## SIEMENS

## Data sheet

## 3VA5580-6EC36-0AA0



circuit breaker 3VA5 UL frame 800 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=800A overload protection Ir=800A fixed short circuit protection Ii=5...10 x In

Model					
product brand name	SENTRON				
product designation	Molded-case circuit breaker				
product designation / according to UL file	HMAS				
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	TM230				
protection function of the overcurrent release	LI				
number of poles	3				
General technical data					
insulation voltage / rated value	800 V				
operating voltage / at DC / rated value	750 V				
operating voltage / at AC / rated value	690 V				
power loss [W] / maximum	210 W				
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	70 W				
mechanical service life (operating cycles) / typical	10 000				
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	5 800				
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000				
electrical endurance (operating cycles) / at 480 V	5 800				
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				
<ul> <li>other measurement function</li> </ul>	No				
Net Weight	16.986 kg				
Current					
marking / according to UL 489 / 100%-rated breaker	No				
operational current					
• at 40 °C	800 A				
● at 45 °C	783 A				
● at 50 °C	766 A				
● at 55 °C	750 A				
• at 60 °C	733 A				

● at 65 °C	716 A
● at 70 °C	699 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	100 kA
• at 415 V	70 kA
• at 690 V	35 kA
operating short-circuit current breaking capacity (lcs)	400 14
● at 240 V ● at 415 V	100 kA 70 kA
• at 415 V • at 690 V	70 KA 19 kA
	19 KA
<ul> <li>short-circuit current making capacity (lcm)</li> <li>at 240 V</li> </ul>	220 kA
• at 210 V	154 kA
• at 690 V	73.5 kA
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 240 V	100 kA
• at 480 V	65 kA
• at 600 V	25 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	800 A
• maximum	800 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	4 000 A
• maximum	8 000 A
adjustable absolute value setting current (InN) / for N- tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of the current- dependent overload release	800 800 A
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]	12.91 in
height	328 mm
width [in]	8.27 in
type of connectable conductor cross-sections / of the	4 x (4/0 - 500 kcmil)
round conductor terminal / stranded	210 mm
width depth [in]	4.72 in
depth	4.72 m 120 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	No

Environmental condit	tions						
protection class IP / c	protection class IP / on the front IP40						
ambient temperature							
<ul> <li>during operatio</li> </ul>		-25 °					
<ul> <li>during operatio</li> </ul>		70 °					
<ul> <li>during storage</li> </ul>		-40 °					
<ul> <li>during storage</li> </ul>	/ maximum	80 °	C				
Certificates							
reference code / acco	ording to IEC 81346-2	Q					
General Product Ap	oproval						
(SP) Car	<u>Confirmation</u>	(UL) UL		VDE	<u>Miscellaneous</u>		
General Product Approval	EMC	Declaration of Conformity		Marine / Shipping			
EHC	RCM	UK CA	CE EG-Konf.	ABS	BUREAU VERITAS		
Marine / Shipping			other				
	Lloyd's Register urs	RMRS	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Miscellaneous</u>		
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=3VA5580-6EC36-0AA0							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA5580-6EC36-0AA0							
				diagrame \			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5580-6EC36-0AA0							

CAx-Online-Generator

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications