



circuit breaker 3VA6 UL frame 250 breaking capacity class H 65kA @ 480V
3-pole, line protection ETU350, LSI, $I_n=250A$ overload protection
 $I_r=100A...250A$ short-circuit protection $I_{sd}=1.5...10 \times I_r$, $I_i=10 \times I_n$ without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HFAE
Product version	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	ETU350
protection function of the overcurrent release	LSI
number of poles	3
General technical data	
rated insulation voltage U_i	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	42 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14 W
mechanical service life (switching cycles) / typical	25 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 400
electrical endurance (switching cycles) / at 480 V	12 000
electrical endurance (switching cycles) / at 600 V	8 400
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Net Weight	2.206 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	241 A
• at 60 °C	232 A
• at 65 °C	222 A
• at 70 °C	213 A

Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
breaking capacity maximum short-circuit current (I _{cu})	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	3 kA
breaking capacity operating short-circuit current (I _{cs})	
• at 240 V	110 kA
• at 415 V	85 kA
• at 690 V	3 kA
short-circuit current making capacity (I _{cm})	
• at 240 V	242 kA
• at 415 V	187 kA
• at 690 V	4.5 kA
Switching capacity according to UL 489	
breaking capacity current	
• 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 current / I _g min.	0.5 s
Adjustable response value current / I _g min.	13 s
Adjustable response value current / I _g min.	0.4 s
Adjustable response value current / I _i min.	2 500 A
Adjustable response value current / I _i max.	2 500 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No
Mechanical Design	
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
Auxiliary circuit	
product component	
• undervoltage release	No
• voltage trigger	No
• trip indicator	No
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](#)



General Product Approval

EMC

Declaration of
Conformity



[Miscellaneous](#)

[KC](#)



Declaration of
Conformity

Marine / Shipping

other



[Miscellaneous](#)

other

[Miscellaneous](#)

Further information

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=3VA6225-6HN31-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6225-6HN31-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6225-6HN31-0AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>

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