SIEMENS

Data sheet

5SY4540-7



Miniature circuit breaker 230 V 10kA, 1+N-pole, C, 40A, 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					
operational current						
• at 40 °C rated value	37.56 A					
 at 50 °C rated value 	34.96 A					
• at 55 °C rated value	33.6 A					
 at 60 °C rated value 	32.16 A					
 at AC rated value 	40 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 	15 kA					
energy limitation class	3					
Dissipation						
power loss [W] for rated value of the current at AC in hot operating state per pole	3.5 W					
Product details						
product component						

combined terminal top	Yes
-	Yes
combined terminal bottom pourtral conductor switching	
neutral conductor switching	Yes
 product feature properties for main switches in accordance with EN 60204-1 	Yes
halogen-free	Yes
• sealable	Yes
sectable silicon-free	Yes
product extension installable supplementary devices	Yes
Product extension installable supplementary devices	
	7
set values setting current (li) for I-tripping	
reference value setting current (li) for I-tripping	x In
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 mm ²
• maximum	35 mm ²
connectable conductor cross-section finely stranded with core end processing	55 mm
• minimum	0.75 mm ²
• maximum	25 mm ²
AWG number as coded connectable conductor cross section	25 1111
• 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	318 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
	-40 °C 75 °C
maximum number of test cycles for environmental testing according to IEC	6
60068-2-30	
Approvals Certificates	
General Product Approval	

CE EG-Konf.	UK CA	<u>Confirmation</u>			SN UR
General Product App	proval		EMV	Test Certificates	
	<u>Miscellaneous</u>	EHC	RCM	Special Test Certific- ate	<u>Miscellaneous</u>
Marine / Shipping					other
ABS	BUREAU		Lloyds Register us	RINA	<u>Confirmation</u>
other	Railway	Environment			
Miscellaneous	Confirmation	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=5SY4540-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4540-7

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

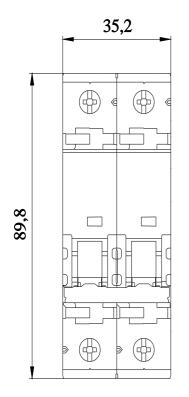
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4540-7

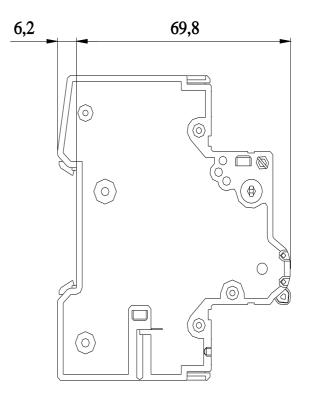
CAx-Online-Generator

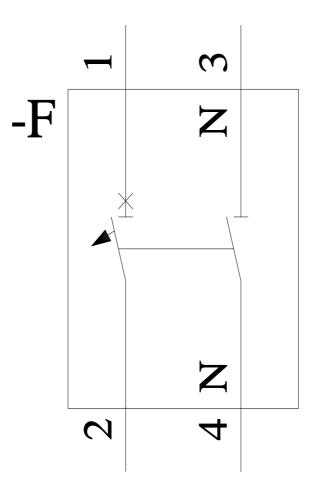
http://www.siemens.com/cax

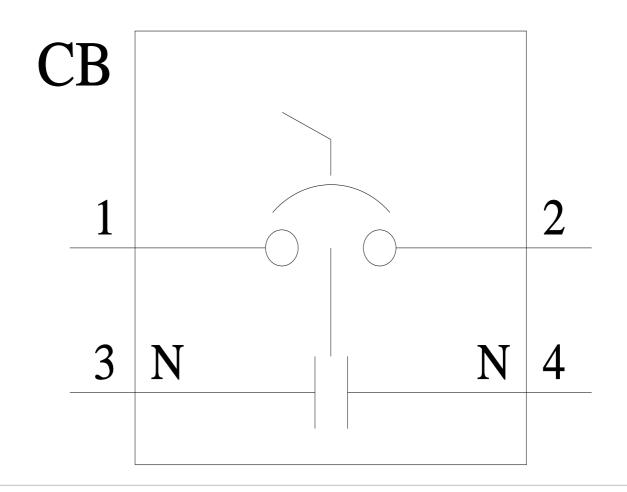
Tender specifications

http://www.siemens.com/specifications









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