SIEMENS

Data sheet 3VA2225-5JP32-0AA0



circuit breaker 3VA2 IEC frame 250 breaking capacity class M Icu=55kA @ 415V 3-pole, line protection ETU550, LSI, In=250A overload protection Ir=100A...250A short-circuit protection Isd=0.6..10x In, Ii=1.5..10x In N conductor protection optionally with external current transformer, up to 160% 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	ETU550
protection function of the overcurrent release	LSI
number of poles	3
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	Yes
ground-fault monitoring version	Without
product function	
● communication function	Yes
● other measurement function	No
Net Weight	2.242 kg
Current	
operational current	
● at 40 °C	250 A
● at 45 °C	250 A
● at 50 °C	250 A
● at 55 °C	238 A
● at 60 °C	225 A
● at 65 °C	213 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
● at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	3 kA
operating short-circuit current breaking capacity (Ics)	

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● 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
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	
● minimum	100 A
● maximum	250 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 (Isd) / of S-trip / with I0t characteristic	
● minimum	150 A
● maximum	2 500 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
● minimum	150 A
● maximum	2 500 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic	
● minimum	0.05 s
● maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
● minimum	0.05 s
● maximum	0.5 s
adjustable response value setting current (Ii) / for I-tripping	
● minimum	375 A
● maximum	2 500 A
adjustable setting current (InN) / for N-tripping	
● minimum	50 A
● maximum	400 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
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]	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

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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
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] / total	251 kg
Global Warming Potential [CO2 eq] / during manufacturing	20.4 kg
Global Warming Potential [CO2 eq] / during operation	235 kg
Global Warming Potential [CO2 eq] / after end of life	-3.75 kg
reference code / according to IEC 81346-2	Q

Approvals / Certificates

General Product Approval

EG-Konf. UKCA Confirmation CCC VDE Miscellaneous

General Product Approval	EMV	Test Certificates			Marine / Shipping
EAC	RCM	Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate	ABS

Marine / Shipping					other
BUREAU VERITAS	DNV	LRS	RMRS	CCS (China Classification Society)	Confirmation

other		Dangerous Good	Environment
Miscellaneous	Miscellaneous	Transport Information	Environmental Confirmations

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)

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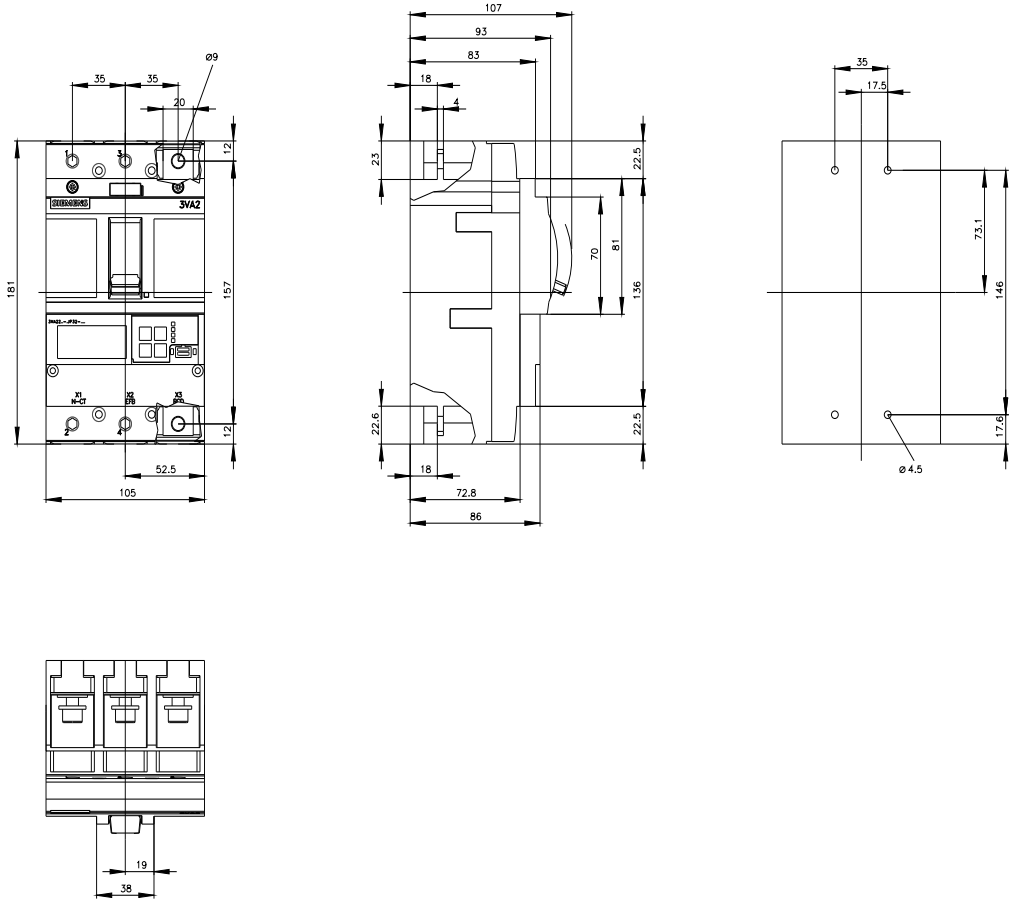
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2225-5JP32-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-5JP32-0AA0

