SIEMENS

Data sheet

5SY4510-6



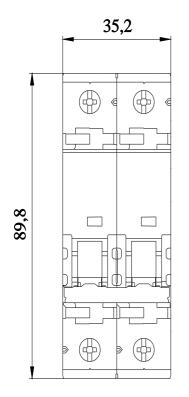
Miniature circuit breaker 230 V 10kA, 1+N-pole, B, 10A, D=70 mm

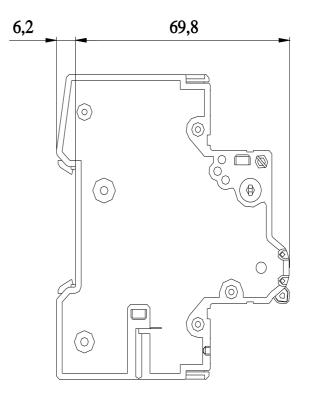
Model						
product brand name	SENTRON					
product designation	Miniature circuit breaker					
General technical data						
number of poles	2					
design of pole	1P+N					
tripping characteristic class	В					
mechanical service life (operating cycles) typical	10 000					
overvoltage category	Ш					
degree 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					
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					
Switching 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					
energy limitation class	3					
Dissipation						
power loss [W] for rated value of the current at AC in hot operating state per pole	1.3 W					
suitability for operation	Mechanical engineering / industry					
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 	Yes					

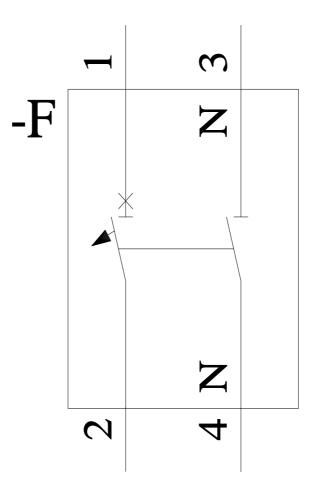
60204-1	
halogen-free	Yes
• sealable	Yes
silicon-free	Yes
product extension installable supplementary devices	Yes
Short circuit	
short-circuit current breaking capacity (Icn)	
at AC according to UL 1077 and CSA C22.2 No.2	235 5 kA
Connections	
connectable conductor cross-section solid	
minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section stranded	
minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section finely stranded with end processing	
minimum	0.75 mm²
• minimum • maximum	0.75 mm ²
AWG number as coded connectable conductor cross set	
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	, wy
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	312 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	ig to IEC 6
60068-2-30	
General Product Approval	
<u>Confirmation</u>	Miscellaneous UR VDE
General Product Ap- proval EMC Decl	laration of Conformity Test Certificates

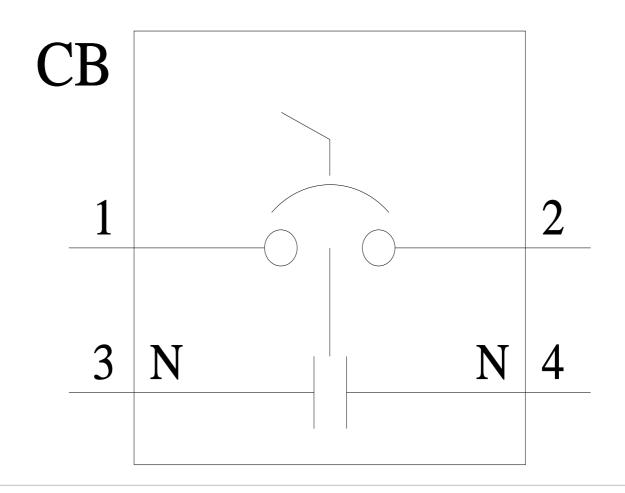
EAC	RCM	UK CA	C C EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>		
Marine / Shipping					other		
ABS	BUREAU VERITAS	Llovd's Register us	RINA	DINV-GL.	<u>Confirmation</u>		
other	Railway		Environment				
<u>Miscellaneous</u>	Vibration and Shock	<u>Confirmation</u>	Environmental 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=5SY4510-6							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/5SY4510-6							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) <u>http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4510-6</u> CAx-Online-Generator							

CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications









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