SIEMENS

Data sheet

5SY4550-5

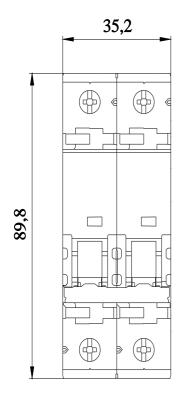


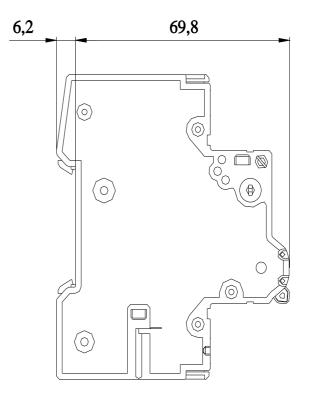
Miniature circuit breaker 230 V 10kA, 1+N-pole, A, 50 A, D=70 mm

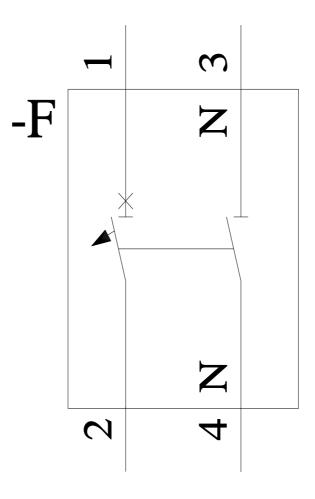
Model					
product brand name	SENTRON				
product designation	Miniature circuit breaker				
General technical data					
number of poles	2				
design of pole	1P+N				
tripping characteristic class	A				
mechanical service life (operating cycles) typical	10 000				
overvoltage category	III				
degree of pollution	3				
Voltage					
type of voltage of the operating voltage	AC				
insulation voltage (Ui)					
 with single-phase operation at AC rated value 	250 V				
supply voltage with single-phase operation at AC rated value	230 V				
operational current					
• at 40 °C rated value	47.6 A				
• at 50 °C rated value	45.1 A				
• at 55 °C rated value	43.75 A				
• at 60 °C rated value	42.4 A				
 at AC rated value 	50 A				
Supply voltage					
supply voltage					
 at AC rated value 	230 V				
at DC rated value	60 V				
value range of the supply voltage frequency	50/60 Hz				
operating voltage at DC rated value maximum	72 V				
Protection class					
protection class IP	IP20, with connected conductors				
Breaking Capacity					
switching capacity current					
 at DC according to IEC 60947-2 rated value 	15 kA				
 according to EN 60898 rated value 	10 kA				
 according to IEC 60947-2 rated value 	15 kA				
Dissipation					
power loss [W] for rated value of the current at AC in hot operating state per pole	4.5 W				
Product details					
product component					
 combined terminal top 	Yes				

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combined terminal bottom	Yes
neutral conductor switching	Yes
product feature	
 properties for main switches in accordance with EN 60204-1 	Yes
halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Product function	
set values setting current (li) for I-tripping	2,5
reference value setting current (li) for I-tripping	xIn
Short circuit	
short-circuit current breaking capacity (Icn)	
at AC according to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
connectable conductor cross-section solid	
minimum	0.75 mm ²
maximum connectable conductor cross section stranded	35 mm²
connectable conductor cross-section stranded	0.75 mm ²
• minimum	0.75 mm ²
maximum	35 mm²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm ²
• maximum	25 mm ²
AWG number as coded connectable conductor cross section	
• minimum	18
• maximum	4
tightening torque [lbf·in] with screw-type terminals	
minimum	22 lbf·in
• maximum	31 lbf-in
tightening torque with screw-type terminals	
minimum	2.5 N·m
• maximum	3.5 N·m
position of power supply cord	Any
Mechanical Design	
	90 mm
height	36 mm
width	76 mm
depth	
installation depth	70 mm
number of modular width units	2 Quick accomply system
fastening method	Quick assembly system
mounting position	any
net weight	327 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
standard	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz
ambient temperature during operation	
• minimum	-40 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6
Approvals Certificates	
General Product Approval	

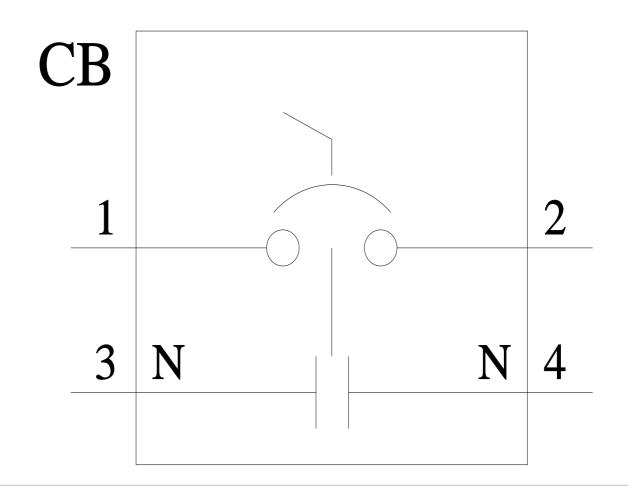
CE EG-Konf.	UK CA	<u>Confirmation</u>	SAN UR	UDE VDE	UDE VDE
General Product Approval			Test Certificates		Marine / Shipping
<u>Miscellaneous</u>	EHC	<u>Miscellaneous</u>	Special Test Certific- ate	<u>Miscellaneous</u>	ABS
Marine / Shipping	other		Railway	Environment	
Lloyd's Register urs	Confirmation	<u>Miscellaneous</u>	<u>Confirmation</u>	Environmental Con- firmations	
Further information Siemens has decided	to exit the Russian mark	ket (see here).			
https://press.siemens.co Siemens is working o Please contact your loc EAC relevant market (c Information on the pa https://support.industry Information- and Dow http://www.siemens.co Industry Mall (Online https://mall.industry.sie Service&Support (Ma https://support.industry Image database (prod	com/global/en/pressrelease on the renewal of the curr cal Siemens office on the s other than the sanctioned E tokaging .siemens.com/cs/ww/en/vi vnloadcenter (Catalogs ordering system) emens.com/mall/en/en/Cata .siemens.com/mall/en/en/Cata .siemens.com/cs/ww/en/ps duct images, 2D dimensio .siemens.com/bilddb/cax_e or m/cax	e/siemens-wind-down-ruse rent EAC certificates. tatus of validity of the EA EAEU member states Rus ew/109813875 Brochures,) alog/product?mlfb=5SY45 acteristics, FAQs,) s/5SY4550-5 on drawings, 3D models	C certification if you intend sia or Belarus). 150-5 , device circuit diagram s		bly these products to an







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