## SIEMENS

## Data sheet

## 3VA5135-4ED36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 3-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 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	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	11.4 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	
<ul> <li>communication function</li> </ul>	No
<ul> <li>other measurement function</li> </ul>	No
Net Weight	0.934 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

Switching 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	
Switching capacity according to UL 489		
breaking capacity current		
• at 240 V	65 kA	
• at 480 V	25 kA	
• at 600 Y/347 V	14 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	35 A	
adjustable response value setting current (Ir) / of the L-trip / with I2t 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 I-tripping / minimum	350 A	
adjustable response value setting current (li) / for I-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 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	DE_3VA5_1_35A_TM_line u starter_3u4p_240V	
let-through energy characteristic / at 415 V	DE_3VA5_1_35A_TM_line u starter_3u4p_415V	
let-through energy characteristic / at 690 V	DE_3VA5_1_35A_TM_line u starter_3u4p_690V	

tripping characteristic / of the let-through current	Fest DS_3VA5_1_35A_TM_line u starter	3u4p 240V	
characteristic / at 240 V tripping characteristic / of the let-through current	DS_3VA5_1_35A_TM_line u starter_3u4p_415V		
characteristic / at 415 V	DS_3VA5_1_35A_TM_line u starter_3u4p_690V		
tripping characteristic / of the let-through current characteristic / at 690 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	INO		
product component <ul> <li>undervoltage release</li> </ul>	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 / antisact / mater drive			
product extension / optional / motor drive	Yes		
Environmental conditions	Yes		
	IP40		
Environmental conditions	IP40		
Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum	IP40 -25 °C		
Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum	IP40 -25 °C 70 °C		
Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum	IP40 -25 °C 70 °C -40 °C		
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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=3VA5135-4ED36-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5135-4ED36-1AA0

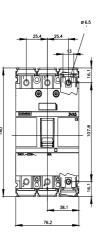
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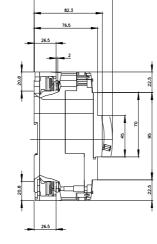
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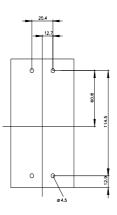
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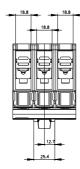
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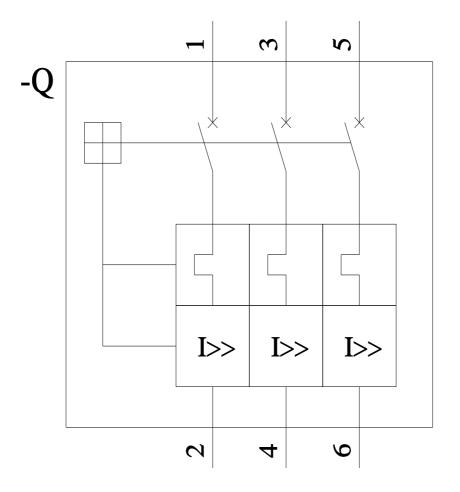
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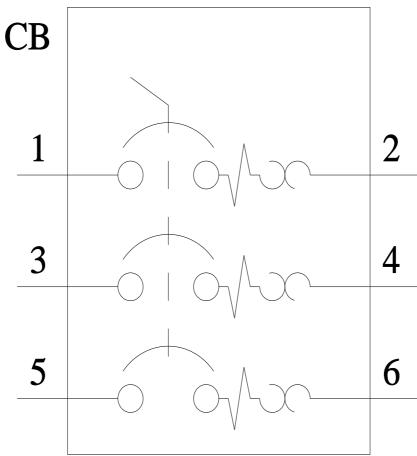












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