## **SIEMENS**

Data sheet 5SY4420-7



Miniature circuit breaker 400 V 10kA, 4-pole, C, 20 A, D=70 mm

Model			
product brand name	SENTRON		
product designation	Miniature circuit breaker		
General technical data			
number of poles	4		
design of pole	4P		
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)			
<ul> <li>with single-phase operation at AC rated value</li> </ul>	440 V		
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	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			
<ul> <li>at DC according to IEC 60947-2 rated value</li> </ul>	15 kA		
<ul> <li>according to EN 60898 rated value</li> </ul>	10 kA		
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	20 kA		
energy limitation class	3		
Dissipation			
power loss [W] for rated value of the current at AC in hot operating state per pole	1.7 W		
suitability for operation	Mechanical engineering / industry		
Product details			
product component			
combined terminal top	Yes		
combined terminal bottom	Yes		
neutral conductor switching	No		
product feature			

<ul> <li>properties for main switches in accordance with EN 60204-1</li> </ul>	Yes		
• halogen-free	Yes		
• sealable	Yes		
• silicon-free	Yes		
	Yes		
product extension installable supplementary devices	Tes		
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 mm <sup>2</sup>		
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	72 mm		
	76 mm		
depth			
installation depth	70 mm		
number of modular width units	4		
fastening method	Quick assembly system		
mounting position	any		
net weight	622 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		
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







Miscellaneous

General Product Approval	EMC	Declaration of Conformity	
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**Miscellaneous** 







Test Certificates

Marine / Shipping

Special Test Certificate

**Miscellaneous** 









Marine / Shipping

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Railway

Environment



Confirmation

**Miscellaneous** 

Confirmation

Vibration and Shock

Environmental Confirmations

## 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=5SY4420-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4420-7

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

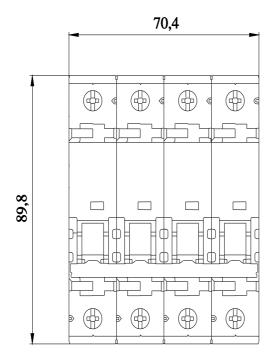
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SY4420-7

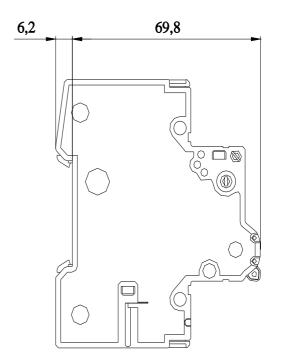
**CAx-Online-Generator** 

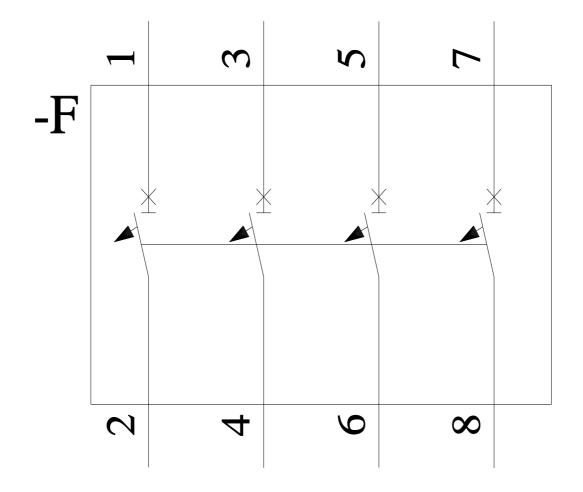
http://www.siemens.com/cax

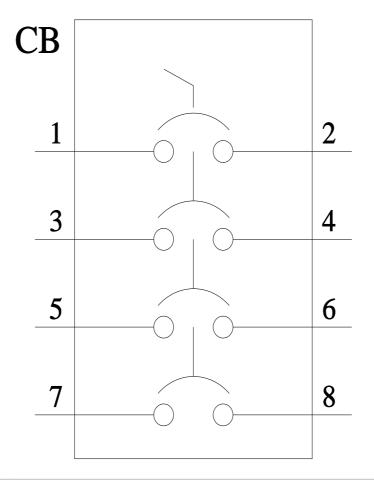
Tender specifications

http://www.siemens.com/specifications









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Siemens: 5SY44207