SIEMENS

Data sheet



circuit breaker 3VA6 UL frame 600 breaking capacity class H 65kA @ 480 V 3-pole, line protection ETU560, LSIG, In=600A overload protection Ir=240A ...600A short-circuit protection Isd=0.6..9x In, Ii=1.5..9x In N conductor protection opt. w. ext. CT; up to 160% ground-fault protection Ig=0.2... 1 x In, tg=0.05-0.8s nut keeper kit on both sides

Model		
product brand name	SENTRON	
product designation	Molded-case circuit breaker	
product designation / according to UL file	HLAE	
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	151 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	50.33 W	
mechanical service life (operating cycles) / typical	20 000	
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000	
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500	
electrical endurance (operating cycles) / at 480 V	4 000	
electrical endurance (operating cycles) / at 600 V	3 500	
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	5.596 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	No	
operational current		
• at 40 °C	600 A	
• at 45 °C	600 A	
• at 50 °C	570 A	
• at 55 °C	540 A	
• at 60 °C	510 A	
• at 65 °C	480 A	
• at 70 °C	450 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	Н	
maximum short-circuit current breaking capacity (Icu)		

a at 240 V	440 kA
• at 240 V	110 kA
at 415 Vat 690 V	85 kA 6 kA
operating short-circuit current breaking capacity (Ics)	O MA
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	9 kA
Switching capacity according to UL 489	
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	240 A
• maximum	600 A
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic	
• minimum	0.5 s
• maximum	15 s
adjustable response value setting current (Isd) / of S-trip / with l0t characteristic	
• minimum	360 A
• maximum	5 400 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 I2t characteristic	
• minimum	0.05 s
adjustable current response value current / for G-tripping / with	
standard characteristic	
• initial value	120 A
• full-scale value	600 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	
• minimum	0.05 s
• maximum	0.8 s
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	0.2 A
• maximum	1.6 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	900 A
maximum	5 400 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
Mechanical Design	
product component	

undervoltage release	No			
 voltage trigger 	No			
trip indicator	No			
height [in]	9.76 in			
height	248 mm			
width [in]	5.43 in			
width	138 mm			
depth [in]	4.33 in			
depth	110 mm			
Connections				
arrangement of electrical connectors / for main current circuit	Front connection			
type of electrical connection / for main current circuit	nut keeper kit on both ends			
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	20 x 1 mm			
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	35 x 10 mm			
Auxiliary circuit				
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				
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 vessels) / supplement SB	Yes			
General Product Approval		EMC		

Confirmation





Miscellaneous





Declaration of Conformity Marine / Shipping other Dangerous Good







Miscellaneous

Confirmation

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6460-6JQ32-0AA0}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6460-6JQ32-0AA0

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

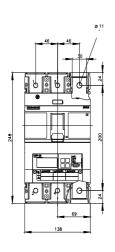
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6460-6JQ32-0AA0

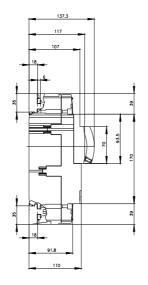
CAx-Online-Generator

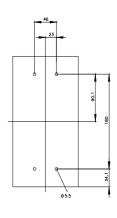
http://www.siemens.com/cax

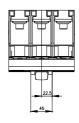
Tender specifications

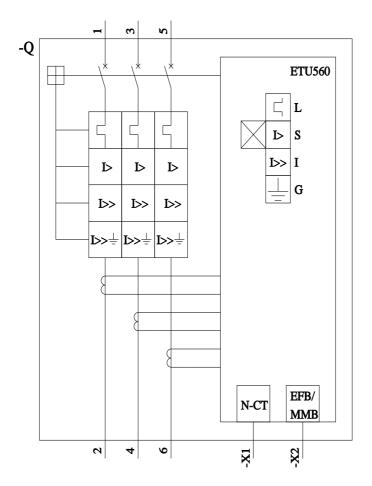
http://www.siemens.com/specifications

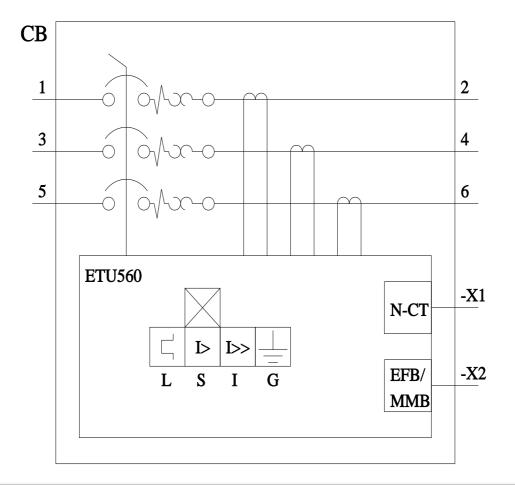




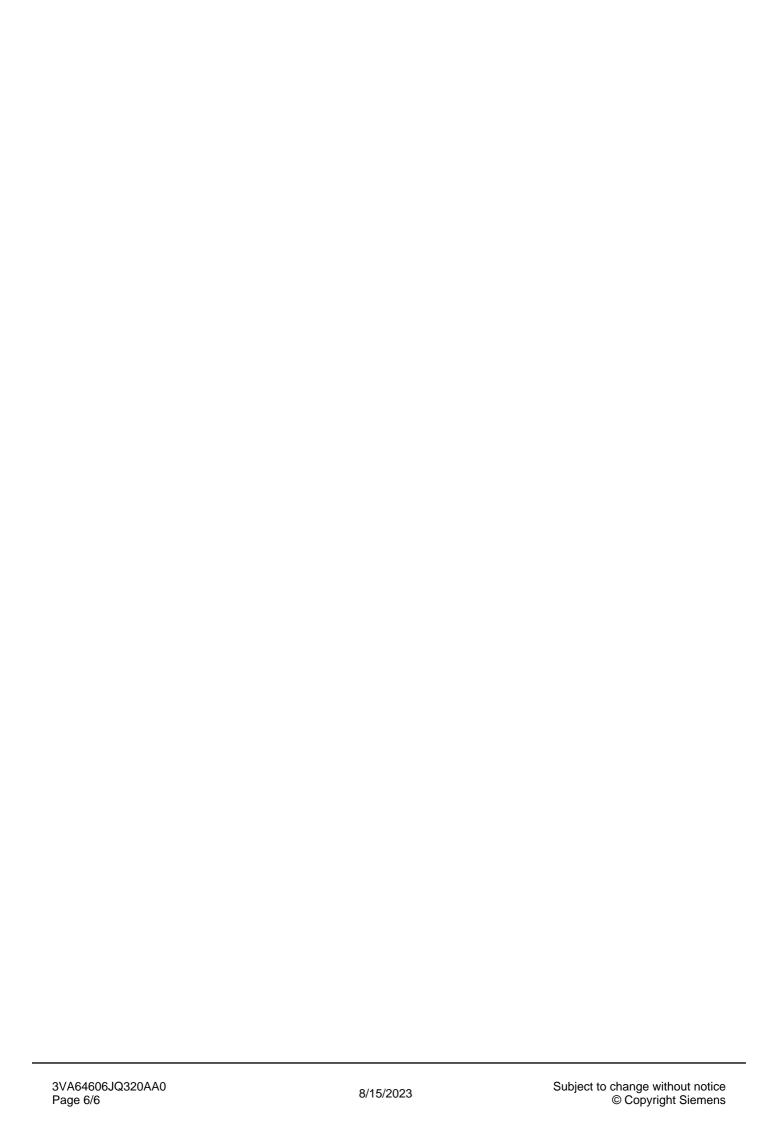








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