3VA5150-6EC41-0AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480V 4-pole, line protection TM230, FTAM, In=50A overload protection Ir=50A 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	11.1 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.7 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	50 A
operational current	
● at 40 °C	50 A
● at 45 °C	49.1 A
● at 50 °C	48.3 A
● at 55 °C	47.5 A

 at 60 °C at 65 °C at 70 °C 46.7 A 46 A 45.2 A Switching capacity according to IEC 60947 switching capacity class of the circuit breaker breaking capacity maximum short-circuit current (Icu) at 240 V at 415 V at 690 V breaking capacity operating short-circuit current (Ics) at 240 V at 240 V breaking capacity operating short-circuit current (Ics) at 240 V at 690 V 5 kA at 690 V short-circuit current making capacity (Icm) at 240 V at 240 V at 690 V short-circuit current making capacity (Icm) at 240 V at 415 V at 690 V 5 kA 6 kA 7 kA 6 kA 7 ka 8 ka	
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circuit breaker device manual; link to be found under Service & S	
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. 35 A	
Adjustable response value current / Ig min. 50 A	
Adjustable response value current / li min. 250 A	
Adjustable response value current / li max. 500 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 Without	
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 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=3VA5150-6EC41-0AA0

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

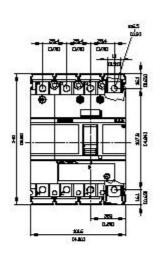
https://support.industry.siemens.com/cs/ww/en/ps/3VA5150-6EC41-0AA0

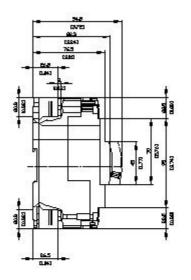
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

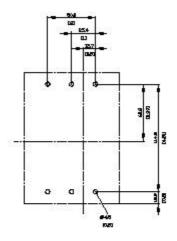
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5150-6EC41-0AA0

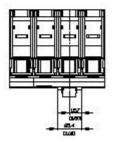
Tender specifications

http://www.siemens.com/specifications









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