



circuit breaker 3VA4 UL Frame 125 breaking capacity class H 65 kA @ 277 V 1-pole, line protection TM210, FTFM, $I_n=100$ A overload protection $I_r=100$ A permanently set short-circuit protection $I_i=10 \times I_n$ terminal connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAB
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 load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)	No
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	1
General technical data	
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	7.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	7.6 W
mechanical service life (operating cycles) / typical	15 000
electrical endurance (operating cycles) / at 480 V	8 000
electrical endurance (operating cycles) / at 600 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Net Weight	0.426 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	100 A
• at 45 °C	98 A
• at 50 °C	96 A
• at 55 °C	93 A
• at 60 °C	91 A
• at 65 °C	89 A
• at 70 °C	87 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit

	breaker device manual; link to be found under Service & Support in the last chapter		
Switching capacity according to UL 489			
current breaking capacity			
• at 120 V			150 kA
• at 277 V			65 kA
• at 347 V			25 kA
Adjustable parameters			
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic			
• minimum			1 s
• maximum			1 s
product function / grounding protection			No
Mechanical Design			
product component			
• undervoltage release			No
• voltage trigger			No
• trip indicator			No
height [in]			5.09 in
height			129.4 mm
width [in]			2 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded			1 x (8 AWG - 3/0)
width			50.8 mm
depth [in]			2.96 in
depth			75.1 mm
Connections			
arrangement of electrical connectors / for main current circuit			output side: circular conductor connection
type of electrical connection / for main current circuit			Infeed side: Low tab
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)			Tin
Auxiliary circuit			
number of CO contacts / for auxiliary contacts			0
Accessories			
product extension / optional / motor drive			No
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
Approvals / Certificates			
General Product Approval		EMV	other



[Miscellaneous](#)



[Confirmation](#)

other	Environment		
Miscellaneous	Miscellaneous	Environmental Confirmations	

Further information			
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=3VA4110-6ED54-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4110-6ED54-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4110-6ED54-0AA0

CAX-Online-Generator

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

Tender specifications

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





