

**Siemens
EcoTech**



circuit breaker 3VA2 IEC Frame 400 breaking capacity class C Icu=110 kA @ 415 V 4-pole, line protection ETU320, LI, In=400 A overload protection Ir=160 A...400 A short-circuit protection Ii=1.5...10 x In neutral conductor protection adjustable (OFF, 50%, 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	ETU320
protection function of the overcurrent release	LI
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	No
• other measurement function	No
Net Weight	6.022 kg
Current	
operational current	
• at 40 °C	400 A
• at 45 °C	400 A
• at 50 °C	400 A
• at 55 °C	385 A
• at 60 °C	370 A
• at 65 °C	355 A
• at 70 °C	340 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	150 kA

• at 415 V • at 440 V • at 500 V • at 690 V	110 kA 110 kA 85 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	150 kA 110 kA 110 kA 65 kA 5 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 7.5 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	160 A 400 A
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic • minimum • maximum	0.5 s 17 s
adjustable response value setting current (I _l) / for I-tripping • minimum • maximum	600 A 4 000 A
adjustable setting current (I _{ΔN}) / for N-tripping • minimum • maximum	80 A 400 A
design of the N-conductor protection	adjustable OFF; 50%; 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 - during operation / maximum - during storage / minimum - during storage / maximum	-25 °C 70 °C -40 °C 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	 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=3VA2340-7HL42-0AA0	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-7HL42-0AA0	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-7HL42-0AA0	
CAX-Online-Generator https://www.siemens.com/cax	
Tender specifications https://www.siemens.com/specifications	



