

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 250 breaking capacity class H $I_{cu}=85 \text{ kA} @ 415 \text{ V}$
3-pole, line protection ETU550, LSI, $I_n=250 \text{ A}$ overload protection $I_r=100 \text{ A} \dots 250 \text{ A}$
short-circuit protection $I_{sd}=0.6 \dots 10 \times I_n$, $I_i=1.5 \dots 10 \times I_n$ 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	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/retrofitable / short-circuit and overload proof	Yes
ground-fault monitoring version	Without
product function	
• communication function	Yes
• other measurement function	No
Net Weight	2.238 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	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 3 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 3 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 4.5 kA
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic • minimum • maximum	100 A 250 A
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic • minimum • maximum	0.5 s 15 s
adjustable response value setting current (I _{sd}) / of S-trip / with I _{0t} characteristic • minimum • maximum	150 A 2 500 A
adjustable response value setting current (I _{sd}) / of S-trip / with I _{2t} characteristic • minimum • maximum	150 A 2 500 A
adjustable response value delay time (t _{sd}) / for S-tripping / with I _{0t} characteristic • minimum • maximum	0.05 s 0.5 s
adjustable response value delay time (t _{sd}) / for S-tripping / with I _{2t} characteristic • minimum • maximum	0.05 s 0.5 s
adjustable response value setting current (I _i) / for I-tripping • minimum • maximum	375 A 2 500 A
adjustable setting current (I _{nN}) / for N-tripping • minimum • maximum	50 A 400 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]	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				
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					
 CCC	 EG-Konf.	 VDE	Miscellaneous		
EMV	Test Certificates		Maritime application		
 RCM	Special Test Certificate	Miscellaneous	Type Test Certificates/Test Report	 ABS	 BUREAU VERITAS
Maritime application			other		
 DNV	 LRS	 RMRS	CCS (China Classification Society)	 产品合格 QC PASS	Confirmation
other	Dangerous goods	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 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=3VA2225-6JP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-6JP32-0AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-6JP32-0AA0

CAX-Online-Generator

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

Tender specifications

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



