3VA1225-1AA32-0AA0

Data sheet



switch disconnector 3VA1 IEC frame 250 3-pole SD100, In=250A without overload protection w/o short-circuit protection nut keeper kit

product designation Switch disconnector Product version In MCCB design number of poles design of the auxiliary release without Auxiliary contact version Without General technical data rated insulation voltage U B800 V Max. rated operational voltage Ue with DC 500 V power loss [W] / maximum 57 W mechanical service life (switching cycles) / typical 15 000 product function / communication function No Current • at 40 °C 250 A • at 50 °C 250 A • at 50 °C 243 A • at 60 °C 223 A • at 60 °C 223 A Wechanical Dosign Height 158 mm Width 105 mm Gennections arrangement of electrical connectors / for main current circuit design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release • voltage friger	Model	
product designation Switch disconnector in MCCB design number of poles 3 design of the auxiliary release without Without MCB design of the auxiliary release without Without MCB design of the auxiliary release without Without MCB design of the auxiliary release without MCB design of the auxiliary release without MCB design of the auxiliary release without MCB design of the surface / or the connections / or main current circuit design of the surface / of the connections / or the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the sw	product brand name	SENTRON
Product version In MCCB design	product designation	Switch disconnector
number of poles design of the auxiliary release Auxiliary contact version Without General technical data rated insulation voltage Ui Max. rated operational voltage Ue with DC power loss [W] / maximum mechanical service life (switching cycles) / typical product function / communication function Current Operational current • at 40 °C • at 45 °C • at 55 °C • at 55 °C • at 55 °C • at 50 °C • at 60 °C • at 70 °C 223 A Mechanical Design Height Width 158 mm Width 105 mm Connections arrangement of electrical connectors / for main current circuit design of the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 1, 2, 4, 6) Auxiliary circuit product component • undervoltage release No		in MCCB design
Auxiliary contact version General technical data rated insulation voltage Ui Max. rated operational voltage Ue with DC power loss [W] / maximum mechanical service life (switching cycles) / typical product function / communication function No Current operational current • at 40 °C • at 45 °C • at 45 °C • at 50 °C • at 50 °C • at 66 °C • at 66 °C • at 70 °C • at 70 °C • at 70 °C contactions Mechanical Design Height Midth 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) days in the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) Auxiliary circuit product component • undervoltage release No	number of poles	
Auxiliary contact version General technical data rated insulation voltage Ui Max. rated operational voltage Ue with DC power loss [W] / maximum mechanical service life (switching cycles) / typical product function / communication function No Current operational current • at 40 °C • at 45 °C • at 45 °C • at 50 °C • at 50 °C • at 66 °C • at 66 °C • at 70 °C • at 70 °C • at 70 °C contactions Mechanical Design Height Midth 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) days in the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) Auxiliary circuit product component • undervoltage release No	design of the auxiliary release	without
rated insulation voltage Ui Max. rated operational voltage Ue with DC power loss [W] / maximum product function / communication function Current operational current • at 40 °C • at 45 °C • at 45 °C • at 55 °C • at 66 °C • at 66 °C • at 66 °C • at 70 °C • at 70 °C Height Height 158 mm Wordth depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) day in the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) Auxiliary circuit product component • undervoltage release No	Auxiliary contact version	Without
Max. rated operational voltage Ue with DC power loss [W] / maximum mechanical service life (switching cycles) / typical product function / communication function Current operational current • at 40 °C • at 50 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C • at 60 °C • at 65 °C • at 60 °C • at 65 °C • at 60 °C • at 6	General technical data	
power loss [W] / maximum 57 W mechanical service life (switching cycles) / typical 15 000 product function / communication function No Current operational current • at 40 °C 250 A • at 45 °C 250 A • at 55 °C 250 A • at 65 °C 237 A • at 65 °C 237 A • at 65 °C 237 A • at 70 °C 223 A Mechanical Design Height 158 mm Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release	rated insulation voltage Ui	800 V
mechanical service life (switching cycles) / typical product function / communication function No Current operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 65 °C • at 66 °C • at 70 °C • at 70 °C Mechanical Design Height Width 105 mm depth 70 mm Connections arrangement of electrical connections / for main current circuit type of electrical connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	Max. rated operational voltage Ue with DC	500 V
product function / communication function Current operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 55 °C • at 60 °C • at 65 °C • at 70 °C 233 A • at 70 °C Mechanical Design Height 158 mm Width depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	power loss [W] / maximum	57 W
Operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C • at 65 °C • at 70 °C • at 70 °C Mechanical Design Height Height 158 mm Width depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	mechanical service life (switching cycles) / typical	15 000
operational current • at 40 °C • at 45 °C • at 45 °C • at 50 °C • at 50 °C • at 65 °C • at 65 °C • at 65 °C • at 70 °C Mechanical Design Height 158 mm Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	product function / communication function	No
at 40 °C at 45 °C at 45 °C 250 A at 50 °C 250 A at 55 °C 243 A at 60 °C 237 A at 65 °C 233 A Mechanical Design Height 158 mm Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component undervoltage release No	Current	
at 45 °C at 50 °C at 55 °C 250 A at 60 °C 237 A at 65 °C 230 A at 70 °C 233 A Mechanical Design Height 158 mm Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component undervoltage release No	operational current	
at 50 °C at 55 °C at 60 °C at 60 °C at 60 °C at 60 °C at 70 °C at 70 °C Mechanical Design Height 158 mm Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxilliary circuit product component uat 65 °C 230 A 243 A 243 A 243 A 245 A 250 A 260 A 270 A 280 A 281 A 292 A Mechanical Design 158 mm 70 mm Front terminal silver Front terminal silver Silver Silver Silver Of the surface / of the connections / on the bottom of the switch (N, 1, 3, 5) Auxilliary circuit product component undervoltage release No	• at 40 °C	250 A
at 55 °C at 60 °C at 65 °C at 70 °C 230 A at 70 °C 223 A Mechanical Design Height 158 mm Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component undervoltage release No	● at 45 °C	250 A
at 60 °C at 65 °C at 70 °C 230 A eat 70 °C 223 A Mechanical Design Height 158 mm Width 105 mm depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component e undervoltage release No	● at 50 °C	250 A
 at 65 °C at 70 °C 223 A Mechanical Design Height 158 mm Width 105 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component undervoltage release No No 	● at 55 °C	243 A
● at 70 °C Mechanical Design Height 158 mm Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component ● undervoltage release No	• at 60 °C	237 A
Height 158 mm Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit busbar connection design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	• at 65 °C	230 A
Height Width 105 mm 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release 158 mm 105 mm Front terminal busbar connection silver Silver	● at 70 °C	223 A
Width 105 mm depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit busbar connection design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	Mechanical Design	
depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit busbar connection design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	Height	158 mm
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release Front terminal Silver Silver	Width	105 mm
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release Front terminal Silver Silver	depth	70 mm
type of electrical connection / for main current circuit design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	Connections	
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No		Front terminal
the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No	type of electrical connection / for main current circuit	busbar connection
of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release No		silver
product component • undervoltage release No		Silver
• undervoltage release No	Auxiliary circuit	
	product component	
• voltage trigger No	 undervoltage release 	No
	 voltage trigger 	No

