## SIEMENS

## Data sheet

## 3VA1163-3ED42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 4-pole, line protection TM210, FTFM, In=63A overload protection Ir=63A fixed short-circuit protection Ii=10 x In N conductor unprotected 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	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	
<ul> <li>communication function</li> </ul>	No
<ul> <li>other measurement function</li> </ul>	No
Net Weight	1.207 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	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

	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	63 A		
• maximum	63 A		
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic			
• minimum	1 s		
• maximum	1 s		
adjustable response value setting current (li) / for I-tripping			
• minimum	630 A		
• maximum	630 A		
adjustable setting current (InN) / for N-tripping			
• minimum	0 A		
• maximum	0 A		
design of the N-conductor protection	without		
product function / grounding protection	No		
Mechanical Design			
product component			
<ul> <li>undervoltage release</li> </ul>	No		
voltage trigger	No		
• trip indicator	No		
height [in]	5.12 in		
height	130 mm		
width [in]	4 in		
width	101.6 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	nut keeper kit on both ends		
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm		
type of connectable conductor cross-sections / for flat-bar 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			
protection class IP / on the front	IP40		
ambient temperature			
during operation / minimum	-25 °C		

<ul> <li>during operation</li> <li>during storage / r</li> <li>during storage / r</li> </ul>	minimum	70 ° -40 ° 80 °	°C		
Certificates			•		
reference code / accord General Product App		Q			EMC
	<u>Confirmation</u>	VDE	<u>Miscellaneous</u>	EHC	RCM
Declaration of Confor	mity	Test Certificates			Marine / Shipping
CE EG-Konf.	UK CA	<u>Miscellaneous</u>	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> ate	ABS
Marine / Shipping				other	
BUREAU VERITAS		RMRS	CCS / China Classific- ation Society	<u>Miscellaneous</u>	<u>Confirmation</u>
other	Environment				
<u>Miscellaneous</u>	Environmental Con- firmations				
Further information					

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

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=3VA1163-3ED42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1163-3ED42-0AAC

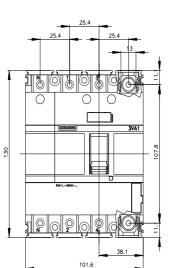
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

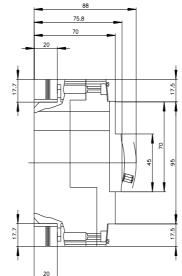
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1163-3ED42-0AA0

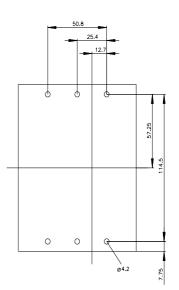
CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

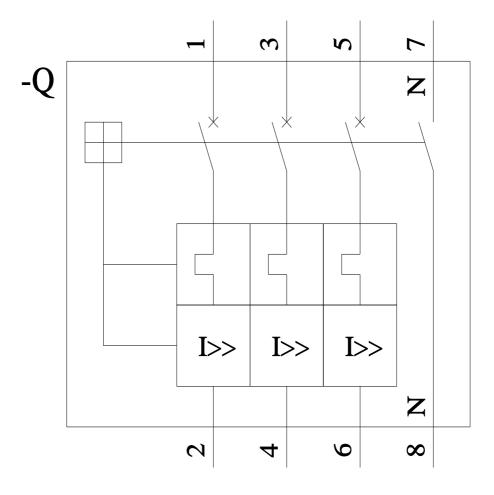
http://www.siemens.com/specifications







 12.7



8/10/2023 🖸

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3VA11633ED420AA0