3VA2220-5MN32-0AA0

Data sheet





circuit breaker 3VA2 IEC Frame 250 breaking capacity class M Icu=55 kA @ 415 V 3-pole, motor protection ETU350M, LSI, In=200 A overload protection Ir=80 A...200 A short-circuit protection Isd=3...15 x Ir, Ii=15 x In 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	ETU350M	
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	
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	Without	
product function		
• communication function	No	
phase failure detection	Yes	
other measurement function	No	
Net Weight	2.133 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
• at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	3.5 kA
operating short-circuit current breaking capacity (lcs)	
● 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	
12t characteristic	
• minimum	80 A
maximum	200 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	4 s
maximum	15 s
adjustable response value setting current (lsd) / of S-trip / with l0t characteristic	
• minimum	600 A
maximum	3 000 A
adjustable response value delay time (tsd) / for S-tripping / with l0t characteristic	
• minimum	0.03 s
maximum	0.03 s
adjustable response value setting current (li) / for I-tripping	
• minimum	3 000 A
maximum	3 000 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
maximum	0 A
product function / grounding protection	No
adjustable trip class (Tc CLASS)	10A, 10E, 20E
tripping time (Tp) / with adjustable trip class (Tc CLASS)	
• minimum	4 s
• maximum	15 s
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 depth	86 mm
Connections	00 11111
	Front terminal
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 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
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
Siemens Eco Profile (SEP)	Siemens EcoTech
reference code / according to IEC 81346-2	Q
Approvals / Certificates	

Approvais / Certificates

General Product Approval







Confirmation



Miscellaneous

General Product Approval

EMV

Test Certificates

Marine / Shipping





Miscellaneous

Special Test Certificate





Marine / Shipping

other

Dangerous goods

Environment

CCS (China Classification Society)

Confirmation

Miscellaneous

Miscellaneous

Transport Information



Environment



Environmental Confirmations Environmental Confirmations

Further information

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=3VA2220-5MN32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA22

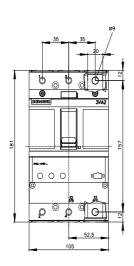
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2220-5MN32-0AA0

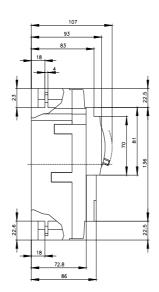
CAx-Online-Generator

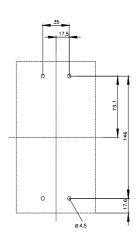
http://www.siemens.com/cax

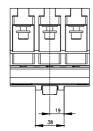
Tender specifications

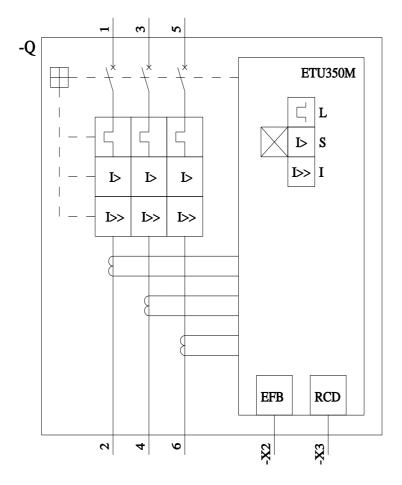
http://www.siemens.com/specifications











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