

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 400 breaking capacity class M $I_{cu}=55 \text{ kA @ } 415 \text{ V}$
4-pole, line protection ETU550, LSI, $I_n=400 \text{ A}$ overload protection $I_r=160 \text{ A} \dots 400 \text{ A}$
short-circuit protection $I_{sd}=0.6 \dots 10 \times I_n$, $I_i=1.5 \dots 10 \times I_n$ neutral conductor protection
adjustable (OFF, up to 100%) 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	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	96 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	32 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 200
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	Yes
• other measurement function	No
Net Weight	6.027 kg
Current	
operational current	
• at 40 °C	400 A
• at 45 °C	400 A
• at 50 °C	400 A
• at 55 °C	375 A
• at 60 °C	350 A
• at 65 °C	325 A
• at 70 °C	300 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 • at 440 V • at 500 V • at 690 V	55 kA 55 kA 36 kA 5 kA
operating short-circuit current breaking capacity (Ics) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	85 kA 55 kA 55 kA 36 kA 5 kA
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	187 kA 121 kA 121 kA 75.6 kA 7.5 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 • minimum • maximum	160 A 400 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic • minimum • maximum	0.5 s 17 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic • minimum • maximum	240 A 4 000 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic • minimum • maximum	240 A 4 000 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	600 A 4 000 A
adjustable setting current (InN) / for N-tripping • minimum • maximum	80 A 400 A
design of the N-conductor protection	adjustable OFF; 20% to 100%
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]	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			
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				
 CCC	 EG-Konf.			
	Confirmation			
	 VDE			
	Miscellaneous			
General Product Approval	EMV	Test Certificates	Maritime application	
		 RCM	Miscellaneous	Special Test Certificate
				 ABS
Maritime application				other
 BUREAU VERITAS	 DNV	 LRS	 RMRS	CCS (China Classification Society)
				Confirmation
other	Dangerous goods		Environment	
 产品合格 QC PASS	Miscellaneous	Transport Information	 EPD	 Siemens EcoTech
				 Environmental Confirmations
Environment				

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=3VA2340-5JP42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-5JP42-0AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-5JP42-0AA0

CAX-Online-Generator

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

Tender specifications

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



