



circuit breaker 3VA1 IEC frame 250 breaking capacity class M  $I_{cu}=55kA$  @ 415V 3-pole, line protection TM240, ATAM,  $I_n=200A$  overload protection  $I_r=140A...200A$  short-circuit protection  $I_i=5...10 \times I_n$  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	3
General technical data	
Tension assignée d'isolement $U_i$	800 V
Max. rated operational voltage $U_e$ with AC 50/60Hz	690 V
Max. rated operational voltage $U_e$ with DC	500 V
power loss [W] / maximum	42 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14 W
mechanical service life (switching cycles) / typical	15 000
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	5 000
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
net weight	1.607 kg
Current	
Max. rated operational current of the frame size	250 A
Courant permanent assigné $I_u$	200 A
operational current	
• at 40 °C	200 A
• at 45 °C	200 A
• at 50 °C	200 A
• at 55 °C	194 A
• at 60 °C	188 A
• at 65 °C	182 A
• at 70 °C	176 A
Switching capacity according to IEC 60947	
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 440 V	36 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	36 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	76 kA
• at 690 V	17 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
<b>Adjustable parameters</b>	
Adjustable response value current / I <sub>g</sub> min.	140 A
Adjustable response value current / I <sub>g</sub> min.	200 A
Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF	No
Adjustable response value current / I <sub>i</sub> min.	1 000 A
Adjustable response value current / I <sub>i</sub> max.	2 000 A
Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF	No
<b>Mechanical Design</b>	
height [in]	6.2 in
Height	158 mm
width [in]	4.1 in
Width	105 mm
depth [in]	2.8 in
depth	70 mm
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	Front terminal
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
<b>Auxiliary circuit</b>	
number of CO contacts / for auxiliary contacts	0
<b>Accessories</b>	
product extension / optional / motor drive	Yes
<b>Environmental conditions</b>	
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
<b>Certificates</b>	
reference code / acc. to IEC 81346-2	Q
<b>General Product Approval</b>	



[Miscellaneous](#)

[KC](#)



EMC	Declaration of Conformity	Test Certificates			Shipping Approval
-----	---------------------------	-------------------	--	--	-------------------



[Miscellaneous](#)

[Type Test  
Certificates/Test  
Report](#)

[Special Test  
Certificate](#)



Shipping Approval	other				
-------------------	-------	--	--	--	--



[Manufacturer  
Declaration](#)

[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=3VA1220-5EF32-0AA0>

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

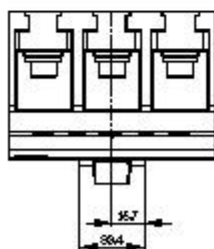
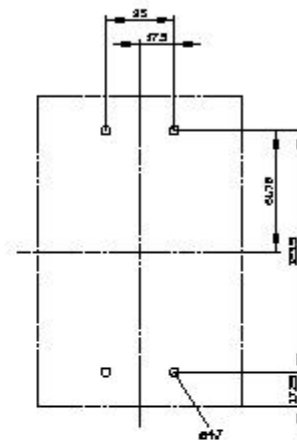
<https://support.industry.siemens.com/cs/ww/en/ps/3VA1220-5EF32-0AA0>

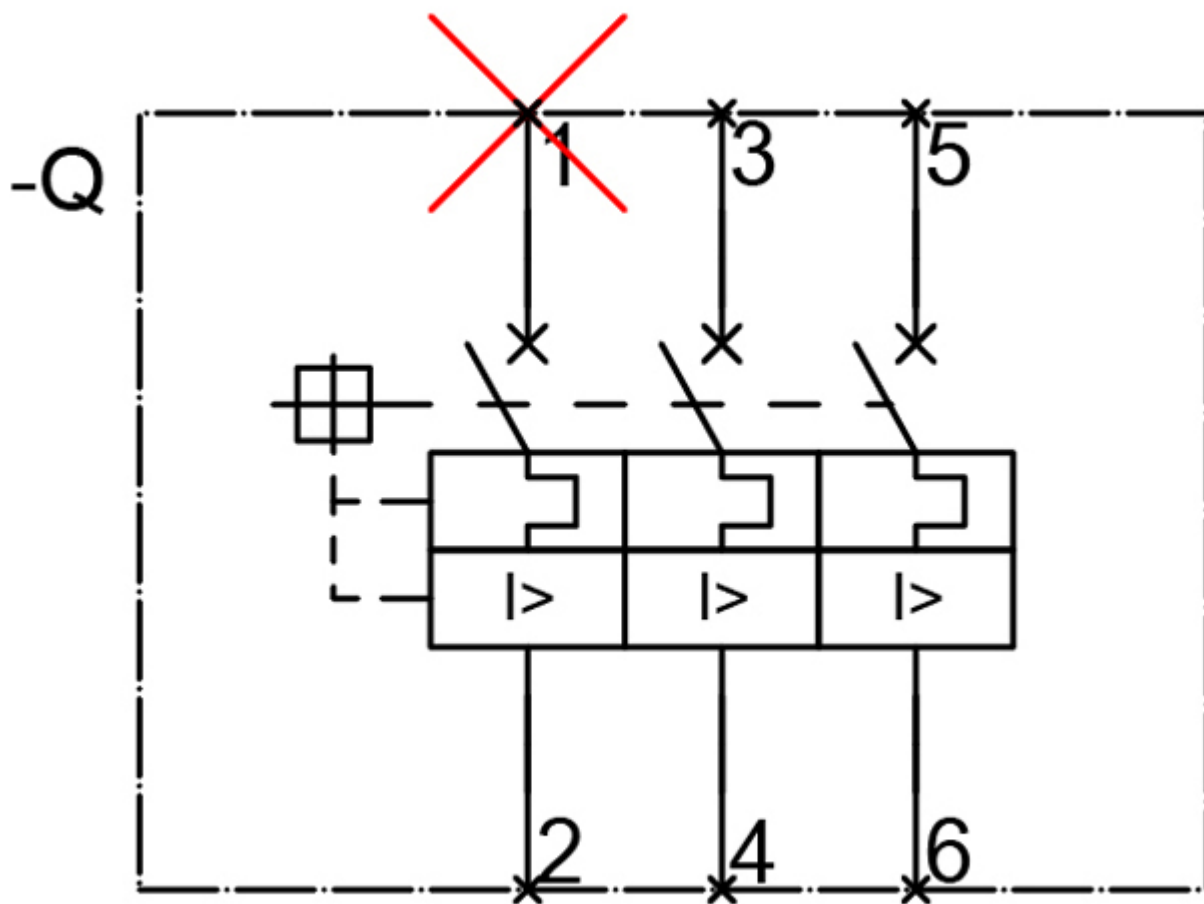
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1220-5EF32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1220-5EF32-0AA0)

Tender specifications

<http://www.siemens.com/specifications>





last modified:

12/1/2020 