SIEMENS

Data sheet

3VA1180-4GD42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM210, FTFM, In=80A overload protection Ir=80A fixed short-circuit protection Ii=10 x In N conductor protection 100% nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	19.2 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	6.4 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	9 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	6 300
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
 communication function 	No
 other measurement function 	No
Net Weight	1.2 kg
Current	
operational current	
• at 40 °C	80 A
● at 45 °C	80 A
● at 50 °C	80 A
● at 55 °C	78 A
• at 60 °C	77 A
• at 65 °C	75 A
• at 70 °C	74 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
• at 500 V	7 kA
• at 690 V	7 kA

operating short-circuit current breaking capacity (lcs)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
• at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 440 V	52.5 kA
• at 500 V	11.9 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

breaker device manual; link to be found under Service & Support in the last chapter

product feature / for L-tripping / can be switched on/off No adjustable response value setting current (i) / of the L-trip / with [2] characteristab. 80 A • maximum 80 A adjustable response value delay time (ir) / for L-tripping / with 12t characteristab. 1 s • maximum 1 s adjustable response value delay time (ir) / for L-tripping / with 12t characteristab. 1 s • maximum 80 A • design of the N-conductor protection 10% product function (prounding protection 10% • undervoltage release No • undervoltage release No <t< th=""><th></th><th>cnapter</th></t<>		cnapter
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• maximum 80 A design of the N-conductor protection 100% product function / grounding protection No Mechanical Design	adjustable setting current (InN) / for N-tripping	
design of the N-conductor protection 100% product function / grounding protection No Mechanical Design Image: State	• minimum	80 A
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terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum 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 number of CO contacts / for auxiliary contacts 0 Accessories product extension / optional / motor drive Protection class IP / on the front ambient temperature	type of electrical connection / for main current circuit	nut keeper kit on both ends
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Accessories product extension / optional / motor drive Yes Environmental conditions IP40 ambient temperature IP40	Auxiliary circuit	
product extension / optional / motor drive Yes Environmental conditions IP40 ambient temperature IP40	number of CO contacts / for auxiliary contacts	0
Environmental conditions protection class IP / on the front ambient temperature	Accessories	
protection class IP / on the front IP40 ambient temperature IP40	product extension / optional / motor drive	Yes
ambient temperature	Environmental conditions	
ambient temperature	protection class IP / on the front	IP40
	•	
• during operation / minimum -25 °C	during operation / minimum	-25 °C

during operation during storage / during storage / ertificates	minimum	70 °C -40 °(80 °C	C		
reference code / accor	rding to IEC 81346-2	Q			
General Product Ap	÷				
	<u>Confirmation</u>		<u>Miscellaneous</u>	<u>KC</u>	EHC
EMC	Declaration of Confo	ormity	Test Certificates		
RCM	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	Miscellaneous
Marine / Shipping					other
ABS	B U R E A U VER ITAS		RMRS	<u>CCS / China Classific-</u> ation Society	Miscellaneous
other		Environment			
Confirmation	Miscellaneous	Environmental Con- firmations			
urther information					
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https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3VA1180-4GD42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1180-4GD42-0AAC

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

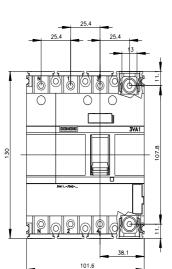
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1180-4GD42-0AA0

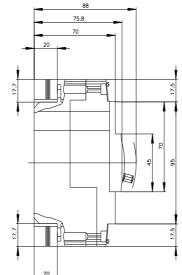
CAx-Online-Generator

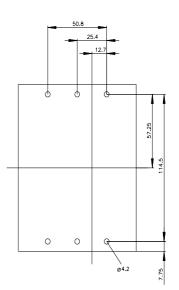
http://www.siemens.com/cax

Tender specifications

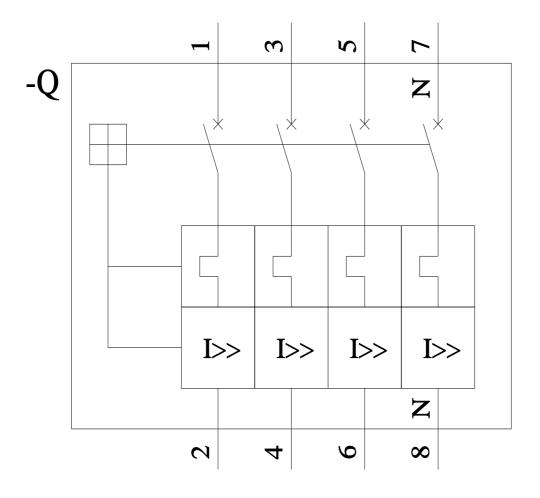
http://www.siemens.com/specifications







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