## **SIEMENS**

Data sheet 5SY8610-8



Miniature circuit breaker 400 V D=70 mm 25 kA according to EN 60947-2, 3P+N, D10  $\,$ 

1000	
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	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)	
<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
operational current	
• at 50 °C rated value	9.75 A
• at 55 °C rated value	9.49 A
at AC rated value	10 A
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
Breaking Capacity	
switching capacity current	
<ul> <li>at DC according to IEC 60947-2 rated value</li> </ul>	15 kA
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	40 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	0.9 W
Product details	
product component	
<ul> <li>combined terminal top</li> </ul>	Yes
<ul> <li>combined terminal bottom</li> </ul>	Yes
neutral conductor switching	Yes

product feature		
<ul> <li>properties for main switches in accordance with EN 60204-1</li> </ul>	Yes	
<ul><li>halogen-free</li></ul>	Yes	
• sealable	Yes	
• silicon-free	Yes	
product extension installable supplementary devices	Yes	
Product function		
set values setting current (li) for I-tripping	16	
reference value setting current (Ii) 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 mm²	
maximum	35 mm <sup>2</sup>	
connectable conductor cross-section stranded		
minimum	0.75 mm²	
maximum	35 mm <sup>2</sup>	
connectable conductor cross-section finely stranded with core	00 111111	
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	
depth	76 mm	
installation depth	70 mm	
number of modular width units	4	
fastening method	Quick assembly system	
mounting position	any	
net weight	571 g	
Environmental conditions	57.19	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C	
standard	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	2 mm at 0 to 20112, 00111/3 at 20 to 100112	
minimum	-25 °C	
maximum	-25 °C	
ambient temperature during storage	40 °C	
• minimum	-40 °C	
maximum  Tumber of test system for any ironmental testing according to IEC.	75 °C	
number of test cycles for environmental testing according to IEC 60068-2-30	6	
Approvals Certificates		
General Product Approval		











other Environment

<u>Confirmation</u> <u>Miscellaneous</u> <u>Environmental Confirmations</u>

## 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=5SY8610-8

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY8610-8

Tittps://outport.industry.sicmens.com/cs/ww/en/ps/com/com/c

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

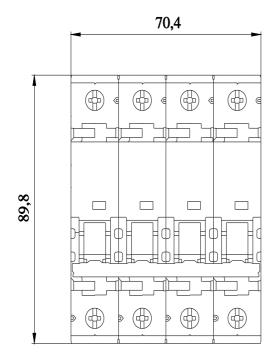
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SY8610-8

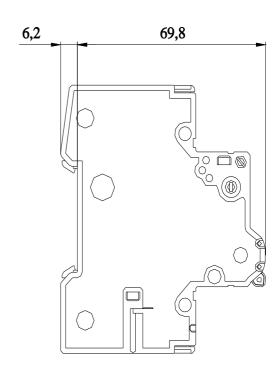
CAx-Online-Generator

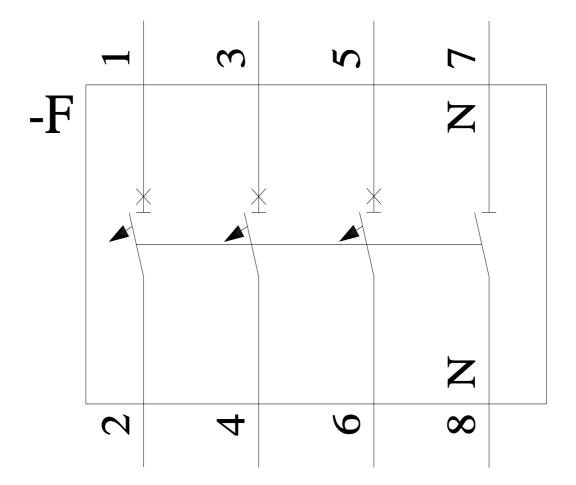
http://www.siemens.com/cax

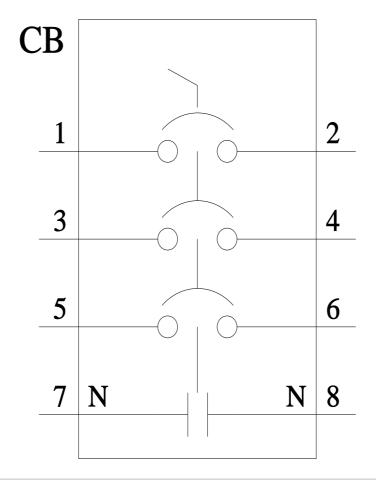
**Tender specifications** 

http://www.siemens.com/specifications









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