3VA1225-1AA42-0AA0

## **Data sheet**



switch disconnector 3VA1 IEC frame 250 4-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 Book porduct function / communication function  Oerrational current  • at 40 °C • at 45 °C • at 55 °C • at 45 °C • at 65 °C • at 70 °C • at 70 °C • at 70 °C   Mechanical Design  Height Width 140 mm  Connections 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 trigger  No  Service dissipation  In MCCB design  Without  4800 V  8800 V	Model	
product version in MCCB design number of poles 4 design of the auxiliary release without Muxiliary contact version Without  General technical data rated insulation voltage UI 800 V Max. rated operational voltage Ue with DC 600 V 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 50 °C 250 A • at 50 °C 237 A • at 65 °C 237 A • at 65 °C 238 A  Mechanical Dosign  Height 158 mm  Width 140 mm depth 70 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, 2, 4, 6)  Auxiliary circuit product component • undervoltage release No		SENTRON
Product version   In MCCB design		Switch disconnector
number of poles design of the auxiliary release without  Auxiliary contact version Without  General technical data  rated insulation voltage Ui 800 V  Max. rated operational voltage Ue with DC 600 V  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 55 °C 250 A • at 55 °C 250 A • at 55 °C 250 A • at 60 °C 237 A • at 60 °C 237 A • at 60 °C 230 A • at 70 °C 223 A  Mechanical Design  Height 158 mm  Width 140 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 60 °C • at 70 °C  et at 70 °C  card one communication  Midth  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)  days in the surface / of the connections / on the bottom of the switch (N, 1, 3, 5)  Auxiliary circuit product component • undervoltage release  Moov  Moov  800 V  8	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 60 °C • at 70 °C  et at 70 °C  card one communication  Midth  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)  days in the surface / of the connections / on the bottom of the switch (N, 1, 3, 5)  Auxiliary circuit product component • undervoltage release  Moov  Moov  800 V  8	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 60 °C  • at 66 °C  • at 66 °C  • at 60 °C  • at 70 °C  • at 70 °C   Mochanical 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 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		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 65 °C • at 70 °C  Machanical Design  Height  Height  Uidth  depth  70 mm  Connections  arrangement of electrical connectors / 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, 1, 3, 4, 6)  Auxiliary circuit product component • undervoltage release  No	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 67 °C 223 A  Mechanical Design  Height 158 mm  Width 140 mm  depth 70 mm  Connections  arrangement of electrical connectors / for main current circuit to 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	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 65 °C • at 70 °C • at 70 °C  Mechanical Dosign  Height  Width 140 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	600 V
product function / communication function  Current  operational current  • at 40 °C • at 45 °C • at 55 °C • at 55 °C • at 60 °C • at 65 °C • at 65 °C • at 70 °C  Mechanical Design  Height  Height  158 mm  Width 140 mm  depth 70 mm  Connections  arrangement of electrical connectors / 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  Vesto A  250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 250 A 261 A 262 A 273 A 273 A 274 A 275 A 285 A 286 A 287 A 286 A 287 A 287 A 287 A 287 A 288 A 288 A 288 A 288 A 289 A 28	power loss [W] / maximum	57 W
Operational current  • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 55 °C • at 65 °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 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 60 °C • at 60 °C • at 65 °C • at 70 °C  230 A • at 70 °C  Mechanical Design  Height  158 mm  Width  400 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, 8)  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  wechanical Design  Height 158 mm  Width 40 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)  Auxillary 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 140 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 65 °C at 70 °C   Mechanical Design  Height  158 mm  Width 40 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  undervoltage release  No	● at 40 °C	250 A
<ul> <li>at 55 °C</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>at 70 °C</li> <li>223 A</li> <li>Mechanical Design</li> <li>Height</li> <li>158 mm</li> <li>Width</li> <li>depth</li> <li>70 mm</li> <li>Connections</li> <li>arrangement of electrical connectors / for main current circuit</li> <li>type of electrical connection / for main current circuit</li> <li>design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)</li> <li>design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)</li> <li>Auxiliary circuit</li> <li>product component</li> <li>undervoltage release</li> <li>No</li> </ul>	● at 45 °C	250 A
<ul> <li>at 60 °C</li> <li>at 65 °C</li> <li>at 70 °C</li> <li>223 A</li> </ul> Mechanical Design Height <ul> <li>158 mm</li> <li>Width</li> <li>40 mm</li> </ul> Connections <ul> <li>arrangement of electrical connectors / for main current circuit</li> <li>type of electrical connection / for main current circuit</li> <li>design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)</li> <li>design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)</li> </ul> Auxiliary circuit <ul> <li>product component</li> <li>undervoltage release</li> </ul> No	• at 50 °C	250 A
■ at 65 °C     ■ at 70 °C     223 A    Mechanical Design	● at 55 °C	243 A
● at 70 °C  Mechanical Design  Height  158 mm  Width  140 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 140 mm  depth 70 mm  Connections  arrangement of electrical connectors / 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  158 mm  140 mm  Front terminal  busbar connection  silver  Silver  Silver		230 A
Height  Width  140 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  140 mm  Front terminal  busbar connection  silver  Silver	● at 70 °C	223 A
Width 140 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	140 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  busbar connection  silver  Silver	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	<ul> <li>undervoltage release</li> </ul>	No
	<ul> <li>voltage trigger</li> </ul>	No

