SIEMENS

Data sheet

5SY4616-5



Miniature circuit breaker 400 V 10kA, 3+N-pole, A, 16A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	4
design of pole	3P+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 	440 V
 with multi-phase operation at AC rated value 	440 V
supply voltage with single-phase operation at AC rated value	230 V
Supply voltage	
supply voltage	
 at AC rated value 	400 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	2.5 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 device	ces	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 mm ²				
• maximum		35 mm²				
connectable conductor cross-section stranded						
• minimum		0.75 mm ²				
• maximum		35 mm²				
connectable conductor cross-section finely strand end processing	ed with core					
• minimum		0.75 mm²				
• maximum		25 mm²				
AWG number as coded connectable conductor cr	oss 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		72 mm				
depth		76 mm				
installation depth		70 mm				
number of modular width units		4				
fastening method		Quick assembly system				
mounting position		any				
net weight		630 g				
Environmental conditions						
influence of the surrounding temperature		max. 95%	to 55°C, max. 55%	to 70°C, max. 35% to 7	′5°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				
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 ac 60068-2-30	ccording to IEC	6				
General Product Approval						
Confirmation			<u>Miscellaneous</u>	EHC	<u>Miscellaneous</u>	
Declaration of Conformity	Test Certificate	s		Marine / Shipping		

UK CA	CE EG-Konf.	<u>Miscellaneous</u>	Special Test Certific- ate	ABS	Lloyd's Kegister uts
other		Railway		Environment	
Miscellaneous	<u>Confirmation</u>	<u>Vibration and Shock</u>	<u>Confirmation</u>	Environmental Con- firmations	
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Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4616-5

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY4616-5

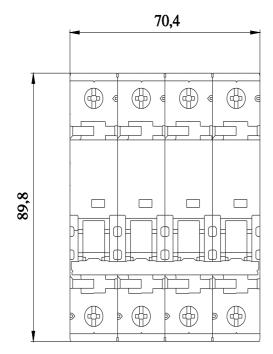
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

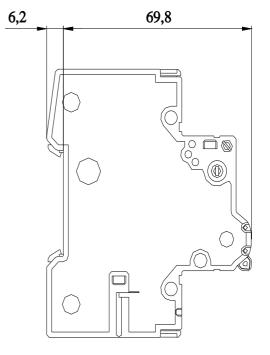
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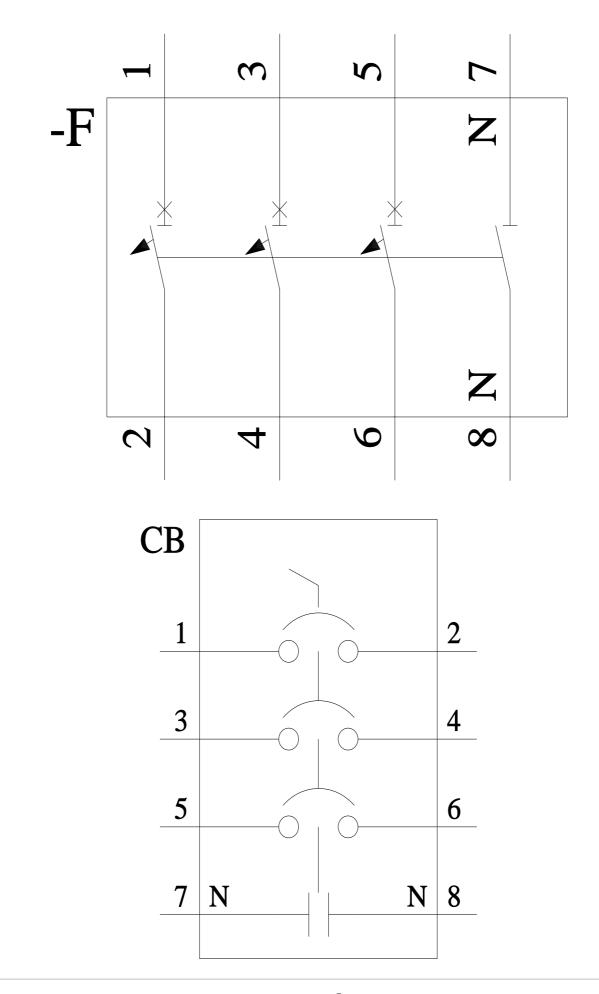
CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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