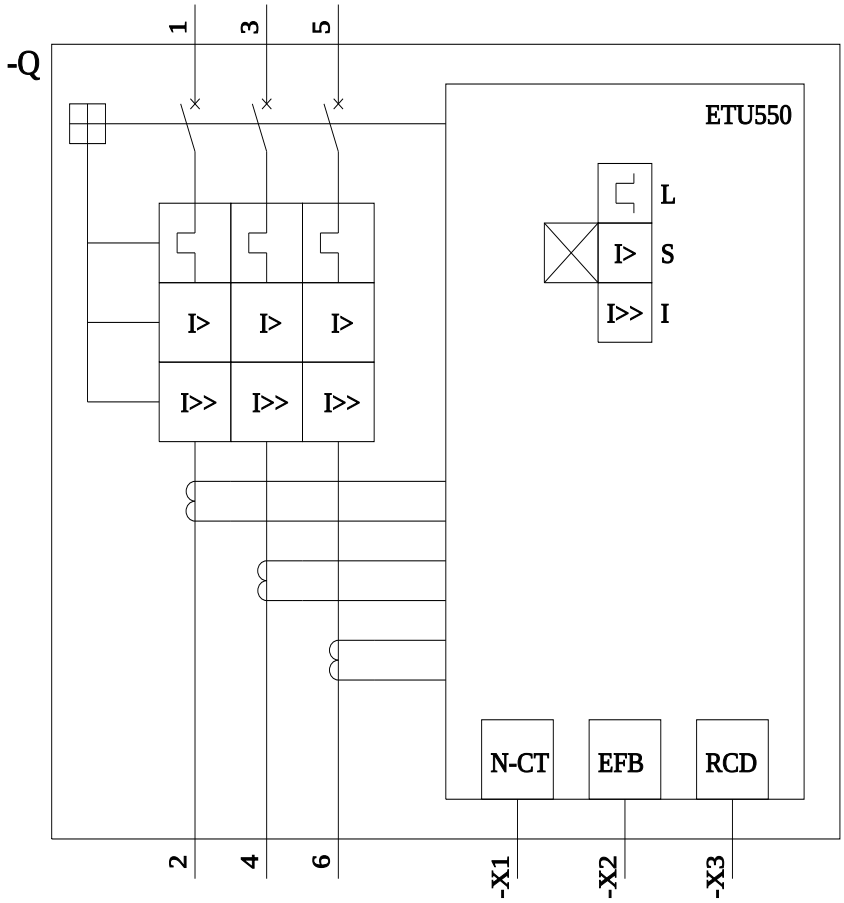
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-5JP32-0AA0

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

Tender specifications
http://www.siemens.com/specifications



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