<ul> <li>undervoltage release with leading contact</li> </ul>	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			
<ul><li>during operation / minimum</li></ul>	-25 °C		
<ul> <li>during operation / maximum</li> </ul>	70 °C		
<ul><li>during storage / minimum</li></ul>	-40 °C		
<ul> <li>during storage / maximum</li> </ul>	80 °C		
Certificates			
reference code / acc. to IEC 81346-2	Q		
General Product Approval		ЕМС	Declaration of Conformity





**Miscellaneous** 





UK Declaration of Conformity

Declaration	of
Conformity	

**Test Certificates** 

Marine / Shipping

other



Miscellaneous

Special Test Certificate





Miscellaneous

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=3VA1225-1AA42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1225-1AA42-0AA0

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

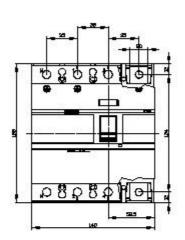
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1225-1AA42-0AA0

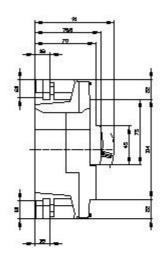
**CAx-Online-Generator** 

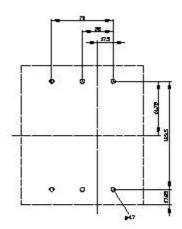
http://www.siemens.com/cax

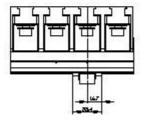
**Tender specifications** 

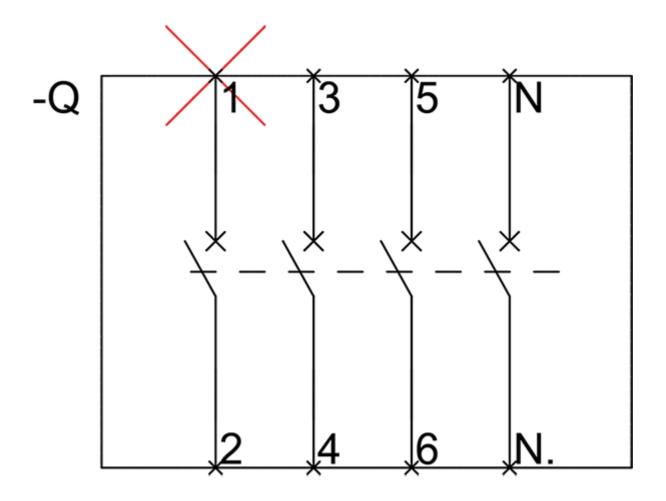
http://www.siemens.com/specifications











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