SIEMENS

Data sheet

3VA5135-5EC36-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=35A overload protection Ir=35A fixed short-circuit protection li=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	MEAS			
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				
• communication function	No			
 other measurement function 	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			

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at 65 °C at 70 °C	32 A 32 A		
Switching capacity according to IEC 60947	32 A		
switching capacity class of the circuit breaker	M		
breaking capacity maximum short-circuit current (Icu)			
• at 240 V	85 kA		
• at 415 V	55 kA		
• at 690 V	7 kA		
breaking capacity operating short-circuit current (lcs)			
• at 240 V	85 kA		
• at 415 V	55 kA		
at 690 V Abort direvit current making canacity (lam)	5 kA		
short-circuit current making capacity (lcm) • at 240 V	187 kA		
• at 415 V	121 kA		
• at 690 V	11.9 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	in the last enapter		
breaking capacity current			
• at 240 V	85 kA		
● at 480 V	35 kA		
• at 600 Y/347 V	18 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	Yes		
reference value setting current (li) / for I tripping	x In		
set values setting current (li) / for I-tripping adjustable response factor setting current (li) / for I-tripping / minimum	5;6;7;8;9;10 5		
adjustable response factor setting current (li) / for l-tripping / maximum	10		
adjustable response value setting current (li) / for l-tripping / minimum	175 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 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	St			
tripping characteristic / of the let-through current characteristic / at 240 V	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 starter_3u4p_690V		
Adjustable response value current / lg min.	35 A			
adjustable current response value current / of the current-	35 A			
dependent overload release / full-scale value	No			
Ground fault protection / tripping switchable / I2t=ON/OFF	No			
Mechanical Design				
product component				
undervoltage release	No			
voltage trigger Asia in disease.	No No			
• trip indicator	No			
height [in]	5.51 in			
Height width [in]	140 mm			
Type of connectable conductor cross-section, round	3 in 1 x (14 AWG - 8 AWG)			
conductor terminal, stranded	1 X (14 AWG - 0 AWG)			
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 / optional / motor drive	Yes			
Environmental conditions	163	_		
	ID40			
protection class IP / on the front	IP40			
ambient temperature	-25 °C			
 during operation / minimum during operation / maximum 	-25 ℃ 70 °C			
during operation? maximum during storage / minimum	-40 °C			
during storage / maximum during storage / maximum	80 °C			
Certificates				
	Q			
reference code / according to IEC 81346-2	Q		Declaration of	
General Product Approval		EMC	Declaration of Conformity	
<u>Confirmation</u>	<u>Miscellaneous</u>	$\langle \hat{c} \rangle$	$C \in$	









Declaration of Conformity

Marine / Shipping

other







Miscellaneous

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=3VA5135-5EC36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5135-5EC36-0AA0

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

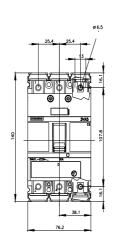
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5135-5EC36-0AA0

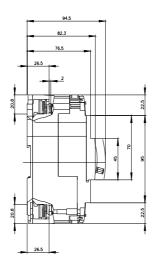
CAx-Online-Generator

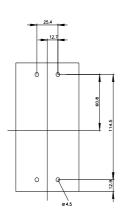
http://www.siemens.com/cax

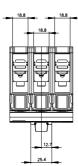
Tender specifications

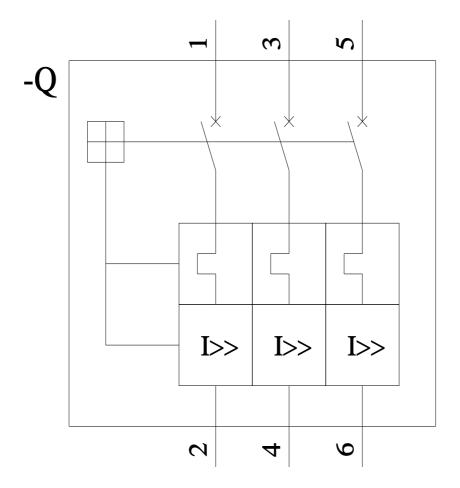
http://www.siemens.com/specifications

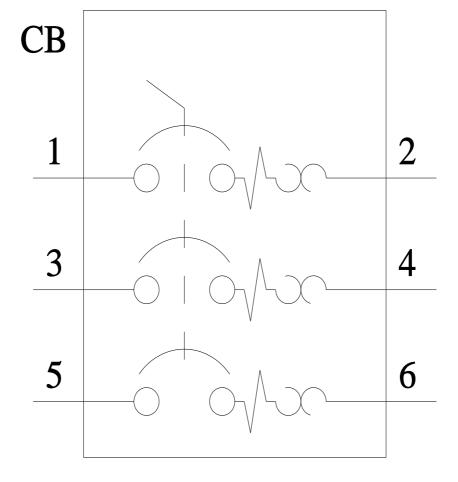












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