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Data sheet

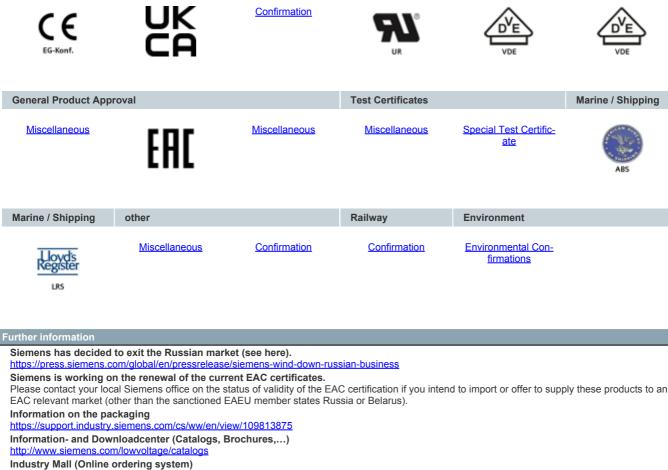
5SY4504-5



Miniature circuit breaker 230 V 10kA, 1+N-pole, A, 4A, 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	3.76 A	
• at 50 °C rated value	3.5 A	
• at 55 °C rated value	3.36 A	
• at 60 °C rated value	3.22 A	
 at AC rated value 	4 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 	35 kA	
Dissipation		
power loss [W] for rated value of the current at AC in hot operating state per pole	2.3 W	
Product details		
product component		
combined terminal top	Yes	

	Ver
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 (Ii) 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	35 mm ²
connectable conductor cross-section stranded	
minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section finely stranded with core	
end processing	
• minimum	0.75 mm ²
• maximum	25 mm²
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	
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	326 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	
σεπείαι Εισααεί Αρμίσναι	



https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4504-5

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/5SY4504-5

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

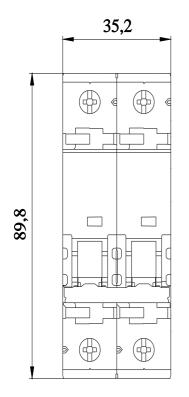
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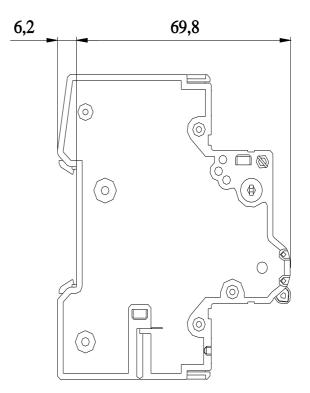
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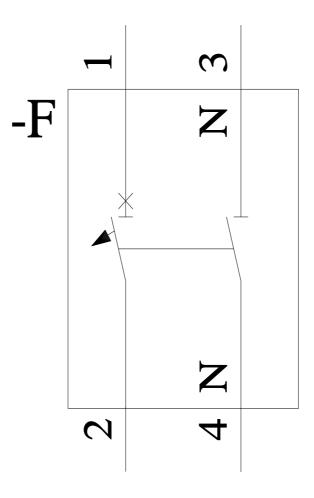
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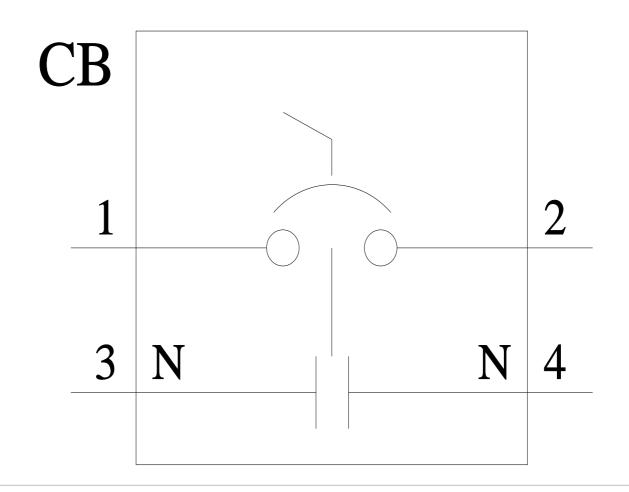
Tender specifications

http://www.siemens.com/specifications









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