Data sheet 3VA6610-6JT46-0AA0



circuit breaker 3VA6 UL frame 1000 breaking capacity class H 65kA @ 480 V 4-pole, line protection ETU556, LSI, In=1000A overload protection Ir=400A ...1000A short circuit protection Isd=0,6...10x In, Ii=1,5...10x In

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HMNAE
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	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	330 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	110 W
mechanical service life (operating cycles) / typical	10 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 900
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 400
electrical endurance (operating cycles) / at 480 V	4 900
electrical endurance (operating cycles) / at 600 V	3 400
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Summation current formation L + N-conductor
product function	
 communication function 	Yes
other measurement function	No
Net Weight	23.298 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	0 A
• at 45 °C	0 A
• at 50 °C	0 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 415 V	85 kA
• at 690 V	35 kA
operating short-circuit current breaking capacity (lcs)	

• at 240 V 110 kA	
o ot 415 \/	
• at 415 V 85 kA	
• at 690 V 19 kA	
short-circuit current making capacity (Icm) • at 240 V 242 kA	
• at 240 V 242 KA • at 415 V 187 kA	
• at 690 V 74 kA	
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V 150 kA	
• at 480 V 65 kA	
• at 600 V 35 kA	
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum 400 A	
• maximum 1 000 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 600 A	
• maximum 10 000 A	
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
• minimum 600 A	
• maximum 10 000 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	
• minimum 1 500 A	
• maximum 10 000 A	
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value 200 A	
• full-scale value 1 000 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 (lg) / for G-tripping / with I2t characteristic	
minimum 200 A	
• maximum 1 000 A	
adjustable response value delay time (tg) / for G-tripping / with 12t characteristic	
• minimum 0.05 s	
• maximum 0.8 s	
adjustable absolute value setting current (InN) / for N-tripping	
• minimum 200 A	
• maximum 1 000 A	
adjustable delay time / of S-trip / with I2t characteristic 0.5 s	
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum 1 500 A	
• maximum 10 000 A	

design of the N-conductor protection	adjustable OFF; 20% to 100%
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]	12.91 in
height	328 mm
width [in]	11.02 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	4 x (4/0 - 500 kcmil)
width	280 mm
depth [in]	4.72 in
depth	120 mm
onnections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
uxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	No
Environmental 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
	Q Yes

Confirmation







Miscellaneous



EMC Declaration of Conformity Marine / Shipping













Marine / Shipping other **Dangerous Good**





Confirmation

Miscellaneous

Miscellaneous

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=3VA6610-6JT46-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6610-6JT46-0A

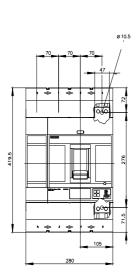
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6610-6JT46-0AA0

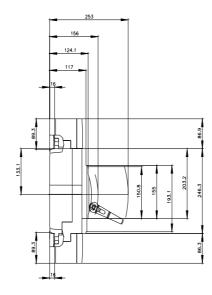
CAx-Online-Generator

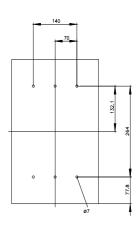
http://www.siemens.com/cax

Tender specifications

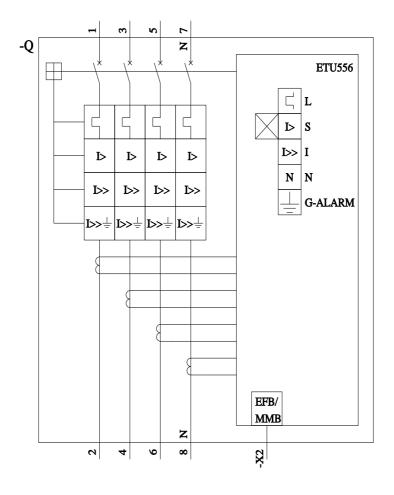
http://www.siemens.com/specifications

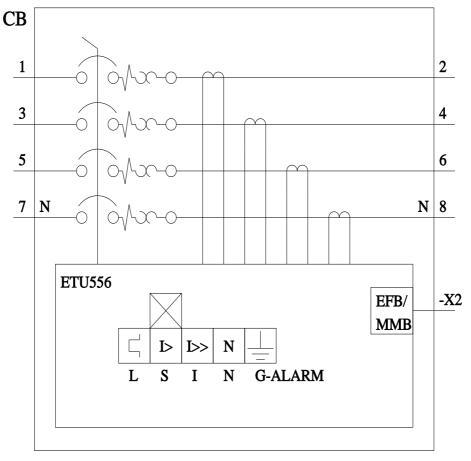












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