SIEMENS

Data sheet

5SY4525-7



Miniature circuit breaker 230 V 10kA, 1+N-pole, C, 25A, 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	C				
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	2.2 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 (lcn)	
• 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 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 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
installation depth number of modular width units	70 mm 2
number of modular width units	2
number of modular width units fastening method mounting position net weight	2 Quick assembly system
number of modular width units fastening method mounting position	2 Quick assembly system any
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number of modular width units fastening method mounting position net weight Environmental conditions	2 Quick assembly system any 317 g
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number of modular width units fastening method mounting position net weight Environmental conditions influence of the surrounding temperature standard vibration resistance according to IEC 60068-2-6	2 Quick assembly system any 317 g max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-1, IEC / EN 60947-2 / UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz -40 °C
number of modular width units fastening method mounting position net weight Environmental conditions influence of the surrounding temperature standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation	2 Quick assembly system any 317 g max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-1, IEC / EN 60947-2 / UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
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number of modular width units fastening method mounting position net weight Environmental conditions influence of the surrounding temperature standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum	2 Quick assembly system any 317 g max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-1, IEC / EN 60947-2 / UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz -40 °C 70 °C -40 °C 75 °C
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EHC	RCM	CE EG-Konf.	UK CA	<u>Miscellaneous</u>	Special Test Certific- ate
Marine / Shipping					other
ABS	BUREAU VERITAS	Lloyds Register uis	RINA	DNV-GL DNV-GL	<u>Miscellaneous</u>
other	Railway		Environment		
<u>Confirmation</u>	Vibration and Shock	<u>Confirmation</u>	Environmental Con- firmations		
Further information	to ovit the Pussian marke				

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=5SY4525-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4525-7

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

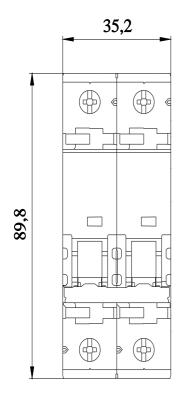
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4525-7

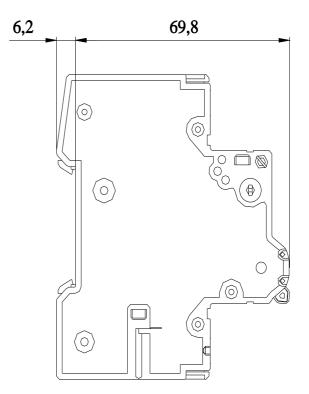
CAx-Online-Generator

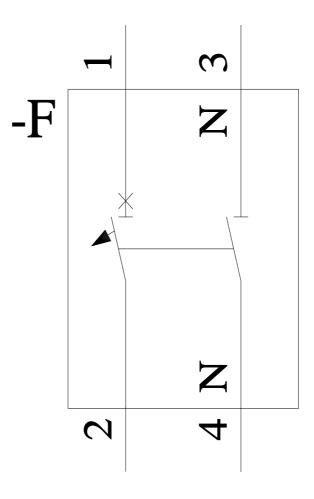
http://www.siemens.com/cax

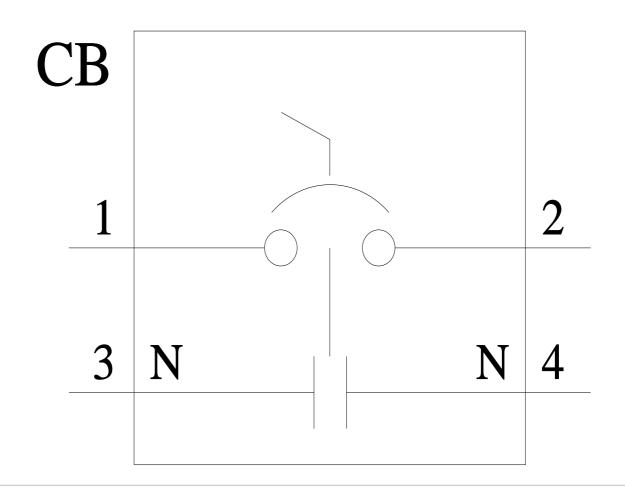
Tender specifications

http://www.siemens.com/specifications









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