SIEMENS

Data sheet

3VA1163-3ED32-0AA0



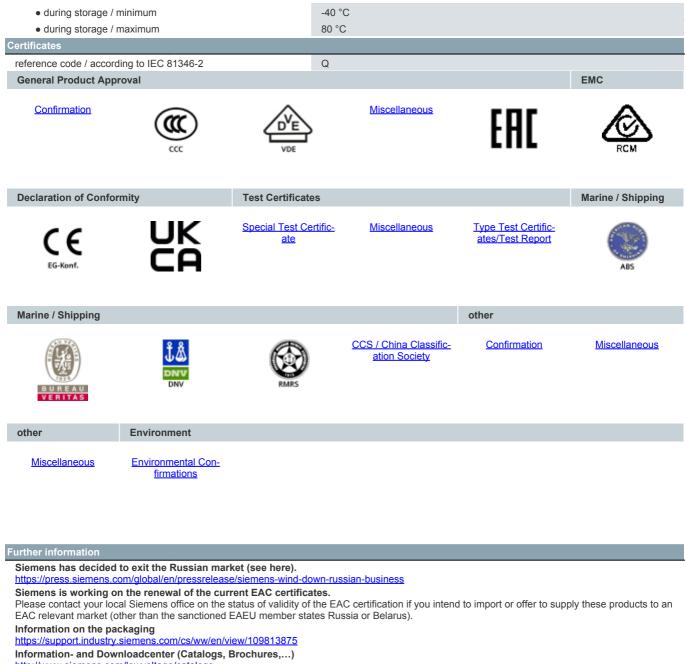
circuit breaker 3VA1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM210, FTFM, In=63A overload protection Ir=63A fixed short-circuit protection Ii=10 x In nut keeper kit

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	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 $\left[W\right]$ / 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	955 g		
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	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		

