SIEMENS

Data sheet

3VA5145-6EC41-0AA0

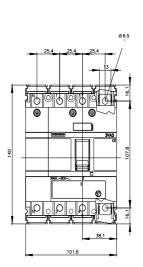


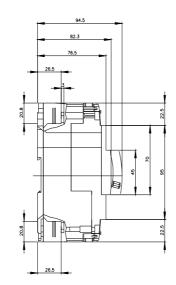
circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480V 4-pole, line protection TM230, FTAM, In=45A overload protection Ir=45A fixed short-circuit protection Ii=5...10 x In N conductor unprotected without connection

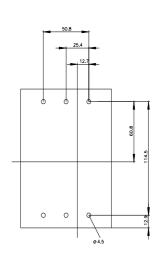
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAS
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design 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	TM230
protection function of the overcurrent release	LI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	11.4 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.8 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
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	
 communication function 	No
 other measurement function 	No
Net Weight	952 g
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	44 A
• at 55 °C	43 A
• at 60 °C	42 A
● at 65 °C	42 A

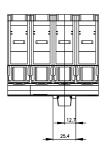
● at 70 °C	41 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	н
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	10 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• 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 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	150 kA
• at 480 V	65 kA
• at 600 Y/347 V	25 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	45 A
• maximum	45 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	225 A
• maximum	450 A
adjustable setting current (InN) / for N-tripping	
● minimum	0 A
maximum	0 A
adjustable current response value current / of the current- dependent overload release	32 45 A
design of the N-conductor protection	Without
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	5.51 in
height	140 mm
width [in]	4 in
width	101.6 mm
depth [in]	3.01 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

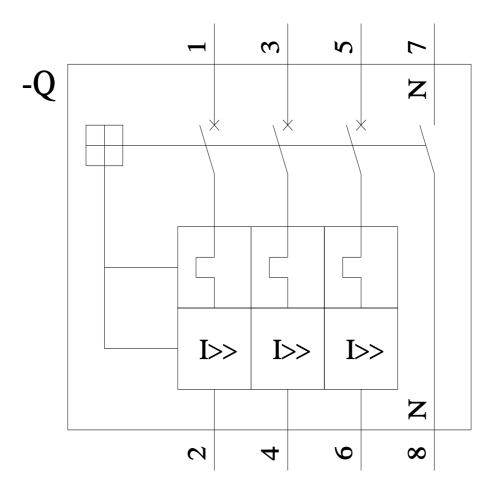
ambient temperature					
ambient temperatureduring operation	/ minimum	-25 °C	<u>,</u>		
during operation		20 °C			
during storage / r		-40 °C			
during storage / r		80 °C			
Certificates					
reference code / accord	ding to IEC 81346-2	Q			
General Product App	roval				
<u>Confirmation</u>			Ű		Miscellaneous
General Product Approval	EMC	Declaration of Conform	nity	Test Certificates	
EHC	RCM	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping		other			
Marine / Shipping	RMRS	other <u>Miscellaneous</u>	Confirmation	<u>Miscellaneous</u>	
ABS	RMRS		Confirmation	Miscellaneous	
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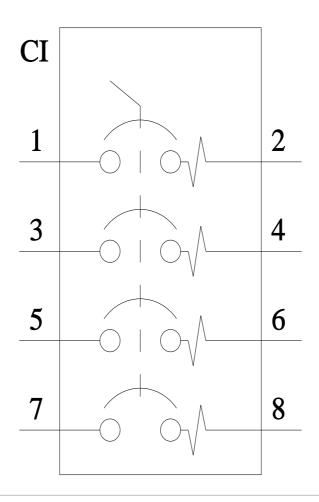












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