breaking capacity (Icu)				

• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	3 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	4.5 kA
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 Y/347 V	35 kA
• at 600 V	35 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
12t characteristic	
● minimum	100 A
maximum	250 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
● minimum	0.5 s
• maximum	13 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic	
• minimum	150 A
• maximum	2 500 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
• minimum	150 A
• maximum	2 500 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	
• minimum	375 A
• maximum	2 500 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	50 A
• full-scale value	250 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	50 A
• maximum	250 A
adjustable response value delay time (tg) / for G-tripping / with l2t 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	375 A		
• maximum	2 500 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		
connections			
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		
invironmental 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		
Certificates			
reference code / according to IEC 81346-2	Q		
certificate of suitability / as approval for NAVAL (no combat	Yes		
vessels) / supplement SB			
General Product Approval			
Confirmation		Miscellaneous	гпг
(u.)	ଜ ଜୁନ		FAL
CCC UL	UL		
EMC Declaration of Conformity	Marine / Shipping		other
A		0.0	<u>Confirmation</u>
κ c UK	(Startes)	ĴΔ	Commation
	a state	DNV	
RCM EG-Konf.	ABS	DNV	
other Dangerous G	iood		
Miscellaneous Miscellaneous Transport Info	rmation		

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=3VA6225-7JQ31-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6225-7JQ31-2AA0

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

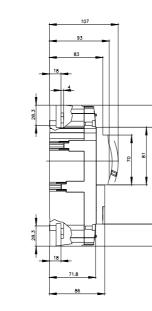
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6225-7JQ31-2AA0

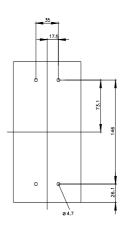
CAx-Online-Generator

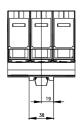
http://www.siemens.com/cax

Tender specifications

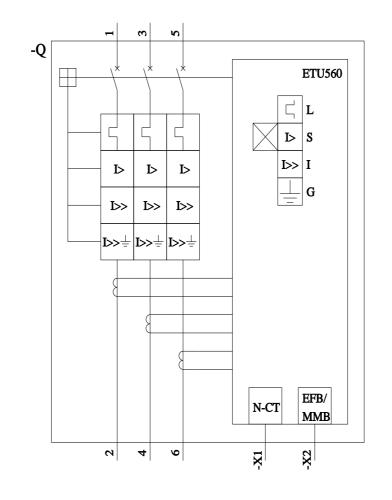
http://www.siemens.com/specifications

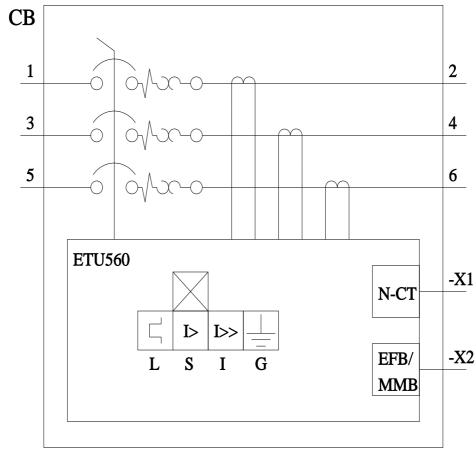






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