SIEMENS

Data sheet 3VA2220-5MQ32-0AA0



circuit breaker 3VA2 IEC frame 250 breaking capacity class M Icu=55kA @ 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
● phase failure detection	Yes
● other measurement function	Yes
Net Weight	2.229 kg
Current	
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	M
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	85 kA
● at 415 V	55 kA

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● at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	3.5 kA
operating short-circuit current breaking capacity (Ics)	
● at 240 V	85 kA
● at 415 V	55 kA
● at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	3.5 kA
short-circuit current making capacity (Icm)	
● at 240 V	187 kA
● at 415 V	121 kA
● at 440 V	121 kA
● at 500 V	75.6 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 (Ii) / for I-tripping	
● minimum	600 A
● maximum	3 000 A
adjustable current response value current / for G-tripping / with standard characteristic	
● initial value	40 A
● full-scale value	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	
● minimum	0.05 s
● maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
● minimum	0 A
● maximum	0 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
Mechanical Design	
product component	
● undervoltage release	No
● voltage trigger	No

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• trip indicator	No
height [in]	7.13 in
height	181 mm
width [in]	4.13 in
width	105 mm
depth [in]	3.39 in
depth	86 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	on both sides nut keeper kit
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	13 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 x 8 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
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C
Certificates	
reference code / according to IEC 81346-2	Q

General Product Approval					EMC
Confirmation			Miscellaneous		

Declaration of Conformity		Test Certificates		Marine / Shipping	
		Miscellaneous	Special Test Certific-ate		

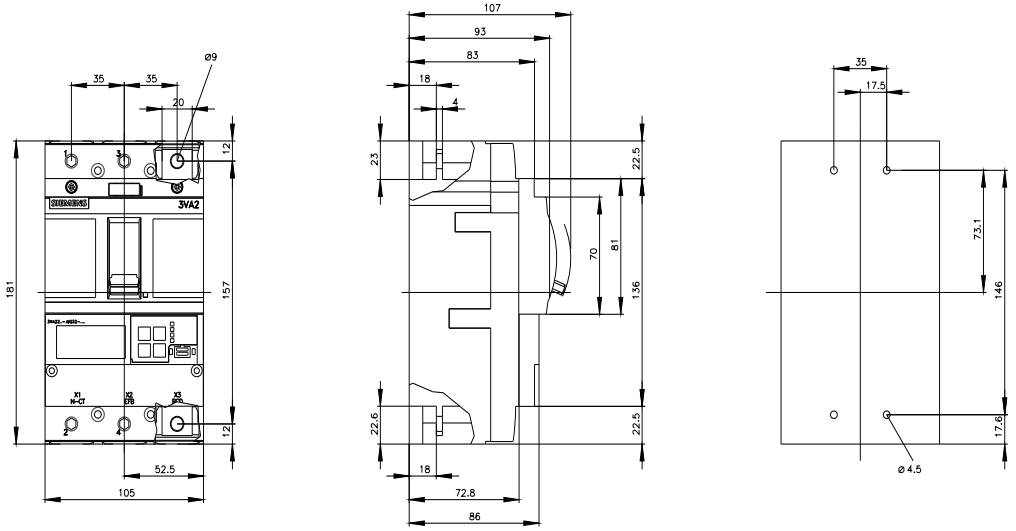
Marine / Shipping	other			Dangerous Good	Environment
CCS / China Classific-ation Society	Confirmation	Miscellaneous	Miscellaneous	Transport Information	Environmental Con-firmations

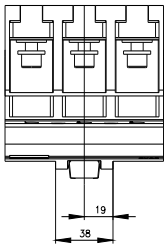
Further information

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=3VA2220-5MQ32-0AA0

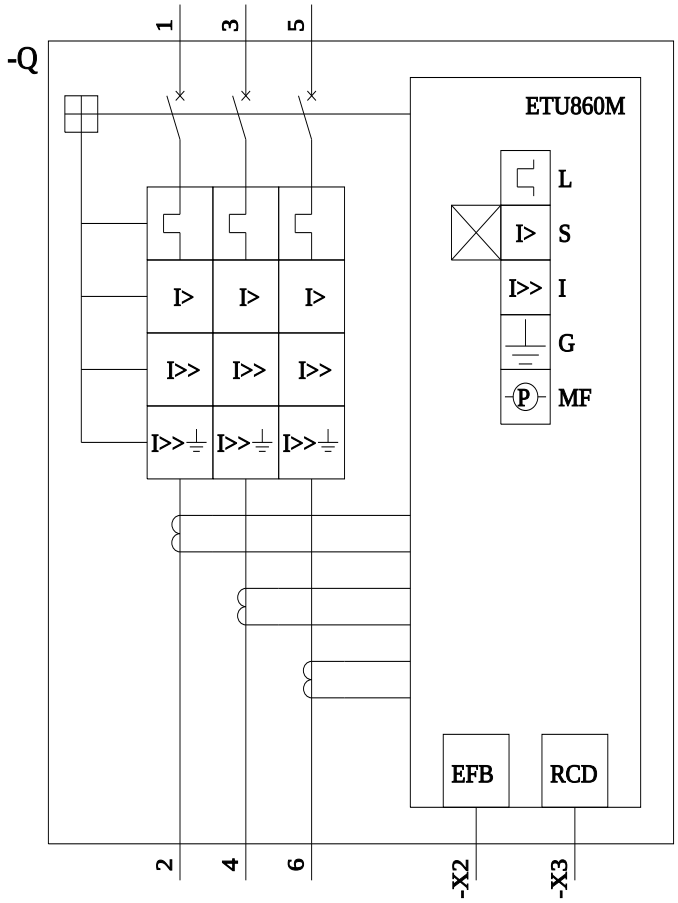
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2220-5MQ32-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2220-5MQ32-0AA0
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications





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