SIEMENS

Data sheet

5SY4510-5

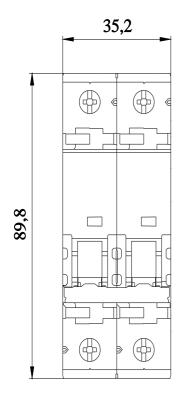


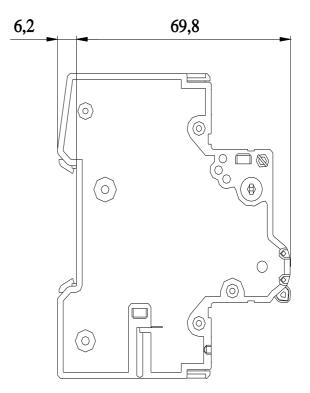
Miniature circuit breaker 230 V 10kA, 1+N-pole, A, 10A, D=70 mm

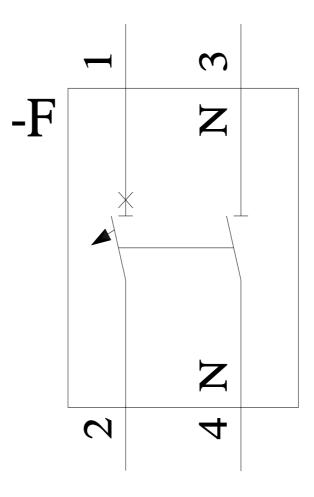
Model						
product brand name	SENTRON					
product designation	Miniature circuit breaker					
General technical data						
number of poles	2					
design of pole	1P+N					
tripping characteristic class	A					
mechanical service life (operating cycles) typical	10 000					
overvoltage category	Ш					
degree 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	9.39 A					
• at 50 °C rated value	8.74 A					
• at 55 °C rated value	8.4 A					
• at 60 °C rated value	8.04 A					
• at AC rated value	10 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 	20 kA					
Dissipation						
power loss [W] for rated value of the current at AC in hot operating state per pole	2 W					
Product details						
product component						
combined terminal top	Yes					

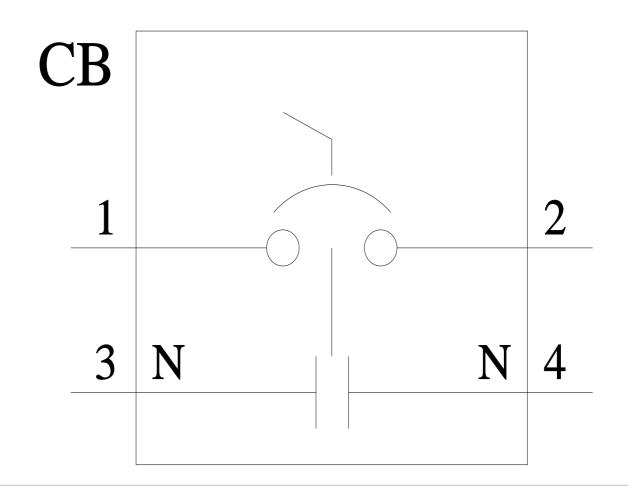
combined terminal bottom	Yes
neutral conductor switching	Yes
product feature	
 properties for main switches in accordance with EN 60204-1 	Yes
halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Product function	
set values setting current (li) for I-tripping	2,5
reference value setting current (li) for I-tripping	x ln
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	0.75
• minimum	0.75 mm ²
maximum	35 mm²
connectable conductor cross-section stranded	
• minimum	0.75 mm ²
• maximum	35 mm²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm²
• maximum	25 mm ²
AWG number as coded connectable conductor cross section	25 11111
	10
• 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	0.5 N
• minimum	2.5 N·m
• maximum	3.5 N·m
position of power supply cord	Any
Mechanical Design	
height	90 mm
width	36 mm
depth	76 mm
installation depth	70 mm
number of modular width units	2
fastening method	Quick assembly system
mounting position	any
net weight	320 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/s² 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	

UK CA	CE EG-Konf.	<u>Confirmation</u>	GN UR	VDE VDE	DE VDE		
General Product App	roval		Test Certificates		Marine / Shipping		
<u>Miscellaneous</u>	EAC	<u>Miscellaneous</u>	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping	other		Railway	Environment			
Lloyds Register urs	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Confirmation</u>	Environmental Con- firmations			
Further information							
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4510-5 Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://www.automation.siemens.com/cs/ww/en/ps/SSY4510-5 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4510-5 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/cax							









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