SIEMENS

Data sheet

3VA5125-6EC36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=25A overload protection Ir=25A fixed short-circuit protection Ii=6...12 x In UL489 SB (naval), 50 deg. cel. cable connection on both sides

Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	HEAM			
Product version	System protection			
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR	Yes			
Туре)				
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	3			
General technical data				
operating voltage / at AC / rated value	690 V			
power loss [W] / maximum	8.6 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	2.87 W			
mechanical service life (switching cycles) / typical	20 000			
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			
Net Weight	0.934 kg			
Current				
marking / according to UL 489 / 100%-rated breaker	No			
operational current				
• at 40 °C	25 A			
● at 45 °C	24 A			
• at 50 °C	24 A			
● at 55 °C	23 A			
• at 60 °C	23 A			
● at 65 °C	23 A			
• at 70 °C	22 A			

Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	н
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
0	in the last chapter
Switching capacity according to UL 489	
breaking capacity current • at 240 V	150 kA
• at 240 V • at 480 V	65 kA
• at 600 Y/347 V	25 kA
Adjustable parameters	20 101
product feature / for L-tripping / selectable characteristic	No
function	
type of value list setting current (Ir) / for L-tripping / with I2t characteristic	Fest
reference value setting current (Ir) / for L-tripping / with I2t characteristic	x In
set values setting current (Ir) / for L-tripping / with I2t characteristic	1
adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / minimum	1
adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / maximum	1
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / minimum	25 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	25 A
type of value list delay time (tr) / for L-tripping / with I2t characteristic	Fest
reference value delay time (tr) / for L-tripping / with I2t characteristic	S
set values delay time (tr) / for L-tripping / with I2t characteristic	1
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / minimum	1 s
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / maximum	1 s
product feature / for S-tripping / independent of direction / selectable characteristic function	No
product feature / for I-tripping / can be switched on/off	No
design of I-trip / adjustable	Yes
reference value setting current (li) / for I-tripping	x In
set values setting current (li) / for I-tripping	6;7.2;8.4;9.6;10.8;12
adjustable response factor setting current (li) / for l- tripping / minimum	6
adjustable response factor setting current (li) / for l- tripping / maximum	12
adjustable response value setting current (li) / for I-tripping / minimum	150 A
adjustable response value setting current (li) / for I-tripping / maximum	300 A
product feature / for G-tripping / selectable characteristic function	No
product feature / with neutral conductor protection / can be switched on/off	No
product feature / with neutral conductor protection / adjustable	Yes
type of value list setting current (InN) / for N-tripping	St
reference value setting current (InN) / for N-tripping	x In
adjustable absolute value setting current (InN) / for N- tripping / minimum	0 A
adjustable absolute value setting current (InN) / for N- tripping / maximum	0 A
tripping characteristic / of the lower tolerance band	AK_3VA5_1_25A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_25A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_25A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_25A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_25A_TM_line u starter_3u4p_690V

	ing current (Ii) / for I-tripping c / of the let-through current	St DS_3VA5_1_25A_TM_line u starter_3u4p_240V				
characteristic / at 24		DS_3VA5_1_25A_TM_line u starter_3u4p_415V				
characteristic / at 41		DS_3VA5_1_25A_TM_line u starter_3u4p_690V				
characteristic / at 690						
Adjustable response	value current / lg min.	25 A				
	sponse value current / of the current- release / full-scale value	25 A				
Ground fault protecti	on / tripping switchable / I2t=ON/OFF	No				
Mechanical Design						
product component						
 undervoltage r 	elease	No				
 voltage trigger 		No	No			
 trip indicator 		No				
height [in]		5.51 in	5.51 in			
Height		140 mm	140 mm			
width [in]		3 in				
Type of connectable conductor terminal, s	conductor cross-section, round stranded	1 x (8 AWG - 3/0)				
Width		76.2 mm				
depth [in]		3.01 in	3.01 in			
depth		76.5 mm				
Connections						
arrangement of elect circuit	rical connectors / for main current	Front connection				
type of electrical con	nection / for main current circuit	circular conductor terminal on both sides				
Auxiliary circuit						
number of CO conta	cts / for auxiliary contacts	0				
Accessories						
product extension / c	optional / motor drive	Yes				
Environmental condi						
protection class IP /		IP40				
ambient temperature						
 during operation 		-25 °C				
 during operation 		70 °C				
 during storage 		-40 °C				
 during storage 		80 °C				
Certificates						
	ty / as approval for NAVAL (no	Yes				
General Product A						
Confirmation	(m) (h)		DE	Miscellaneous		
		<u> </u>				
		ŬĽ	VDE			
EMC	Declaration of Conformity	Marine / Shipping		other		
~		and and		Miscellaneous		
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Further information						
	ownloadcenter (Catalogs, Brochures,)				
	com/lowvoltage/catalogs					
	ne ordering system) siemens.com/mall/en/en/Catalog/produc	t2mlfb=3\/A5125-6EC36-1AA0				

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5125-6EC36-1AA0

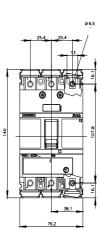
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5125-6EC36-1AA0

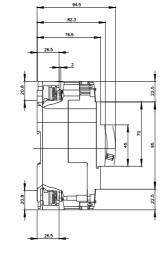
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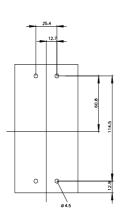
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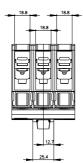
Tender specifications

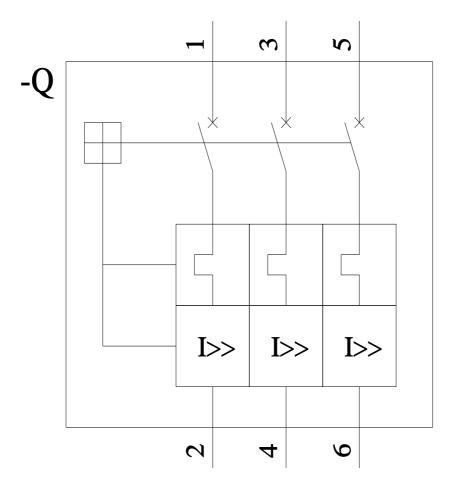
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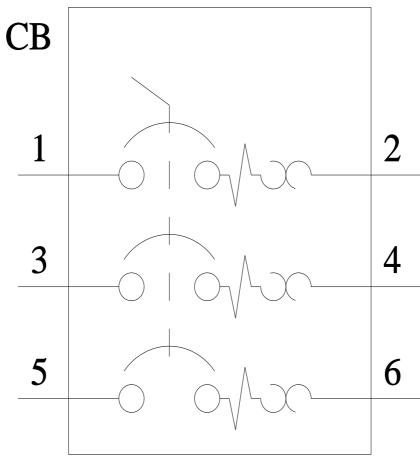












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