SIEMENS

Data sheet

3VA1180-3EE36-0AA0



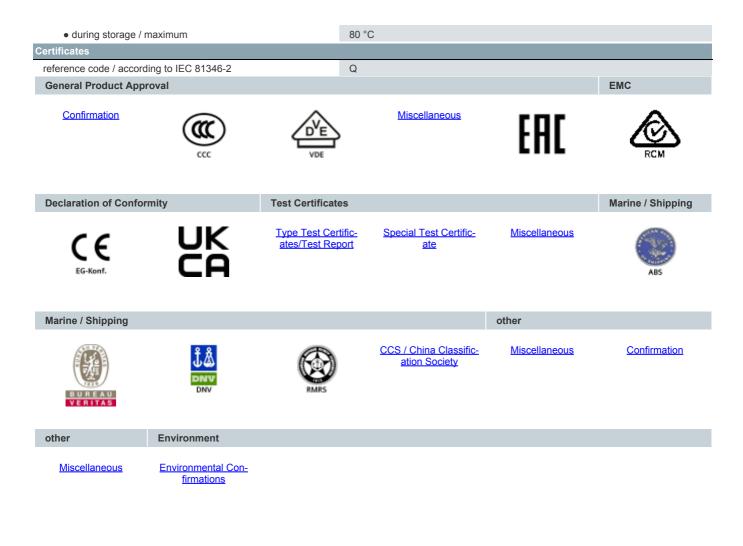
circuit breaker 3VA1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM220, ATFM, In=80A overload protection Ir=56A...80A short-circuit protection Ii=10 x In clamp connection

Model			
product brand name	SENTRON		
product designation	Molded case circuit breaker		
design of the product	Line protection		
design of the overcurrent release	TM220		
protection function of the overcurrent release	LI		
number of poles	3		
General technical data			
insulation voltage / rated value	800 V		
operating voltage / at DC / rated value	500 V		
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	19.2 W		
power loss $\left[W\right]$ / 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	1.005 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	Ν		
maximum short-circuit current breaking capacity (Icu)			
• at 240 V	36 kA		
• at 415 V	25 kA		
• at 440 V	16 kA		
• at 500 V	7 kA		
• at 690 V	7 kA		

operating short-circuit current breaking capacity (lcs)	
• at 240 V	36 kA
• at 415 V	25 kA
• at 440 V	16 kA
• at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	75.6 kA
● at 415 V	52.5 kA
• at 440 V	32 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 chapter

	chapter
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	56 A
• maximum	80 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1s
adjustable response value setting current (li) / for I-tripping	
• minimum	800 A
• maximum	800 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
 voltage trigger 	No
trip indicator	No
height [in]	5.12 in
height	130 mm
width [in]	3 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (1,5 - 70 mm²)
width	76.2 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	box terminal on both sides

arrangement of electrical connectors 7 for main current circuit	Front terminar
type of electrical connection / for main current circuit	box terminal on both sides
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) $$	Silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) $$	Tin
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



Fu	urther information
	Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
I	Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
	Information on the packaging 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=3VA1180-3EE36-0AA0
	Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA1180-3EE36-0AA0
	Image detabase (product images 2D dimension drawings 2D models device sizewit disgrams)

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) com/bilddb/cax_en.aspx?mlfb=3VA1180-3EE36-0AA0

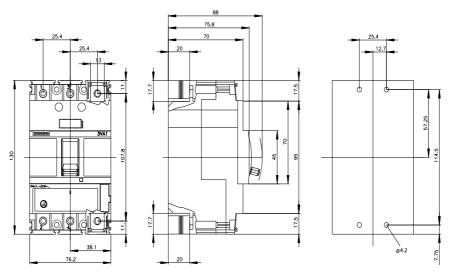
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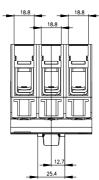
CAx-Online-Generator

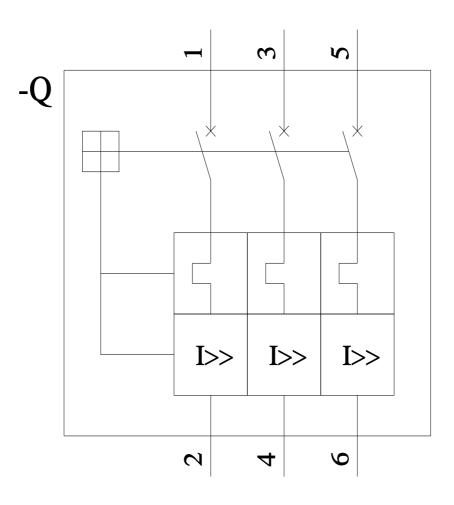
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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