SIEMENS

Data sheet



Circuit breaker 3VA6 UL frame 250 breaking capacity class H 65kA @ 480V 4-pole, Line protection ETU850, 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 adjustable (OFF, up to 160%) 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	ETU850	
protection function of the overcurrent release	LSI	
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	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	No	
ground-fault monitoring version	without	
product function		
 communication function 	Yes	
other measurement function	Yes	
Net Weight	2.9 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 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	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 l0t 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 l0t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	450 A
• minimum	150 A
maximum adjustable setting current (InNL) / for NI tripping.	1 200 A
adjustable setting current (InN) / for N-tripping • minimum	20 A
minimum maximum	160 A
adjustable delay time / of S-trip / with I2t characteristic	0.5 s
adjustable delay time / or 5-trip / with 12t characteristic	0.0 3
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	No
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

140 mm		
3.39 in		
86 mm		
Connections		
Without connection		
Without		
Auxiliary circuit		
0		
Accessories		
Yes		
Environmental conditions		
IP40		
-25 °C		
70 °C		
-40 °C		
80 °C		
Certificates		
Q		
Yes		

Confirmation







Miscellaneous



EMC Declaration of Conformity Marine / Shipping other











Confirmation

other Dangerous Good

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=3VA6210-6KP41-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6210-6KP41-2AA0

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

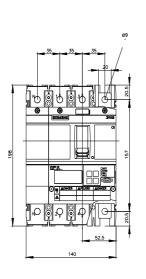
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6210-6KP41-2AA0

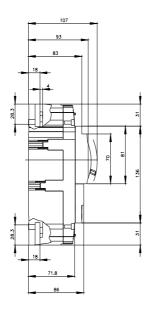
CAx-Online-Generator

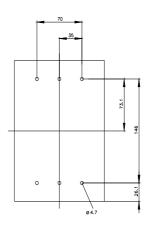
http://www.siemens.com/cax

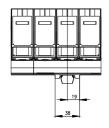
Tender specifications

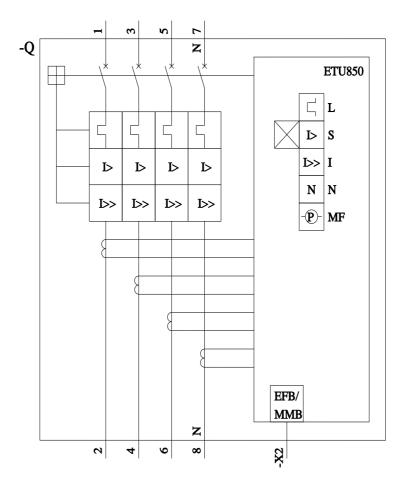
http://www.siemens.com/specifications

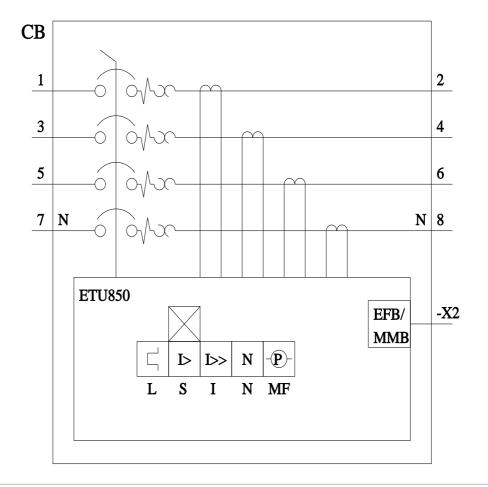












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