Data sheet

circuit breaker 3VA5 UL frame 800 breaking capacity class C 100kA @ 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	CMAS
Product version	System protection
Design of the load switch / acc. to UL 489 / Heating,	Yes
Air Conditioning, and Refrigeration circuit breaker	
(HACR Type)	
Design of the overcurrent release	TM230
Protective function of the overcurrent release	LI
Number of poles	3

General technical data	
Rated insulation voltage Ui	750 V
Max. rated operational voltage Ue with AC 50/60Hz	600 V
Max. rated operational voltage Ue with DC	500 V
Power loss [W] / maximum	210 W
Active power loss / for rated value of the current / at	70 W
AC / in hot operating state / per pole	
Mechanical service life (switching cycles) / typical	10 000

Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	5 800
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
Electrical endurance (switching cycles) / at 480 V / at 50/60 Hz	5 800
Electrical endurance (switching cycles) / at 600 V / at 50/60 Hz	4 000
Neutral conductors / upgradeable/retrofittable	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	800 A
Rated continuous current lu	800 A
Switching capacity according to IEC 60947	
Switching capacity class of the circuit breaker	С
Maximum short-circuit current breaking capacity (Icu)	
● at 240 V	200 kA
● at 415 V	110 kA
● at 690 V	35 kA
Operational short-circuit current breaking capacity (lcs)	
	150 kA
• at 240 V	85 kA
• at 415 V	
• at 690 V	19 kA
Short-circuit current making capacity (Icm)	440 kA
• at 240 V	
• at 415 V	242 kA
• at 690 V	74 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	
Breaking capacity current	
● at 240 V	200 kA
● at 480 V	100 kA
● at 600 V	50 kA
Adjustable parameters	
Adjustable response value current / Ir min.	800 A

Adjustable response value current / Ir max.	800 A
Adjustable response value current / li min.	4 000 A
Adjustable response value current / li max.	8 000 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No

Mechanical Design	
Height [in]	12.6 in
Height	328 mm
Width [in]	8.3 in
Width	210 mm
Depth [in]	4.7 in
Depth	120 mm

Connections	
Arrangement of electrical connectors / for main	Front connection
current circuit	

Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0

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 DIN EN 81346-2	Q
Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB	No

Connections

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=3VA5580-7EC32-0AA0

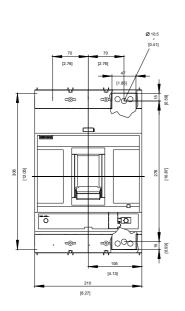
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5580-7EC32-0AA0

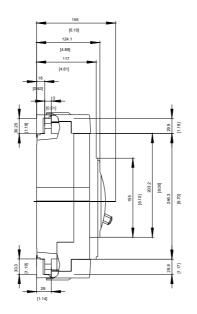
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5580-7EC32-0AA0

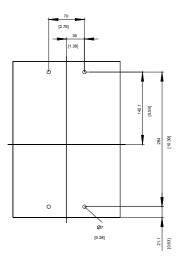
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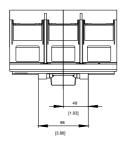
http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications









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