SIEMENS

Data sheet

5SY4503-7



Miniature circuit breaker 230 V 10kA, 1+N-pole, C, 3 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	С				
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				
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 	35 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 • sealable • silicon-free product extension installable supplementary devices Short circuit	Yes Yes Yes		
sealable silicon-free product extension installable supplementary devices	Yes Yes		
silicon-free product extension installable supplementary devices	Yes		
product extension installable supplementary devices			
	Yes		
	100		
short-circuit current breaking capacity (Icn)			
at AC according to UL 1077 and CSA C22.2 No.235	5 kA		
Connections	3 1/4		_
connectable conductor cross-section solid			
minimum	0.75 mm²		
• maximum	35 mm ²		
connectable conductor cross-section stranded	55 mm		
minimum	0.75 mm²		
• maximum	35 mm ²		
connectable conductor cross-section finely stranded with core	35 mm		
end processing			
• minimum	0.75 mm ²		
• maximum	25 mm²		
AWG number as coded connectable conductor cross section	40		
• 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			
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	319 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 2	25 to 150Hz	
ambient temperature during operation	40.80		
• minimum	-40 °C		
• maximum	70 °C		
ambient temperature during storage	10.00		
• minimum	-40 °C		
• maximum	75 °C		
number of test cycles for environmental testing according to IEC 60068-2-30	6		
General Product Approval			
			<u>Miscellaneous</u>

EAC		UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Miscellaneous</u>
Marine / Shipping					other
ABS	B UREAU VERITAS	Lloyd's Register urs	RINA	DNV-GL	<u>Miscellaneous</u>
other	Railway		Environment		
<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Environmental Con- firmations		
urther information	d to exit the Russian ma	irket (see here).			
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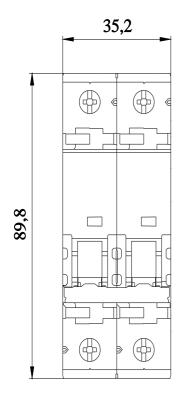
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY4503-7

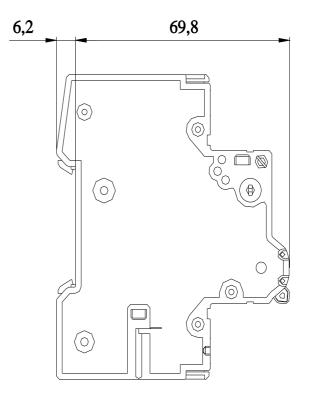
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4503-7

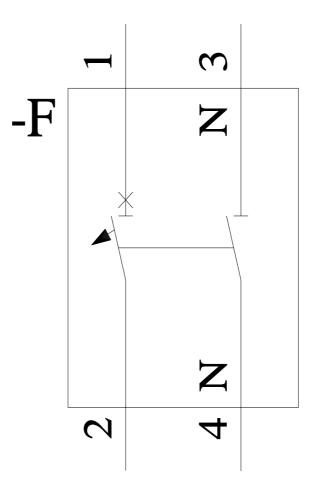
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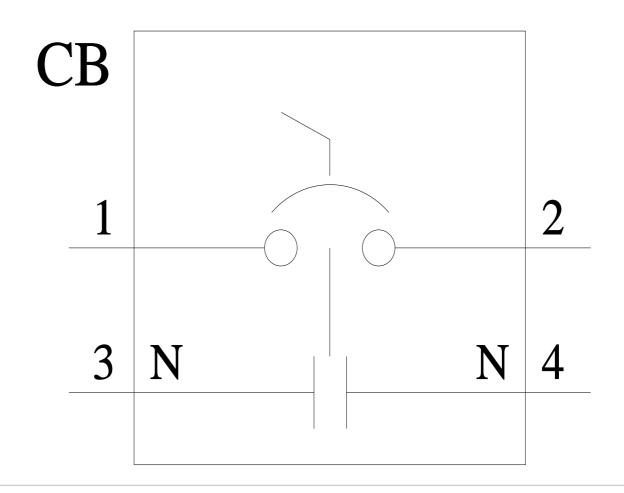
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Tender specifications http://www.siemens.com/specifications









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