SIEMENS

Data sheet

3VA5135-6EC36-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 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	HEAS			
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	1.031 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	Н
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (lcs)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
 short-circuit current making capacity (lcm) at 240 V 	330 kA
• at 415 V	154 kA
• at 690 V	17 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case
design of short circuit protection	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	150 kA
● at 480 V	65 kA
• at 600 Y/347 V	25 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 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 l- 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
	St
type of value list setting current (InN) / for N-tripping	
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- dependent overload release / full-scale value	35 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
product component	
undervoltage release	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	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	Front connection
circuit type of electrical connection / for main current circuit	circular conductor terminal on both sides
Auxiliary circuit	
	0
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
during operation / minimum	-25 °C
during operation / maximum	70 °C
during storage / minimum	-40 °C
during storage / maximum	80 °C
Certificates	
reference code / according to IEC 81346-2	Q
	Declaration of
General Product Approval	EMC Conformity
	Miscellaneous
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CCC VDE	RCM C

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Declaration of Conformity	Marine / Shipping	other
CE EG-Konf.	ABS	<u>Miscellaneous</u>

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=3VA5135-6EC36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5135-6EC36-0AA0

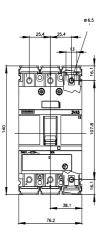
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5135-6EC36-0AA0

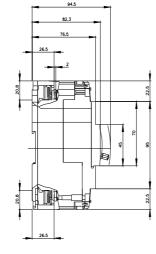
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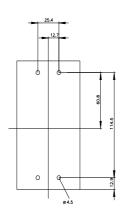
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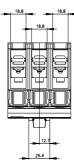
Tender specifications

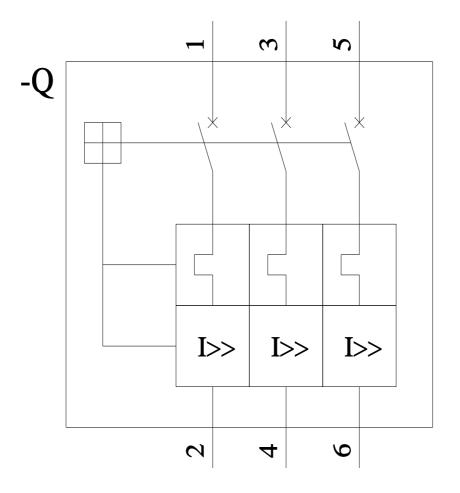
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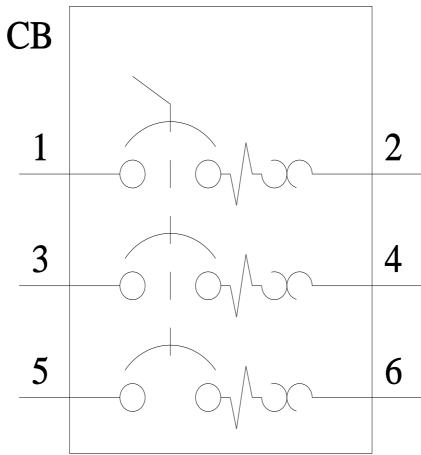












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