SIEMENS

Data sheet 5SY4504-6



circuit breaker 230/400v 10ka, 1pole+N, b, 4a

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	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		
operational current			
 at 40 °C rated value 	3.76 A		
• at 50 °C rated value	3.68 A		
• at 55 °C rated value	3.59 A		
• at 60 °C rated value	3.5 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			
 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	1.5 W		
Product details			
product component			
 combined terminal top 	Yes		
 combined terminal bottom 	Yes		

• neutral conductor switching	Yes
neutral conductor switching product feature	165
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	165
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set values setting current (II) for I-tripping	
reference value setting current (Ii) for I-tripping	x ln
Connections	
connectable conductor cross-section solid	2 2
• 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 mm²
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	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
	1 1111111 at 5 to 20112, 30111/5 at 25 to 150112
ambient temperature during operation • minimum	-40 °C
	70 °C
maximum ambient temperature during storage	70 C
ambient temperature during storage	40 °C
• minimum	-40 °C
maximum number of test cycles for environmental testing according to IEC cones 2 20	75 °C 6
60068-2-30	
Approvals Certificates	
General Product Approval	





Confirmation



Miscellaneous



General Product Approval	Test Certificates		Marine / Shipping	other	
Miscellaneous	Special Test Certificate	Miscellaneous	Lloyd's Register	Confirmation	<u>Miscellaneous</u>

Railway	Environment

<u>Confirmation</u> <u>Environmental Confirmations</u>

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=5SY4504-6

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4504-6

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

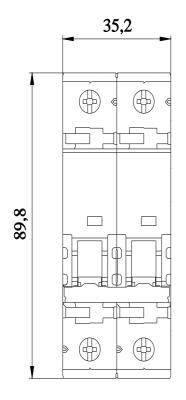
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4504-6

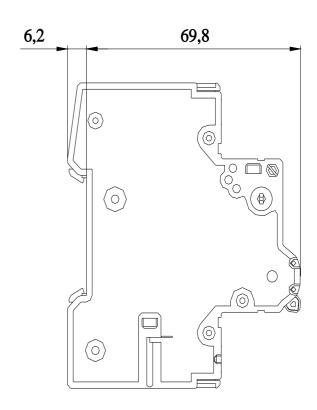
CAx-Online-Generator

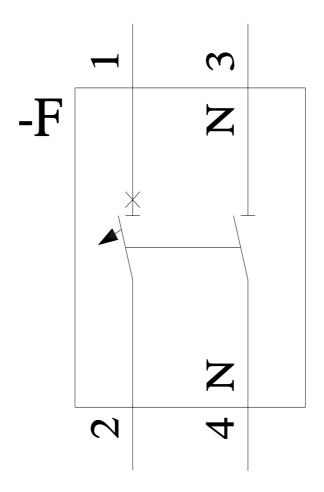
http://www.siemens.com/cax

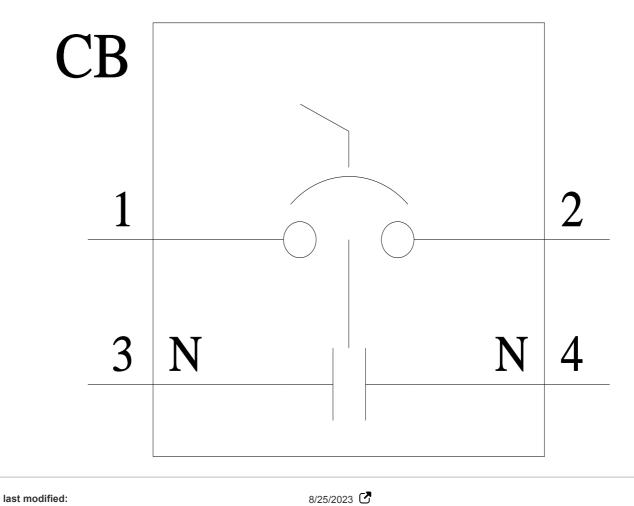
Tender specifications

http://www.siemens.com/specifications









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