3VA1163-4EF36-0AA0

Data sheet



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 3-pole, line protection TM240, ATAM, In=63A overload protection Ir=44A...63A short-circuit protection Ii=5...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	TM240		
protection function of the overcurrent release	Ц		
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	17.3 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	5.77 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	1.004 kg		
Current			
operational current			
● at 40 °C	63 A		
● at 45 °C	63 A		
• at 50 °C	63 A		
• at 55 °C	62 A		
• at 60 °C	61 A		
• at 65 °C	60 A		
• at 70 °C	58 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 11.9 kA 11.9 kA				
● at 500 V					
● at 690 V					
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				
Adjustable parameters	chapter				
product feature / for L-tripping / can be switched on/off	No				
adjustable response value setting current (Ir) / of the L-trip / with	NO				
12t characteristic					
• minimum	44 A				
• maximum	63 A				
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic					
• minimum	1 s				
• maximum	18				
adjustable response value setting current (li) / for I-tripping	13				
minimum	315 A				
maximum	630 A				
adjustable setting current (InN) / for N-tripping	030 A				
minimum	0 A				
maximum	0 A				
product function / grounding protection	No				
Mechanical Design	NO .				
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				
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	100				
	IP40				
protection class IP / on the front	IF 4 0				
ambient temperature	25 00				
during operation / minimum	-25 °C				
during operation / maximum	70 °C				
during storage / minimum	-40 °C				

during storage / maximum	80 °C
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] / total	190 kg
Global Warming Potential [CO2 eq] / during manufacturing	4.67 kg
Global Warming Potential [CO2 eq] / during operation	186 kg
Global Warming Potential [CO2 eq] / after end of life	-0.826 kg
reference code / according to IEC 81346-2	Q

Approvals / Certificates

General Product Approval





Confirmation





Miscellaneous

General	Prod	uct A	Approval	
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EMV

Test Certificates

<u>KC</u>





Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping











CCS (China Classification Society)

other

Environment

Miscellaneous

Confirmation

Miscellaneous





Environmental Confirmations

Further information

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=3VA1163-4EF36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1163-4EF36-0AA0

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

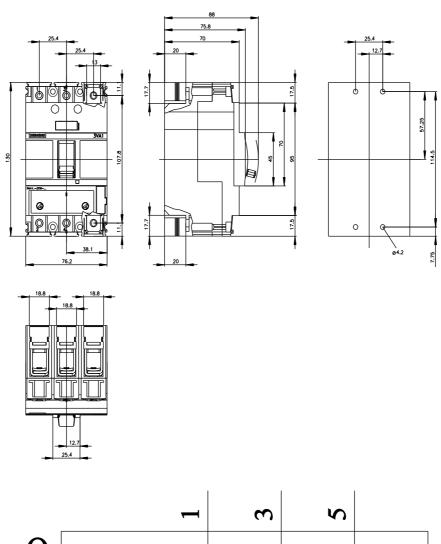
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1163-4EF36-0AA0

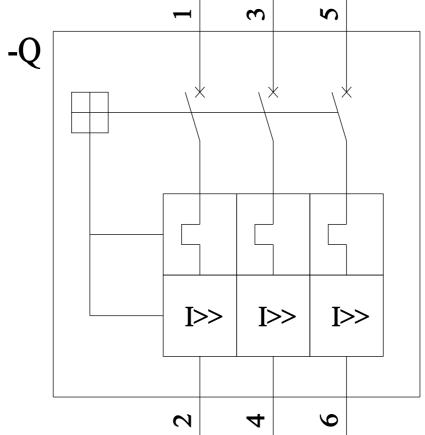
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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