3VA2225-5HL42-0AA0

Data sheet



circuit breaker 3VA2 IEC frame 250 breaking capacity class M Icu=55kA @ 415V 4-pole, line protection ETU320, LI, In=250A overload protection Ir=100A...250A short-circuit protection Ii=1.5...10 x In N conductor protection adjustable (OFF, 50%, 100%) 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	ETU320		
protection function of the overcurrent release	U		
number of poles	4		
General technical data			
insulation voltage / rated value	800 V		
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	48 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	16 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		
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	2.875 kg		
Current			
continuous current / rated value / maximum	250 A		
continuous current / rated value	250 A		
operational current			
● at 40 °C	250 A		
● at 45 °C	250 A		
● at 50 °C	250 A		
• at 55 °C	241 A		
• at 60 °C	232 A		
• at 65 °C	222 A		
• at 70 °C	213 A		
Switching capacity according to IEC 60947	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		
• at 440 V	55 kA		
• at 500 V	36 kA		

● at 690 V	3 kA
	J M
operating short-circuit current breaking capacity (lcs) • at 240 V	85 kA
• at 415 V	55 kA 55 kA
• at 440 V	
• at 500 V	36 kA
• at 690 V	3 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	4.5 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	
	100 A
minimummaximum	250 A
	200 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	15 s
adjustable response value setting current (li) / for I-tripping	
• minimum	375 A
• maximum	2 500 A
adjustable absolute value setting current (InN) / for N-tripping	
• minimum	125 A
maximum	250 A
adjustable current response value current / of instantaneous	2007.
short-circuit trip unit	
• minimum	375 A
• maximum	2 500 A
design of the N-conductor protection	adjustable OFF; 50%; 100%
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	7.13 in
height	181 mm
width [in]	5.51 in
width	140 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	13 x 1 mm
terminal connection / minimum	
type of connectable conductor cross-sections / for flat-bar	25 x 8 mm
terminal connection / maximum	25 x 8 mm
terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	silver
terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	
terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the	silver
terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver
terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit	silver
terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts	silver
terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories	silver tin 0

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-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping







CCS / China Classification Society

Confirmation

other

Miscellaneous

other

Dangerous Good

Environment

Miscellaneous

Transport Information

Environmental Confirmations

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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2225-5HL42-0AA0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-5HL42-0AA0

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

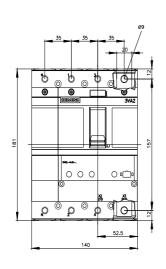
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-5HL42-0AA0

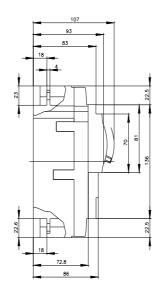
CAx-Online-Generator

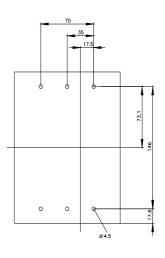
http://www.siemens.com/cax

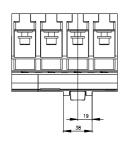
Tender specifications

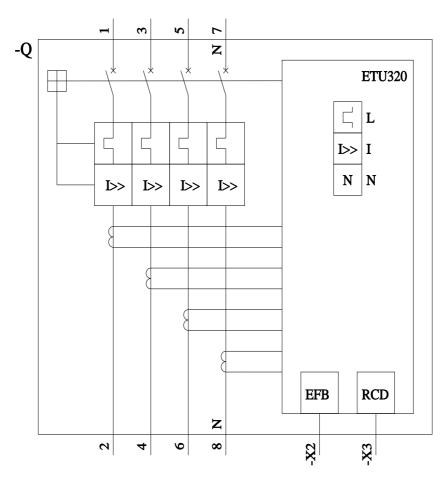
http://www.siemens.com/specifications











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