## SIEMENS

## Data sheet

## 3VA2220-7MQ32-0AA0



circuit breaker 3VA2 IEC frame 250 breaking capacity class C Icu=110kA @ 415V 3-pole, motor protection ETU860M, LSIG, In=200A overload protection Ir=80A...200A short-circuit protection Isd=1.2..15x In, Ii=3..15x In gr.-fault prot., can be sw. off Ig=0.2...1 x In, tg=0.05-0.8s nut keeper kit

Model						
product brand name	SENTRON					
product designation	Molded case circuit breaker					
design of the product	Motor protection					
design of the overcurrent release	ETU860M					
protection function of the overcurrent release	LSIG					
number of poles	3					
General technical data						
insulation voltage / rated value	800 V					
operating voltage / at AC / rated value	690 V					
operating power / at AC-3 / at 400 V	75 000 W					
operating power / at AC-3 / at 230 V	37 000 W					
power loss [W] / maximum	46 W					
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	15.33 W					
mechanical service life (operating cycles) / typical	25 000					
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	12 000					
electrical endurance (operating cycles) / at AC-1 / at 690 V	8 400					
electrical endurance (operating cycles) / at AC-3 / at 380/415 V	6 000					
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No					
ground-fault monitoring version	Summation current formation L-conductor					
product function						
communication function	Yes					
<ul> <li>phase failure detection</li> </ul>	Yes					
<ul> <li>other measurement function</li> </ul>	Yes					
Net Weight	2.232 kg					
Current						
continuous current / rated value / maximum	250 A					
continuous current / rated value	200 A					
operational current						
• at 40 °C	200 A					
● at 45 °C	200 A					
● at 50 °C	200 A					
● at 55 °C	200 A					
• at 60 °C	200 A					
● at 65 °C	200 A					
• at 70 °C	200 A					
Switching capacity according to IEC 60947						
switching capacity class of the circuit breaker	C					

maximum short-circuit current breaking capacity (Icu)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
● at 500 V	85 kA
● at 690 V	3.5 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	150 kA
● at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	3.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 440 V	242 kA
● at 500 V	187 kA
• at 690 V	5.2 kA
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	80 A
• maximum	200 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	3 s
• maximum	15 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic	
• minimum	240 A
• maximum	3 000 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic	
• minimum	0.03 s
• maximum	0.03 s
adjustable response value setting current (li) / for I-tripping	
• minimum	600 A
• maximum	3 000 A
adjustable current response value current / for G-tripping / with standard characteristic	
<ul> <li>initial value</li> </ul>	40 A
<ul> <li>full-scale value</li> </ul>	200 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic	
• maximum	0.8 s
adjustable response value setting current (Ig) / for G- tripping / with I2t characteristic	
• minimum	40 A
• maximum	200 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic	0.05
• minimum	0.05 s
• maximum	0.8 s
adjustable absolute value setting current (InN) / for N- tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	600 A
• maximum	3 000 A
product function / grounding protection	Yes
adjustable trip class (Tc CLASS)	10A, 10/10E, 20/ 20E, 30
tripping time (Tp) / with adjustable trip class (Tc CLASS)	
• minimum	3 s

• maximum			15 s	3		
Mechanical Design						
product component						
<ul> <li>undervoltage release</li> </ul>			No			
<ul> <li>voltage trigger</li> </ul>			No			
<ul> <li>trip indicator</li> </ul>			No			
height [in]			7.13	3 in		
height			181	mm		
width [in]			4.13	3 in		
width			105	mm		
depth [in]			3.39	) in		
depth			86 r	nm		
Connections						
arrangement of electrical con circuit	inectors / for ma	in current	Fro	nt terminal		
type of electrical connection /	for main curren	nt circuit	on b	ooth sides nut keeper kit		
	type of connectable conductor cross-sections / for flat-bar			< 1 mm		
type of connectable conducto terminal connection / maximu	or cross-sections	s / for flat-bar	25 >	< 8 mm		
design of the surface / of the the switch (N, 1, 3, 5)		n the top of	silve	er		
	design of the surface / of the connections / on the bottom		tin	tin		
Auxiliary circuit						
number of CO contacts / for a	auxiliary contact	S	0			
Accessories	-					
product extension / optional /	motor drive		Yes	i		
Environmental conditions						
protection class IP / on the fro	ont		IP4	0		
ambient temperature						
during operation / minimum		-25	°C			
during operation / maximum		70 °C				
<ul> <li>during storage / minimu</li> </ul>			-40 °C			
<ul> <li>during storage / maxim</li> </ul>				80 °C		
Certificates						
reference code / according to	IEC 81346-2		Q			
General Product Approval			~			EMC
	onfirmation		•	<u>Miscellaneous</u>	EHC	
Declaration of Conformity		Test Certifica	ates		Marine / Shipping	
-					A1172	
CE EG-Konf.	JK CA	Miscellaneo	<u>ous</u>	<u>Special Test Certific-</u> <u>ate</u>	BUREAU VERITAS	
Marine / Shipping other	r				Dangerous Good	Environment
CCS / China Classi- fication Society	onfirmation	Miscellaneo	ous	Miscellaneous	Transport Informa- tion	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=3VA2220-7MQ32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2220-7MQ32-0AA0

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

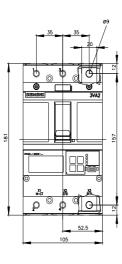
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA2220-7MQ32-0AA0

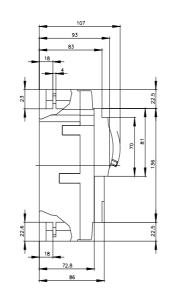
CAx-Online-Generator

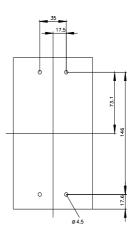
http://www.siemens.com/cax

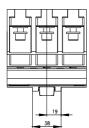
Tender specifications

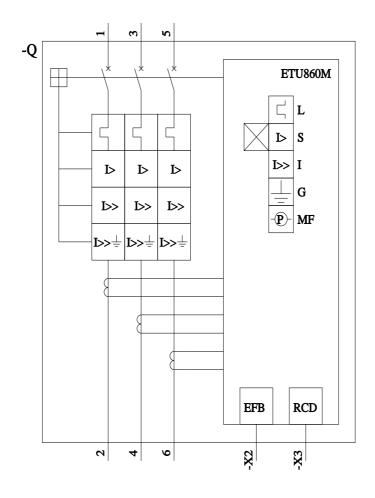
http://www.siemens.com/specifications











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