SIEMENS

Data sheet

3VA5150-6EC36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM230, FTAM, In=50A overload protection Ir=50A 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)	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	12 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4 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	50 A	
• at 45 °C	49 A	
• at 50 °C	48 A	
• at 55 °C	47 A	
• at 60 °C	46 A	
● at 65 °C	45 A	
at 70 °C	44 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 in the last chapter
witching 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
djustable parameters	
product feature / for L-tripping / selectable characteristic function	No
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 (lr) / of the L-trip / with I2t characteristic / minimum	50 A
adjustable response value setting current (lr) / of the L-trip / with I2t characteristic / maximum	50 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 l2t 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 l-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 l-tripping / minimum	250 A
adjustable response value setting current (li) / for l-tripping / maximum	500 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_50A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_50A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_50A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_50A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_50A_TM_line u starter_3u4p_690V

type of value list setting current (li) / for I-tripping	St
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_50A_TM_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_50A_TM_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_50A_TM_line u starter_3u4p_690V
Adjustable response value current / lg min.	35 A
adjustable current response value current / of the current- dependent overload release / full-scale value	50 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
product component	

Ground fault protection / tripping switchable / I2t=ON/OFF	No	
Mechanical Design		
product component		
 undervoltage release 	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 conductor terminal, stranded	1 x (8 AWG - 3/0)	
Width	76.2 mm	
depth [in]	3.01 in	
depth	76.5 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Front connection	
type of electrical connection / for main current circuit	circular conductor terminal on both sides	
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		
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes	
General Product Approval		

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Confirmation







Miscellaneous

EMC Declaration of Conformity Marine / Shipping other











Miscellaneous

Further informatior

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=3VA5150-6EC36-1AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5150-6EC36-1AA0

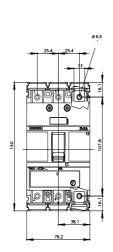
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3VA5150-6EC36-1AA0

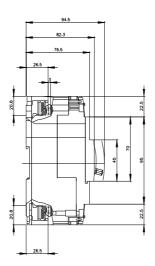
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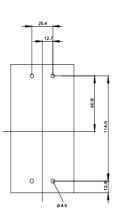
http://www.siemens.com/cax

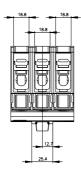
Tender specifications

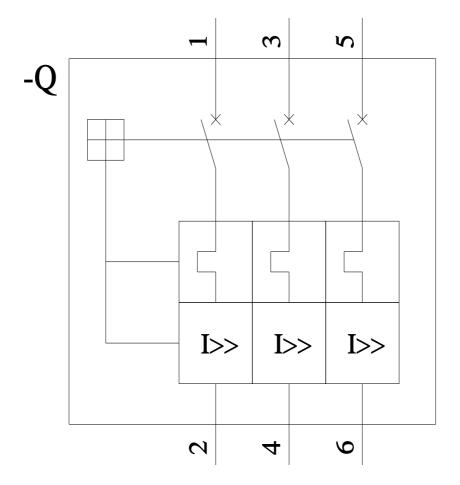
http://www.siemens.com/specifications

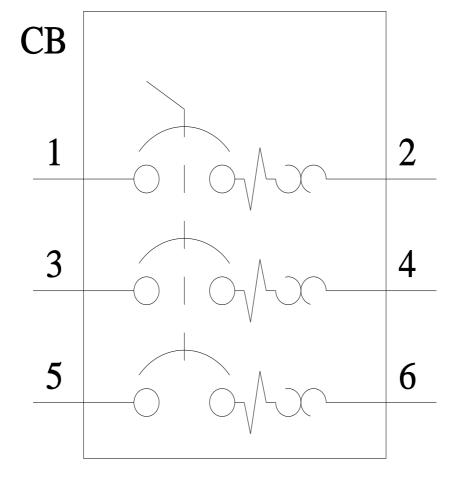












last modified: 7/15/2022 🖸