SIEMENS

Data sheet

3VA5160-6ED36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM210, FTFM, In=60A overload protection Ir=60A fixed short-circuit protection Ii=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	TM210
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	15.4 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	5.13 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	60 A
• at 45 °C	59 A
• at 50 °C	58 A
• at 55 °C	57 A
• at 60 °C	56 A
• at 65 °C	55 A
• at 70 °C	54 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
5	circuit breaker device manual; link to be found under Service & Support
	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	
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 (Ir) / of the L-trip / with I2t characteristic / minimum	60 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	60 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 l2t 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	No
reference value setting current (li) / for I-tripping	x In
set values setting current (li) / for I-tripping	10
adjustable response factor setting current (li) / for l- tripping / minimum	10
adjustable response factor setting current (li) / for l- tripping / maximum	10
adjustable response value setting current (li) / for I-tripping / minimum	600 A
adjustable response value setting current (li) / for I-tripping / maximum	600 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 ln
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_60A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_60A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_60A_TM_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_60A_TM_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_60A_TM_line u starter_3u4p_690V

Marine / Shipping other	ABS BUREAU DNV VERITAS
A UK CE	
EMC Declaration of Conformity	Marine / Shipping
ccc UL	UL VDE
Confirmation	Miscellaneous
combat vessels) / supplement SB General Product Approval	
certificate of suitability / as approval for NAVAL (no	Yes
during storage / maximum Certificates	80 °C
 during operation / maximum during storage / minimum 	70 °C -40 °C
during operation / minimum	-25 °C
ambient temperature	
protection class IP / on the front	IP40
Environmental conditions	
Accessories product extension / optional / motor drive	Yes
number of CO contacts / for auxiliary contacts	0
Auxiliary circuit	
type of electrical connection / for main current circuit	circular conductor terminal on both sides
arrangement of electrical connectors / for main current circuit	Front connection
	Front connection
Connections	76.5 11111
depth [in] depth	3.01 in 76.5 mm
Width	76.2 mm
conductor terminal, stranded	
width [in] Type of connectable conductor cross-section, round	3 in 1 x (8 AWG - 3/0)
Height	140 mm
height [in]	5.51 in
trip indicator	No
voltage trigger	No
undervoltage release	No
product component	
Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design	No
dependent overload release / full-scale value	
Adjustable response value current / Ig min. adjustable current response value current / of the current-	60 A
characteristic / at 690 V	42 A
characteristic / at 415 V tripping characteristic / of the let-through current	DS_3VA5_1_60A_TM_line u starter_3u4p_690V
tripping characteristic / of the let-through current	DS_3VA5_1_60A_TM_line u starter_3u4p_415V
type of value list setting current (li) / for I-tripping tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_60A_TM_line u starter_3u4p_240V
	Fest





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=3VA5160-6ED36-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5160-6ED36-1AA0

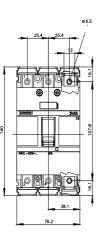
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5160-6ED36-1AA0

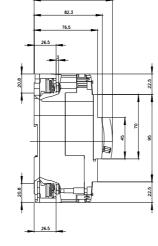
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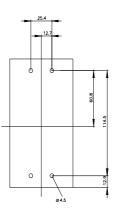
http://www.siemens.com/cax

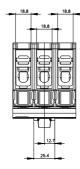
Tender specifications

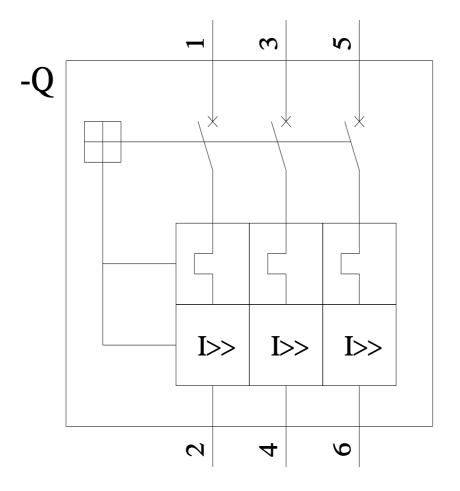
http://www.siemens.com/specifications

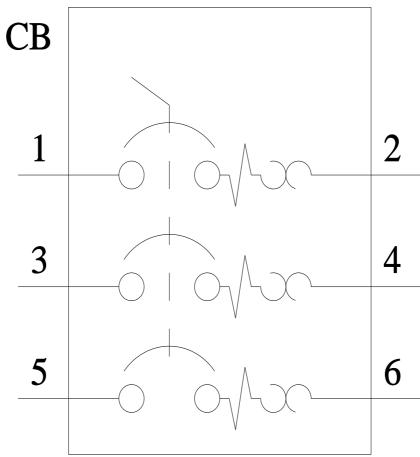












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