## SIEMENS

## Data sheet

## 3VA5135-4ED22-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 2-pole, line protection TM210, FTFM, In=35A overload protection Ir=35A fixed short-circuit protection Ii=10 x In nut keeper kit 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	TM210		
protection function of the overcurrent release	LI		
number of poles	2		
General technical data			
rated insulation voltage Ui	600 V		
Max. rated operational voltage Ue with DC	250 V		
operating voltage / at AC / rated value	415 V		
power loss [W] / maximum	7.6 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	0.669 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 breake	r	S			
breaking capacity maximum short-circuit curr					
• at 240 V		55 kA			
• at 415 V		36 kA			
breaking capacity operating short-circuit curr	ent (Ics)				
• at 240 V		55 kA	55 kA		
• at 415 V		36 kA	36 kA		
short-circuit current making capacity (lcm)					
• at 240 V			121 kA		
• at 415 V		75.6 k			
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	5 kA		
• at 600 Y/347 V		14 kA			
Adjustable parameters					
Adjustable response value current / Ig min.		35 A			
Adjustable response value current / Ig min.		35 A			
Ground fault protection / tripping switchable /	I2t=ON/OFF	No	No		
Mechanical Design					
height [in]		5.51 i	n		
Height		140 m	ım		
width [in]		2 in			
Width		50.8 r	nm		
depth [in]		3.01 in			
depth		76.5 r	nm		
Connections					
arrangement of electrical connectors / for ma circuit		Front	connection		
type of electrical connection / for main currer			eper kit on both ends		
Type of connectable conductor cross-section screw, width x thickness , min.	, 	12 x 1 mm			
Type of connectable conductor cross-section screw, width x thickness , max.	, connection	17 x 6.5 mm			
Auxiliary circuit					
product component					
<ul> <li>undervoltage release</li> </ul>		No			
voltage trigger		No			
• trip indicator		No			
number of CO contacts / for auxiliary contact	S	0			
Accessories					
product extension / optional / motor drive		No			
Environmental conditions			_		
protection class IP / on the front		IP40			
ambient temperature		25 °C			
during operation / minimum		-25 °C			
during operation / maximum		70 °C			
during storage / minimum			-40 °C		
during storage / maximum		80 °C			
Certificates		0			
reference code / according to IEC 81346-2	FMC	Q	Marine (OL)		
General Product Approval	EMC		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=3VA5135-4ED22-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5135-4ED22-0AA0

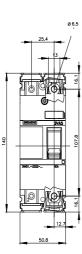
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5135-4ED22-0AA0

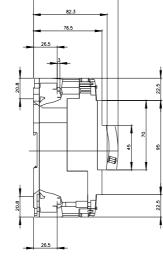
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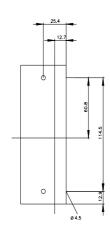
http://www.siemens.com/cax

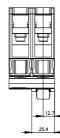
**Tender specifications** 

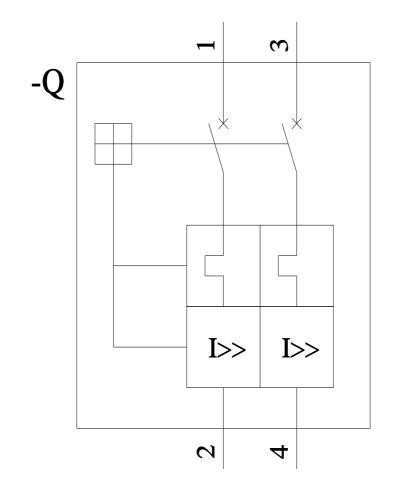
http://www.siemens.com/specifications

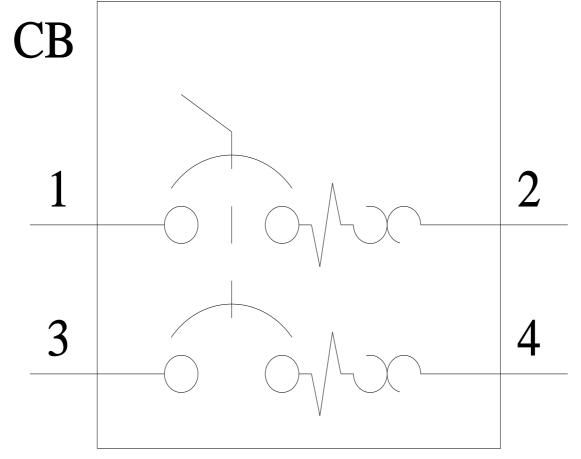












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