## SIEMENS

## Data sheet

## 3VA5135-4EC36-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 3-pole, line protection TM230, FTAM, In=35A overload protection Ir=35A fixed short-circuit protection Ii=5...10 x In cable connection on both sides

Model		
product brand name	SENTRON	
product designation	Molded-case circuit breaker	
product designation / according to UL file	SEAS	
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		
insulation voltage / rated value	800 V	
Max. rated operational voltage Ue with DC	500 V	
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	1.017 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		
breaking capacity maximum short-circuit current (Icu)			
• at 240 V	55 kA		
• at 415 V	36 kA		
● at 690 V	5 kA		
breaking capacity operating short-circuit current (lcs)			
• at 240 V	85 kA		
• at 415 V	36 kA		
● at 690 V	5 kA		
short-circuit current making capacity (Icm)			
• at 240 V	121 kA		
• at 415 V	75.6 kA		
• at 690 V	7.5 kA		
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	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	4		
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	1s		
product feature / for S-tripping / independent of direction / selectable characteristic function	No		
product feature / for I-tripping / can be switched on/off design of I-trip / adjustable	No Yes		
reference value setting current (li) / for I-tripping	x In		
set values setting current (li) / 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 I- tripping / maximum	10		
adjustable response value setting current (li) / for I-tripping / minimum	175 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 $_3u4p _690V$			
type of value list setting current (li) / for I-tripping				
tripping characteristic / of the let-through current characteristic / at 240 V	St DS_3VA5_1_35A_TM_line u starter_3u4p_240V			
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_35A_TM_line u starter_3u4p_415V			
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_35A_TM_line u	ı starter_3u4p_690V		
Adjustable response value current / Ig min.	35 A			
adjustable current response value current / of the current- dependent overload release / full-scale value	35 A			
Ground fault protection / tripping switchable / I2t=ON/OFF	No			
Mechanical Design				
product component				
<ul> <li>undervoltage release</li> </ul>	No			
<ul> <li>voltage trigger</li> </ul>	No			
<ul> <li>trip indicator</li> </ul>	No			
height [in]	5.51 in			
Height	140 mm			
width [in]	3 in			
Type of connectable conductor cross-section, round	1 x (14 AWG - 8 AWG)			
conductor terminal, stranded				
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 o	n 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			
protection class IP / on the front ambient temperature	IP40			
protection class IP / on the front ambient temperature • during operation / minimum	IP40 -25 °C			
ambient temperature				
<ul><li>ambient temperature</li><li>during operation / minimum</li></ul>	-25 °C			
ambient temperature • during operation / minimum • during operation / maximum	-25 °C 70 °C			
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum	-25 °C 70 °C -40 °C			
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	-25 °C 70 °C -40 °C			
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum Certificates	-25 °C 70 °C -40 °C 80 °C	EMC	Declaration of Conformity	
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum Certificates reference code / according to IEC 81346-2 General Product Approval	-25 °C 70 °C -40 °C 80 °C Q	EMC	Declaration of Conformity	
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum Certificates reference code / according to IEC 81346-2	-25 °C 70 °C -40 °C 80 °C	EMC		
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum Certificates reference code / according to IEC 81346-2 General Product Approval	-25 °C 70 °C -40 °C 80 °C Q	EMC		
ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum Certificates reference code / according to IEC 81346-2 General Product Approval	-25 °C 70 °C -40 °C 80 °C Q	EMC EMC		

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Declaration of Conformity	Marine / Shipping		other	
UK		$\bigcirc$	<u>Miscellaneous</u>	

## Further information

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=3VA5135-4EC36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5135-4EC36-0AA0

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

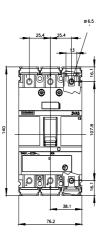
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5135-4EC36-0AA0

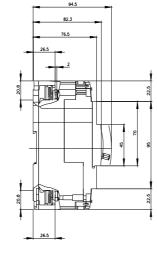
CAx-Online-Generator

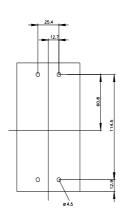
http://www.siemens.com/cax

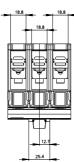
Tender specifications

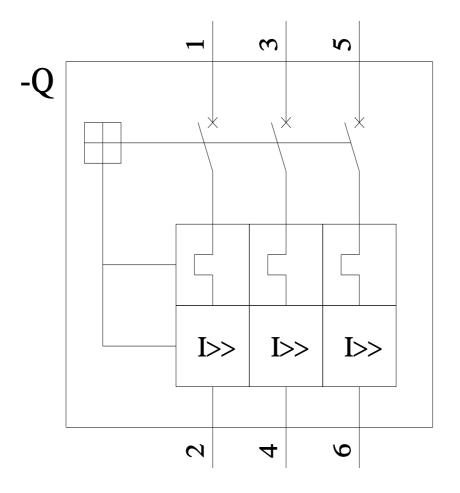
http://www.siemens.com/specifications

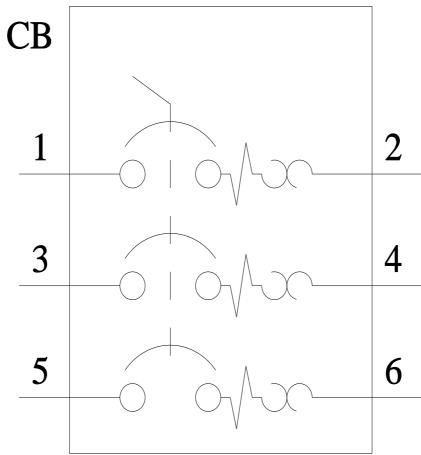












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