

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 250 breaking capacity class M $I_{cu}=55\text{ kA @ }415\text{ V}$
3-pole, line protection ETU330, LIG, $I_n=250\text{ A}$ overload protection $I_r=100\text{ A} \dots 250\text{ A}$
short-circuit protection $I_i=1.5 \dots 10 \times I_n$ ground-fault protection $I_g=0.2 \dots 1 \times I_n$,
tg=0.1/0.3s 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	ETU330
protection function of the overcurrent release	LIG
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/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Summation current formation L-conductor
product function	
• communication function	No
• other measurement function	No
Net Weight	2.243 kg
Current	
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 class of the circuit breaker	M
maximum short-circuit current breaking capacity (I_{cu})	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA

<ul style="list-style-type: none"> • at 500 V • at 690 V 	36 kA 3 kA
operating short-circuit current breaking capacity (Ics) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V 	85 kA 55 kA 55 kA 36 kA 3 kA
short-circuit current making capacity (Icm) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V 	187 kA 121 kA 121 kA 75.6 kA 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 <ul style="list-style-type: none"> • minimum • maximum 	100 A 250 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic <ul style="list-style-type: none"> • minimum • maximum 	0.5 s 15 s
adjustable response value setting current (Ii) / for I-tripping <ul style="list-style-type: none"> • minimum • maximum 	375 A 2 500 A
adjustable current response value current / for G-tripping / with standard characteristic <ul style="list-style-type: none"> • initial value • full-scale value 	50 A 250 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic <ul style="list-style-type: none"> • maximum 	0.3 s
adjustable setting current (InN) / for N-tripping <ul style="list-style-type: none"> • minimum • maximum 	0 A 0 A
product function / grounding protection	Yes

Mechanical Design

product component <ul style="list-style-type: none"> • undervoltage release • voltage trigger • trip indicator 	No No 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
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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																																			
General Product Approval																																			
<div><div> EG-Konf.</div><div></div><div> CCC</div><div>Confirmation</div><div> VDE</div><div>Miscellaneous</div></div>																																			
General Product Approval		EMV		Test Certificates		Marine / Shipping																													
		 RCM		Special Test Certificate		Miscellaneous		Type Test Certificates/Test Report		 ABS																									
Marine / Shipping						other																													
 BUREAU VERITAS						 DNV						 LRS						CCS (China Classification Society)						Confirmation						Miscellaneous					
other		Dangerous Good		Environment																															
Miscellaneous		Transport Information		 EPD		 Siemens EcoTech				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=3VA2225-5HM32-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-5HM32-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-5HM32-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications																																			

