SIEMENS

Data sheet

3VA5160-6EC41-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480V 4-pole, line protection TM230, FTAM, In=60A overload protection Ir=60A fixed short-circuit protection Ii=5...10 x In N conductor unprotected without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAS
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	TM230
protection function of the overcurrent release	LI
number of poles	4
General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Max. rated operational voltage Ue with DC	600 V
power loss [W] / maximum	13.6 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4.53 W
mechanical service life (switching cycles) / typical	15 000
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/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	125 A
Courant permanent assigné lu	60 A
operational current	
• at 40 °C	60 A
• at 45 °C	59 A
● at 50 °C	58 A
● at 55 °C	57.1 A

● at 60 °C	56.2 A
• at 65 °C	55.3 A
• at 70 °C	54.4 A
	54:4 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
breaking capacity maximum short-circuit current (Icu)	4501-4
at 240 V at 415 V	150 kA
	70 kA 10 kA
• at 690 V	TU KA
breaking capacity operating short-circuit current (Ics) • at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit current making capacity (lcm)	
• at 240 V	330 kA
• at 415 V	154 kA
• at 690 V	17 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case
т	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	150 kA
● at 480 V	65 kA
● at 600 Y/347 V	25 kA
Adjustable parameters	
Adjustable response value current / lg min.	42 A
Adjustable response value current / lg min.	60 A
Adjustable response value current / li min.	300 A
Adjustable response value current / li max.	600 A
design of the N-conductor protection	Without
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
height [in]	5.5 in
Height	140 mm
width [in]	4 in
Width	101.6 mm
depth [in]	3 in
depth	76.5 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	No
combat vessels) / supplement SB	

General Product Approval











Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Test Certificates

Shipping Approval







Special Test Certificate **Miscellaneous**



Shipping Approval

other



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=3VA5160-6EC41-0AA0

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

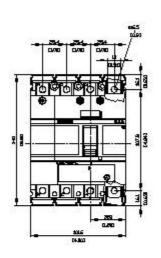
https://support.industry.siemens.com/cs/ww/en/ps/3VA5160-6EC41-0AA0

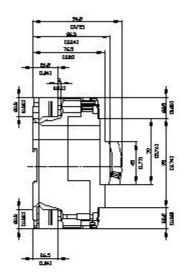
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

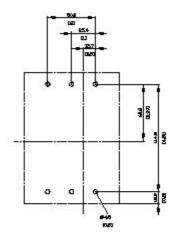
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5160-6EC41-0AA0

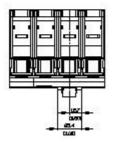
Tender specifications

http://www.siemens.com/specifications









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