SIEMENS

Data sheet 5SY8101-8



Circuit breaker 230/400 V D=70 mm 25 kA according to EN 60947-2, 1P, D1

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
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 	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 IEC 60947-2 rated value 	70 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.1 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	
 properties for main switches in accordance with EN 60204-1 	Yes

General Product Approval	Declaration of Conformity
number of test cycles for environmental testing according to IEC 60068-2-30	6
maximum number of test evalue for any ironmental testing according to IEC.	75 °C
	-40 °C
ambient temperature during storage • minimum	40 °C
• maximum	-25 °C
minimum	-25 °C
vibration resistance according to IEC 60068-2-6 ambient temperature during operation	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
standard	IEC / EN 60947-2 / UL1077
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
	may 05% to 55°C may 55% to 70°C may 25% to 75°C
Environmental conditions	112 y
net weight	172 g
mounting position	any
fastening method	Quick assembly system
number of modular width units	1
installation depth	70 mm
depth	76 mm
height width	18 mm
	90 mm
Mechanical Design	, uty
position of power supply cord	Any
maximum	3.5 N·m
minimum	2.5 N·m
tightening torque with screw-type terminals	OT IST III
maximum	31 lbf·in
minimum	22 lbf·in
tightening torque [lbf·in] with screw-type terminals	
• maximum	4
minimum	18
AWG number as coded connectable conductor cross section	20 111111
• maximum	25 mm ²
minimum	0.75 mm ²
connectable conductor cross-section finely stranded with core end processing	
• maximum	35 mm²
• minimum	0.75 mm²
connectable conductor cross-section stranded	
maximum	35 mm²
• minimum	0.75 mm²
connectable conductor cross-section solid	
Connections	
 at AC according to UL 1077 and CSA C22.2 No.235 	5 kA
short-circuit current breaking capacity (Icn)	
Short circuit	
product extension installable supplementary devices	Yes
• silicon-free	Yes
• sealable	Yes
• halogen-free	Yes

Confirmation



Miscellaneous







other Environment

Confirmation Miscellaneous

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=5SY8101-8

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY8101-8

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

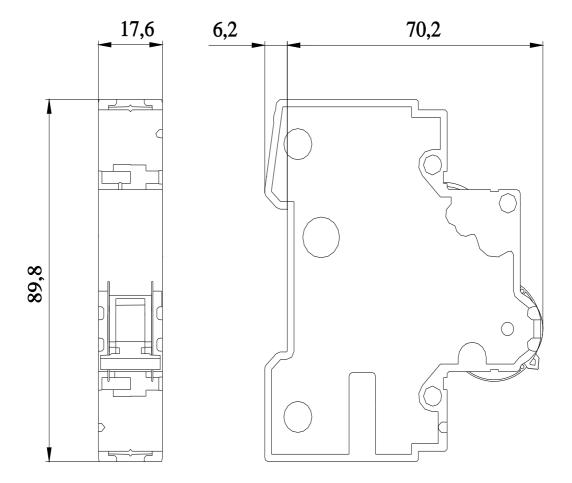
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8101-8

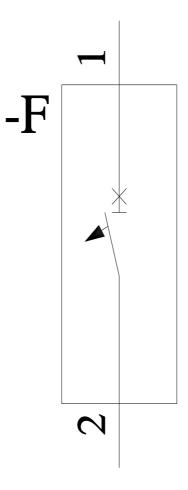
CAx-Online-Generator

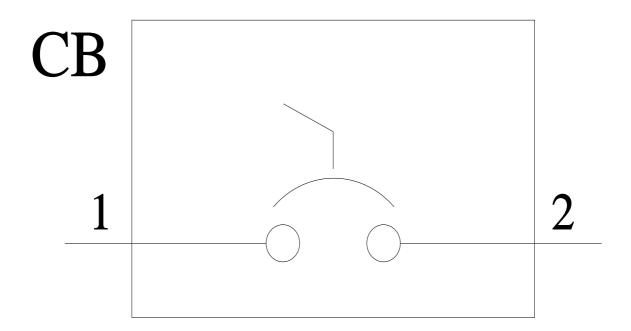
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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