SIEMENS

Data sheet



circuit breaker 3VA6 UL frame 250 breaking capacity class H 65kA @ 480V 4-pole, line protection ETU560, LSIG, In=250A overload protection Ir=100A...250A short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In N conductor protection adjustable (OFF, up to 100%) 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	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	ETU560	
protection function of the overcurrent release	LSIG	
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	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	No	
ground-fault monitoring version	Summation current formation L + N-conductor	
product function		
 communication function 	Yes	
other measurement function	No	
Net Weight	3.2 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	No	
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	Н	
maximum short-circuit current breaking capacity (Icu)		

• 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 (lcm)	
● 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	
	100 A
• minimum	100 A 250 A
maximum adjustable response value delay time (tr.) / for L. tripping / with 12t.	200 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 (lsd) / of S-trip / with	
I0t characteristic	
• minimum	150 A
• maximum	2 500 A
adjustable response value setting current (lsd) / of S-trip / with l2t 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 (lg) / for G-tripping / with l2t characteristic	
minimum	50 A
maximum	250 A
adjustable response value delay time (tg) / for G-tripping / with	
• minimum	0.05 s
maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum	50 A
maximum	250 A

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adjustable delay time / of S-trip / with I2t characteristic	0.5 s
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	375 A
• maximum	2 500 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
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
• trip indicator	No
height [in]	7.8 in
height	198 mm
width [in]	5.51 in
width	140 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
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	



Confirmation







Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Marine / Shipping













Marine / Shipping

other

Dangerous Good





Confirmation

Miscellaneous

Miscellaneous

<u>Transport Information</u>

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=3VA6225-6JQ41-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6225-6JQ41-0AA0

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

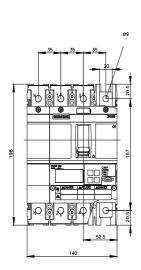
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6225-6JQ41-0AA0

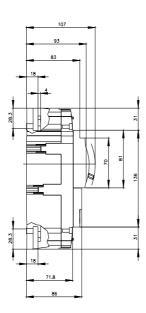
CAx-Online-Generator

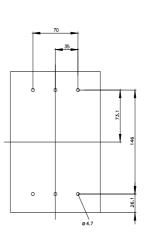
http://www.siemens.com/cax

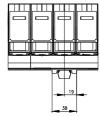
Tender specifications

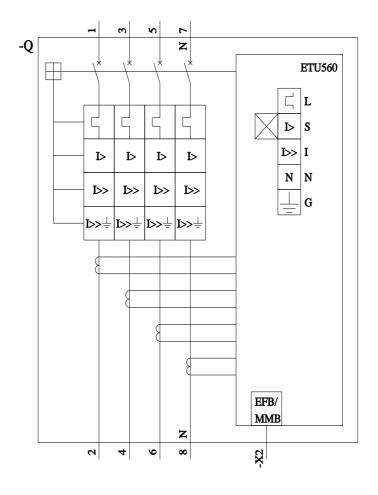
http://www.siemens.com/specifications

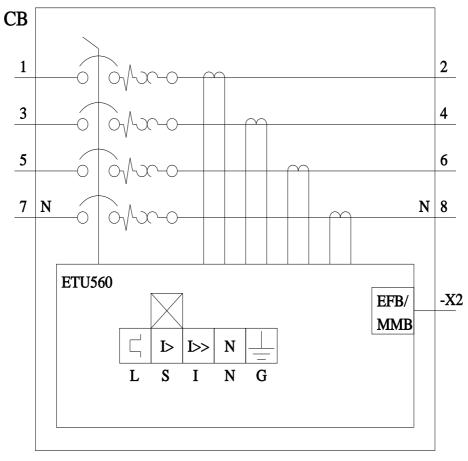












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