**Data sheet** 

## 3VA4145-6ED14-3AA0



circuit breaker 3VA4 UL Frame 125 breaking capacity class H 65 kA @ 277 V 1-pole, line protection TM210, FTFM, In=45 A overload protection Ir=45 A permanently set short-circuit protection Ii=10 x In

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)	Yes
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	Ц
number of poles	1
General technical data	
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	3.5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.5 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	
<ul> <li>communication function</li> </ul>	No
other measurement function	No
Net Weight	0.28 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	45 A
• at 45 °C	44 A
● at 50 °C	43 A
● at 55 °C	43 A
• at 60 °C	42 A
• at 65 °C	41 A
● at 70 °C	40 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
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-tri characteristic	pping / with I2t
• minimum	1 s
maximum	1 s
product function / grounding protection	No
Mechanical Design	
product component	
<ul> <li>undervoltage release</li> </ul>	No
<ul><li>voltage trigger</li></ul>	No
trip indicator	No
height [in]	5.09 in
height	129.4 mm
width [in]	1 in
type of connectable conductor cross-sections / of conductor terminal / stranded	1 x (8 AWG - 3/0)
width	25.4 mm
depth [in]	2.96 in
depth	75.1 mm
Connections	
arrangement of electrical connectors / for main cu	rent circuit output side: circular conductor connection
type of electrical connection / for main current circ	lit Infeed side: Low tab
design of the surface / of the connections / on the switch (N, 2, 4, 6) $$	bottom of the 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	
<ul> <li>during operation / minimum</li> </ul>	-25 °C
<ul> <li>during operation / maximum</li> </ul>	70 °C
<ul> <li>during storage / minimum</li> </ul>	-40 °C
<ul> <li>during storage / maximum</li> </ul>	80 °C
Approvals / Certificates	
General Product Approval	EMV other

Miscellaneous





Confirmation

**Miscellaneous** 

**Miscellaneous** 

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=3VA4145-6ED14-3AA0

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

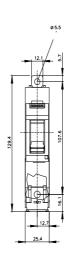
https://support.industry.siemens.com/cs/ww/en/ps/3VA4145-6ED14-3AA0

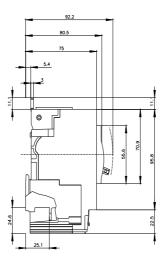
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> en.aspx?mlfb=3VA4145-6ED14-3AA0

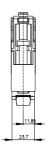
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 







last modified: 3/11/2024 🖸