SIEMENS

Data sheet

3VA1225-4EF42-0AA0



circuit breaker 3VA1 IEC frame 250 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM240, ATAM, In=250A overload protection Ir=175A...250A short-circuit protection Ii=5...10 x In N conductor unprotected nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	Line protection
design of the overcurrent release	TM240
protection function of the overcurrent release	LI
number of poles	4
General technical data	
rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with DC	600 V
power loss [W] / maximum	57 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	19 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	5 400
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	Without
product function	
 communication function 	No
other measurement function	No
net weight	2.099 kg
Current	
Max. rated operational current of the frame size	250 A
Courant permanent assigné lu	250 A
operational current	
● at 40 °C	250 A
● at 45 °C	250 A
● at 50 °C	250 A
● at 55 °C	243 A
● at 60 °C	237 A
● at 65 °C	230 A
● at 70 °C	223 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
breaking capacity maximum short-circuit current (Icu)	

• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
• at 500 V	10 kA
• at 690 V	7 kA
breaking capacity operating short-circuit current (Ics)	·
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	10 kA
• at 690 V	5 kA
short-circuit current making capacity (lcm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 440 V	52.5 kA
• at 500 V	17 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
Adjustable parameters	
Adjustable response value current / li min.	1 250 A
Adjustable response value current / li max.	2 500 A
design of the N-conductor protection	Without
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
height [in]	6.22 in
Height	158 mm
width [in]	5.51 in
Width	140 mm
depth [in]	2.76 in
depth	70 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	nut keeper kit on both ends
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8 mm
Auxiliary circuit	
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

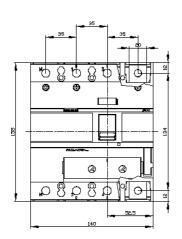
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Declaration of Conf	ormity	Test Certificates			Marine / Shipping		
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BUREAU VERITAS	Lloyd's Register Lis	RMRS	DNV-GL DNV-GL	<u>Miscellaneous</u>	<u>Miscellaneous</u>		
Further information							
Information- 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=3VA1225-4EF42-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA1225-4EF42-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)							

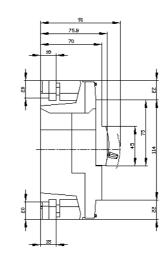
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1225-4EF42-0AA0

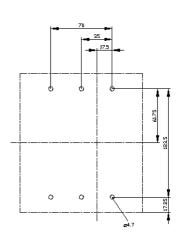
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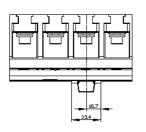
http://www.siemens.com/cax Tender specifications

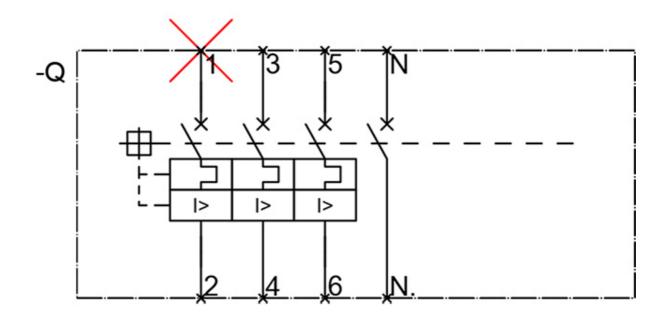
http://www.siemens.com/specifications











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