SIEMENS

Data sheet

5SY4516-8



Miniature circuit breaker 230 V 10kA, 1+N-pole, D, 16A, 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	D
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 	20 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.6 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 60204-1 	Yes

halogen-free	Yes			
• sealable	Yes			
• silicon-free	Yes			
product extension installable supplementary devices	Yes			
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 mm²			
• maximum	35 mm²			
connectable conductor cross-section stranded				
• minimum	0.75 mm²			
• maximum	35 mm²			
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	298 g			
Environmental conditions				
influence of the surrounding temperature	max. 95% to 55°C, max. 55% t	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			
General Product Approval				
		-		
Confirmation (C)	SI	DE	<u>Miscellaneous</u>	
	UR	VDE		
General Product Ap- proval EMC Declaration o	f Conformity	Test Certificates		
proval	l'oomonnity	rest octanicates		

EHC	RCM	CE EG-Konf.	UK CA	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					other
ABS	BUREAU VERITAS	Llovd's Register uts	RINA	DNV-GL DNV-GL	<u>Confirmation</u>
other	Railway		Environment		
<u>Miscellaneous</u>	Vibration and Shock	<u>Confirmation</u>	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=5SY4516-8

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4516-8

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

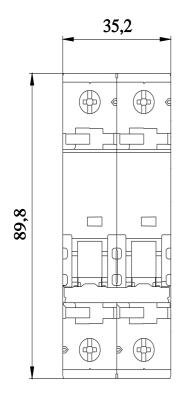
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4516-8

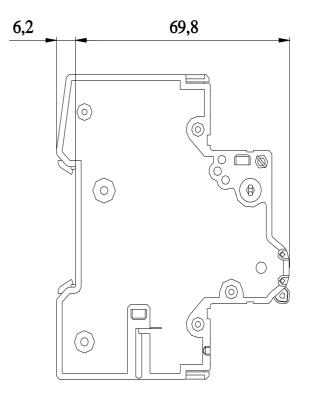
CAx-Online-Generator

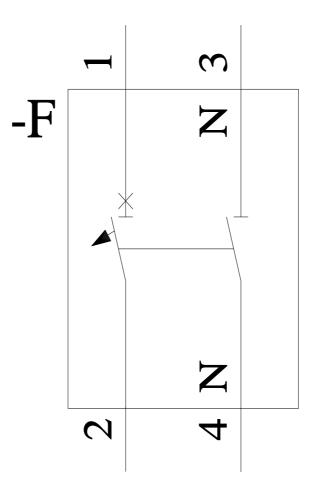
http://www.siemens.com/cax

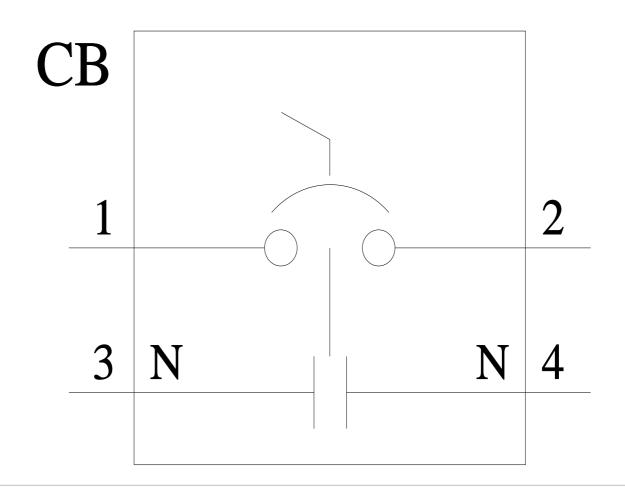
Tender specifications

http://www.siemens.com/specifications









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