SIEMENS

Data sheet

Model

3VA5135-4ED16-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277 V 1-pole, line protection TM210, FTFM, In=35A overload protection Ir=35A 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	SEAM
Product version	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR	Yes
Type)	
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	TM210
protection function of the overcurrent release	LI
number of poles	1
General technical data	
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	3.8 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3.8 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	0.398 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	35 A
● at 45 °C	34 A
● at 50 °C	34 A
• at 55 °C	33 A
• at 60 °C	33 A
• at 65 °C	32 A
● at 70 °C	32 A

witching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
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	and the complete
breaking capacity current	
• at 120 V	65 kA
● at 277 V	25 kA
• at 347 V	14 kA
djustable parameters	
	All
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	35 A
adjustable response value setting current (Ir) / of the L-trip / with l2t characteristic / maximum	35 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	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 l-tripping / minimum	350 A
adjustable response value setting current (li) / for l-tripping / maximum	350 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 / maximum tripping characteristic / of the lower tolerance band	AK_3VA5_1_35A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_35A_TM2_SuMuH_oT
•	
let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V	DE_3VA5_1_35A_TM210_line_1p_240V DE_3VA5_1_35A_TM210_line_1p_415V
iot-unrough chorgy characteristic / at +15 V	PF_04V0_1_00V_11/1510_11116_1h_4104

tripping characteristic / of the let-through current DS_3VA5_1_35A_TM210_line_1p_240V characteristic / at 240 V tripping characteristic / of the let-through current DS_3VA5_1_35A_TM210_line_1p_415V characteristic / at 415 V Adjustable response value current / lg min. 35 A adjustable current response value current / of the current-35 A dependent overload release / full-scale value Ground fault protection / tripping switchable / I2t=ON/OFF No **Mechanical Design** product component • undervoltage release No voltage trigger No trip indicator Nο height [in] 5.51 in Height 140 mm width [in] Type of connectable conductor cross-section, round 1 x (8 AWG - 3/0) conductor terminal, stranded Width 25.4 mm depth [in] 3.01 in depth 76.5 mm arrangement of electrical connectors / for main current Front connection type of electrical connection / for main current circuit circular conductor terminal on both sides **Auxiliary circuit** 0 number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive No **Environmental conditions** protection class IP / on the front IP40 ambient temperature -25 °C • during operation / minimum • during operation / maximum 70 °C -40 °C • during storage / minimum 80 °C • during storage / maximum certificate of suitability / as approval for NAVAL (no Yes combat vessels) / supplement SB **Declaration of General Product Approval EMC** Conformity



Confirmation



Miscellaneous





Declaration of Conformity

Marine / Shipping













other

Miscellaneous

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=3VA5135-4ED16-1AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5135-4ED16-1AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

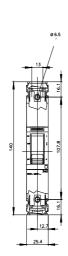
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5135-4ED16-1AA0

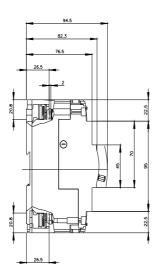
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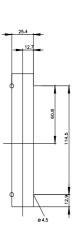
http://www.siemens.com/cax

Tender specifications

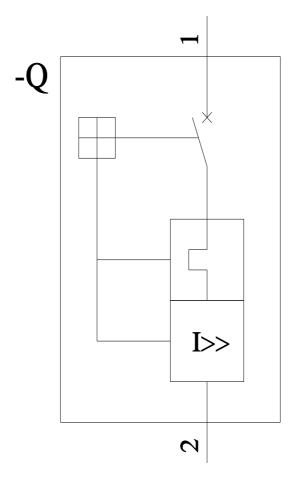
http://www.siemens.com/specifications

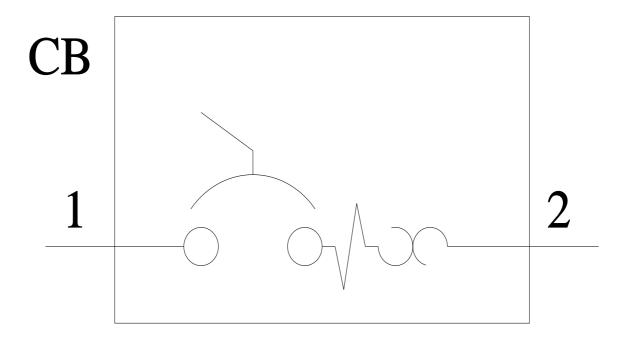












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