

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 630 breaking capacity class H $I_{cu}=85 \text{ kA @ } 415 \text{ V}$
3-pole, line protection ETU850, LSI, $I_n=630 \text{ A}$ overload protection $I_r=250 \text{ A} \dots 630 \text{ A}$
short-circuit protection $I_{sd}=0.6 \dots 9 \times I_n$, $I_i=1.5 \dots 9 \times I_n$ neutral 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	ETU850
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	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	Yes
ground-fault monitoring version	Without
product function	
• communication function	Yes
• other measurement function	Yes
Net Weight	5.27 kg
Current	
operational current	
• at 40 °C	630 A
• at 45 °C	600 A
• at 50 °C	570 A
• at 55 °C	540 A
• at 60 °C	510 A
• at 65 °C	480 A
• at 70 °C	450 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	H
maximum short-circuit current breaking capacity (I_{cu})	
• at 240 V	110 kA

• at 415 V • at 440 V • at 500 V • at 690 V	85 kA 85 kA 55 kA 6 kA
operating short-circuit current breaking capacity (Ics) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	110 kA 85 kA 85 kA 55 kA 6 kA
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	242 kA 187 kA 187 kA 121 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	252 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 (Isd) / of S-trip / with I0t characteristic • minimum • maximum	378 A 5 670 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic • minimum • maximum	378 A 5 670 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic • minimum • maximum	0.05 s 0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic • minimum • maximum	0.05 s 0.5 s
adjustable response value setting current (Ii) / for I-tripping • minimum • maximum	945 A 5 670 A
adjustable setting current (InN) / for N-tripping • minimum • maximum	126 A 1 008 A
design of the N-conductor protection	adjustable OFF; 20% to 160%
product function / grounding protection	No
Mechanical Design	
product component • undervoltage release • voltage trigger • trip indicator	No No No
height [in]	9.76 in
height	248 mm
width [in]	5.43 in
width	138 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						
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							
global warming potential [CO2 eq] / total	495 kg						
global warming potential [CO2 eq] / during manufacturing	28.7 kg						
global warming potential [CO2 eq] / during operation	470 kg						
global warming potential [CO2 eq] / after end of life	-4.07 kg						
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		Maritime application	
		Special Test Certificate	Miscellaneous				
Maritime application				other			
			CCS (China Classification Society)		Confirmation		
other		Dangerous goods		Environment			
Miscellaneous	Transport Information			Environmental Confirmations	Environmental Confirmations		
Further information							

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2463-6KP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2463-6KP32-0AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2463-6KP32-0AA0

CAX-Online-Generator

<https://www.siemens.com/cax>

Tender specifications

<https://www.siemens.com/specifications>



