

Siemens
EcoTech



circuit breaker 3VA2 IEC frame 630 breaking capacity class C $I_{cu}=110\text{kA}$ @ 415V
4-pole, line protection ETU330, LIG, $I_n=630\text{A}$ overload protection $I_r=250\text{A}\dots630\text{A}$
short-circuit protection $I_i=1.5\dots9\times I_n$ N conductor protection adjustable (OFF, 50%,
100%) ground-fault protection $I_g=0.2\dots1\times I_n=$ 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	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	162 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	54 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	5 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Summation current formation L + N conductor
product function	
• communication function	No
• other measurement function	No
Net Weight	6.692 kg
Current	
operational current	
• at 40 °C	630 A
• at 45 °C	612 A
• at 50 °C	593 A
• at 55 °C	575 A
• at 60 °C	557 A
• at 65 °C	538 A
• at 70 °C	520 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (I_{cu})	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA

• at 500 V • at 690 V	85 kA
operating short-circuit current breaking capacity (Ics)	6 kA
• at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	150 kA
	110 kA
	110 kA
	65 kA
	6 kA
short-circuit current making capacity (Icm)	
• at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	330 kA
	242 kA
	242 kA
	187 kA
	9 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 • maximum	250 A
	630 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum • maximum	0.5 s
	12 s
adjustable response value setting current (Ii) / for I-tripping	
• minimum • maximum	945 A
	5 670 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value • full-scale value	126 A
	630 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic	
• maximum	0.3 s
adjustable setting current (InN) / for N-tripping	
• minimum • maximum	315 A
	630 A
design of the N-conductor protection	adjustable OFF; 50%; 100%
product function / grounding protection	Yes

Mechanical Design

product component	
• undervoltage release • voltage trigger • trip indicator	No
	No
	No
height [in]	9.76 in
height	248 mm
width [in]	7.24 in
width	184 mm
depth [in]	4.33 in
depth	110 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	20 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	35 x 10 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)	silver

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	
Siemens Eco Profile (SEP)	Siemens EcoTech
reference code / according to IEC 81346-2	Q
Approvals / Certificates	
General Product Approval	



[Confirmation](#)



[Miscellaneous](#)

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

Marine / Shipping					other
				CCS (China Classification Society)	Confirmation

other	Dangerous Good		Environment		
Miscellaneous	Miscellaneous	Transport Information			Environmental Confirmations

Environment
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=3VA2463-7HM42-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA2463-7HM42-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2463-7HM42-0AA0
CAX-Online-Generator http://www.siemens.com/cax
Tender specifications