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

product testure / for L-tripping / an be switched on/off No adjustable response value setting current (i/) / of the L-trip / with 12 - i maximum 63 A adjustable response value delay time (i/) / for L-tripping / with 12 - i maximum 1s adjustable response value setting current (ii) / for L-tripping / with 12 - i maximum 630 A adjustable response value setting current (ii) / for L-tripping / minimum 630 A adjustable response value setting current (iii) / for L-tripping / minimum 630 A adjustable setting current (inv) / for N-tripping / minimum 0 A i maximum 0 A product function / grounding protection No Nechanical Design - product function / grounding protection No No - voltage trigger No voltage trigger No voltage trigger No width (in) 3 in width (in) 3 in width (in) - ype of detectical connectors / for main current circuit Font terminal type of d	Adjustable parameters	
IZ haracteristic SA • maximum 63 A edjustable response value delay time (tr) / for L-tripping / with IZ Formania • minimum 1 s • adjustable response value setting current (li) / for I-tripping I • minimum 630 A • adjustable response value setting current (li) / for I-tripping 630 A • minimum 630 A • adjustable setting current (lin) / for N-tripping 0 A • minimum 0 A • maximum 0 A • minimum 0 A • motioning protection No • undervoltage release No • voltage trigger No • undervoltage release No • voltage trigger 3 in width (in) 3 in width (in) 3 in width (in) 3 in width (in) 3 in voltage trigger 12 X I m width (in) 3 in width (in) 3 in width (in) 3 in width (in) 3 in width (in) 12 X I m beight 70 mm Connactions Fornt terminal margement of electrical connectors / for main current circuit Fornt terminal <tr< td=""><td>product feature / for L-tripping / can be switched on/off</td><td>No</td></tr<>	product feature / for L-tripping / can be switched on/off	No
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characteristic is • minimum 1 s adjustable response value setting current (II) / for I-tripping 630 A • maximum 630 A adjustable setting current (INV) / for N-tripping 630 A • maximum 60 A adjustable setting current (INV) / for N-tripping 0 A • maximum 0 A product function / grounding protection No Mechanical Design No product function / grounding protection No • undervoltage release No • voltage trigger No • voltage trigger No width [in] 5.12 in height [in] 3 in width 76.2 mm depth [in] 2.76 in depth [in] 77.6 in depth [in] 70 mm Connections 12 x 1 mm arrangement of electrical connectors / for main current circuit nut keeper kit on both ends type of electrical connectors / for main current circuit nut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar 12 x 1 mm terminal connecton / maximum	• maximum	63 A
• maximum 1 s adjustable response value setting current (iii / for I-tripping 630 A • miximum 630 A adjustable setting current (ink) / for N-tripping 630 A • miximum 0 A • maximum 0 A • undervoltage release No • voltage trigger No • voltage trigger No • voltage trigger No width 76.2 mm depth [ri] 276 in depth [ro] 776 in depth [ro] 70 mm Connectobe conductor cross-sections / for flat-bar 12 x 1 mm terminal connection / f		
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• minimum 630 A • maximum 630 A adjustable setting current (inN) / for N-tripping 0 A • 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 [in] 5.12 in height [in] 76.2 mm depth 70 mm Connections To ma arrangement of electrical connectors / for main current circuit Front terminal type of connectable conductor cross-sections / for flat-bar 12 x 1 mm terminal connection / for anin current circuit Trut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar 12 x 1 mm design of the surface / of the connections / on the top of the swritch (N, 1, 3, 5) Silver design of the surface / of the connections / on the top of the swritch (N, 1, 3, 5) Silver design of the surface / of the connections / on the top of the swritch (N, 1, 3, 5) O design of the surface / of the connections / on the top of the swritch (N, 1, 3, 5) Silver product extension / optional / motor drive Yes	• maximum	1 s
• maximum 630 A adjustable setting current (InN) / for N-tripping 0 • maximum 0 A product function / grounding protection No Mechanical Design	adjustable response value setting current (li) / for I-tripping	
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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-sections / for flat-bar 12 x 1 mm type of connectable conductor cross-sections / for flat-bar 17 x 6,5 mm terminal connection / minimum Silver 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 number of CO contacts / for auxiliary contacts 0 Accessories product extension / optional / motor drive product extension / optional / motor drive Yes Environmental conditions IP40	depth [in]	2.76 in
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type of electrical connection / for main current circuit nut keeper kit on both ends type of connectable conductor cross-sections / for flat-bar 12 x 1 mm terminal connection / minimum 17 x 6,5 mm terminal connection / maximum 17 x 6,5 mm 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 IP40 IP40	Connections	
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switch (N, 1, 3, 5) Image: switch (N, 2, 4, 6) Auxiliary circuit Tin number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive Yes Environmental conditions IP40		17 x 6,5 mm
switch (N, 2, 4, 6) 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		Silver
number of CO contacts / for auxiliary contacts 0 Accessories		Tin
Accessories product extension / optional / motor drive Yes Environmental conditions IP40	Auxiliary circuit	
product extension / optional / motor drive Yes Environmental conditions	number of CO contacts / for auxiliary contacts	0
Environmental conditions protection class IP / on the front IP40	Accessories	
protection class IP / on the front IP40	product extension / optional / motor drive	Yes
· · · · · · · · · · · · · · · · · · ·	Environmental conditions	
	protection class IP / on the front	IP40
ambient temperature	ambient temperature	
• during operation / minimum -25 °C	during operation / minimum	-25 °C
• during operation / maximum 70 °C	during operation / maximum	70 °C



http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1163-3ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1163-3ED32-0AA0

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

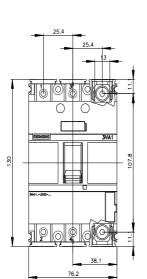
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1163-3ED32-0AA0

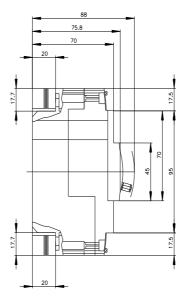
CAx-Online-Generator

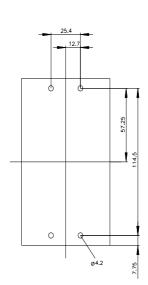
http://www.siemens.com/cax

Tender specifications

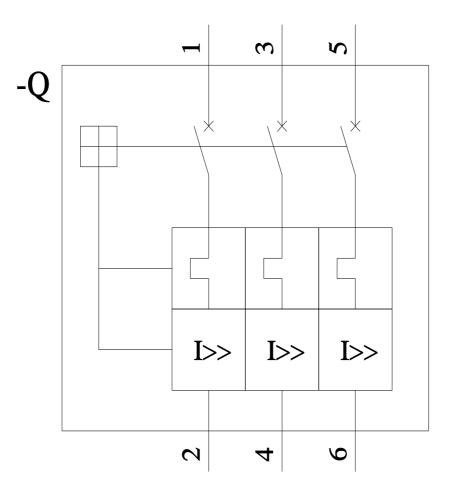
http://www.siemens.com/specifications







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