



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480V
4-pole, line protection TM210, FTFM, $I_n=250A$ overload protection $I_r=250A$
fixed short-circuit protection $I_i=10 \times I_n$ N conductor protection 100% without
connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HFAS
Product version	System protection
design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	4
General technical data	
Tension assignée d'isolement U_i	800 V
Max. rated operational voltage U_e with DC	1 000 V
power loss [W] / maximum	58 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	19.33 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
electrical endurance (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational current of the frame size	250 A
Courant permanent assigné I_u	250 A
operational current	
• at 45 °C	250 A
• at 50 °C	250 A
• at 55 °C	242.5 A
• at 60 °C	237.5 A
• at 65 °C	230 A

• at 70 °C	220 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	H	
breaking capacity maximum short-circuit current (Icu)		
• at 240 V	100 kA	
• at 415 V	70 kA	
• at 690 V	10 kA	
breaking capacity operating short-circuit current (Ics)		
• at 240 V	100 kA	
• at 415 V	70 kA	
• at 690 V	10 kA	
short-circuit current making capacity (Icm)		
• at 240 V	220 kA	
• at 415 V	154 kA	
• at 690 V	17 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	25 kA	
Adjustable parameters		
Adjustable response value current / I _g min.	250 A	
Adjustable response value current / I _g min.	250 A	
Adjustable response value current / I _i min.	2 500 A	
Adjustable response value current / I _i max.	2 500 A	
design of the N-conductor protection	1	
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No	
Mechanical Design		
height [in]	7.3 in	
Height	185 mm	
width [in]	5.5 in	
Width	140 mm	
depth [in]	3.3 in	
depth	83 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 / acc. to IEC 81346-2	Q	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	No	
General Product Approval	EMC	Declaration of Conformity



[Miscellaneous](#)



EG-Konf.

Shipping Ap-
proval

other



ABS

[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=3VA5225-6GD41-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5225-6GD41-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5225-6GD41-0AA0

CAX-Online-Generator

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

Tender specifications

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

