SIEMENS

Data sheet

3VA5110-6EC36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=100A overload protection Ir=100A fixed short-circuit protection Ii=5...10 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 Type)	Yes			
design of the load switch / according to UL 489 / High- Intensity-Discharge circuit breaker (HID Type)	No			
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	22.8 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	7.6 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	0.951 kg			
Current				
marking / according to UL 489 / 100%-rated breaker	No			
operational current				
• at 40 °C	100 A			
● at 45 °C	98 A			
● at 50 °C	95 A			
• at 55 °C	93 A			
• at 60 °C	91 A			
● at 65 °C	89 A			
● at 70 °C	87 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				
Switching capacity according to UL 489	in the last chapter				
breaking capacity according to be 400					
• at 240 V	150 kA				
• at 480 V	65 kA				
• at 600 Y/347 V	25 kA				
Adjustable parameters					
product feature / for L-tripping / selectable characteristic	No				
function type of value list setting current (Ir) / for L-tripping / with I2t	Fest				
characteristic reference value setting current (Ir) / for L-tripping / with I2t	x In				
characteristic set values setting current (Ir) / for L-tripping / with I2t	1				
characteristic adjustable response factor setting current (Ir) / for L-	1				
tripping / with I2t characteristic / minimum adjustable response factor setting current (Ir) / for L-	1				
tripping / with I2t characteristic / maximum adjustable response value setting current (Ir) / of the L-trip	100 A				
/ with I2t characteristic / minimum adjustable response value setting current (Ir) / of the L-trip	100 A				
/ with I2t characteristic / maximum type of value list delay time (tr) / for L-tripping / with I2t	Fest				
characteristic reference value delay time (tr) / for L-tripping / with I2t	S				
characteristic set values delay time (tr) / for L-tripping / with I2t	1				
characteristic adjustable response value delay time (tr) / for L-tripping / with l2t characteristic / minimum	1 s				
adjustable response value delay time (tr) / for L-tripping / with l2t 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 (Ii) / for I-tripping	5;6;7;8;9;10				
adjustable response factor setting current (li) / for l- tripping / minimum	5				
adjustable response factor setting current (li) / for l- tripping / maximum	10				
adjustable response value setting current (li) / for I-tripping / minimum	500 A				
adjustable response value setting current (li) / for I-tripping / maximum	1 000 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_100A_TM2_SuMuH_uT				
tripping characteristic / of the upper tolerance band	AK_3VA5_1_100A_TM2_SuMuH_oT				
let-through energy characteristic / at 240 V	DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V				
let-through energy characteristic / at 415 V let-through energy characteristic / at 690 V	DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_690V				

tripping characteristic	ng current (li) / for l-tripping / of the let-through current	St DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V			
	: / of the let-through current	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V			
characteristic / at 415 tripping characteristic characteristic / at 690	/ of the let-through current	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_690V			
	value current / lg min.	100 A			
	0	100 A			
	sponse value current / of the current- elease / full-scale value	100 A			
•	on / tripping switchable / I2t=ON/OFF	No			
Mechanical Design					
product component					
 undervoltage re 	elease	No			
 voltage trigger 		No			
 trip indicator 		No			
height [in]		5.51 in			
Height		140 mm			
width [in]		3 in			
Type of connectable	conductor cross-section, round	1 x (8 AWG - 3/0)			
conductor terminal, s	tranded				
Width		76.2 mm			
depth [in]		3.01 in			
depth		76.5 mm			
Connections					
arrangement of electic	rical connectors / for main current	Front connection			
	nection / for main current circuit	circular conductor terminal or	n both sides		
Auxiliary circuit					
	te (fer euvilier) eesteste	0			
	cts / for auxiliary contacts	0			
Accessories					
product extension / o	ptional / motor drive	Yes			
Environmental condit	tions				
protection class IP / c	on the front	IP40			
ambient temperature					
 during operatio 	n / minimum	-25 °C			
 during operatio 		70 °C			
 during storage 		-40 °C			
 during storage 		-40°C			
0 0		80 0			
Certificates					
combat vessels) / sup	•	Yes			
General Product Ap	oproval				
Confirmation			\wedge	Miscellaneous	
	(CCC) (UL)	(ŲL)	DE		
	CCC UL	ÜL	VDE		
EMC	Declaration of Conformity	Marine / Shipping		other	
	Deciditation of contonnity	indinio / empping		ounor	
^				Miscellaneous	
	ςς UK	Start up 1		Miscellaneous	
<u></u>		1. 200			
RCM	EG-Konf.	ABS	RMRS		
Further information					
Information- and Downloadcenter (Catalogs, Brochures,)					
	com/lowvoltage/catalogs	,			
Industry Mall (Onlin					
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5110-6EC36-1AA0					

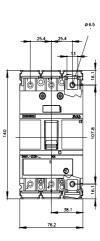
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5110-6EC36-1AA0

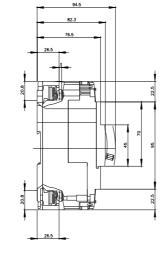
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5110-6EC36-1AA0

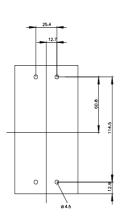
CAx-Online-Generator

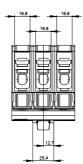
http://www.siemens.com/cax Tender specifications

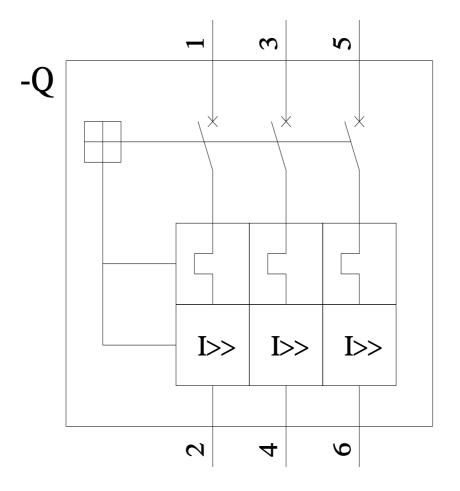
http://www.siemens.com/specifications

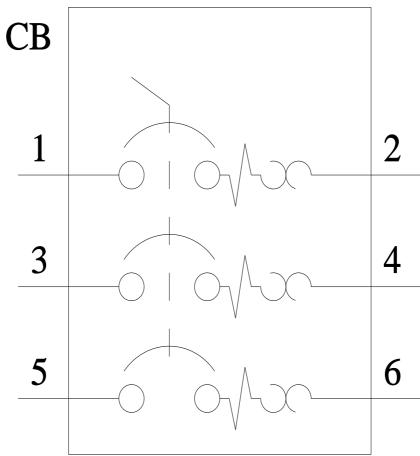












last modified:

7/14/2022 🖸