 undervoltage release with leading contact 	No		
• trip indicator	No		
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 / acc. to IEC 81346-2	Q		
General Product Approval		EMC	Declaration of Conformity





Miscellaneous





UK Declaration of Conformity

Declaration	of
Conformity	

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Miscellaneous

Special Test Certificate





other

Miscellaneous

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=3VA1225-1AA32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1225-1AA32-0AA0

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

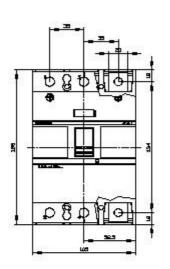
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1225-1AA32-0AA0

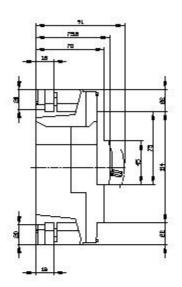
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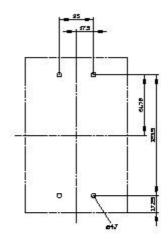
http://www.siemens.com/cax

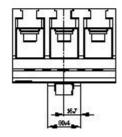
Tender specifications

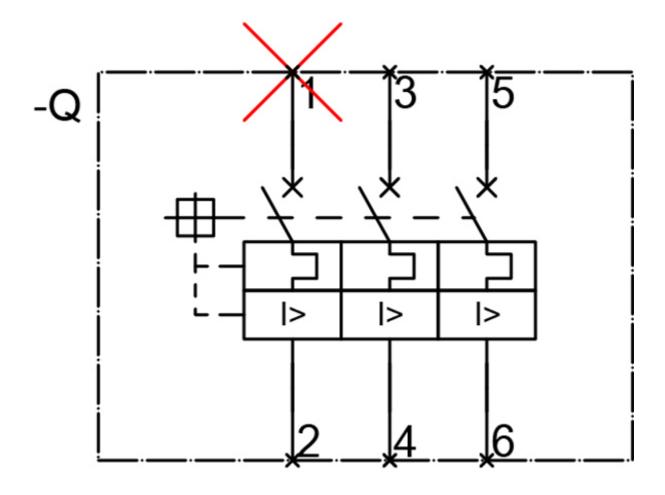
http://www.siemens.com/specifications











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