SIEMENS

Data sheet 5SY4101-5



Miniature circuit breaker 230/400 V 10kA, 1-pole, A, 1 A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
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 	35 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	2.1 W
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

• halogen-free	Yes
sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Product function	165
set values setting current (li) for I-tripping	2,5
reference value setting current (II) for I-tripping	x In
Short circuit	A
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 ²
connectable conductor cross-section stranded	
• minimum	0.75 mm²
maximum	35 mm ²
connectable conductor cross-section finely stranded with core	
end processing	
• minimum	0.75 mm ²
• 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
Figure 6 benefit cond	,
Mechanical Design	
	90 mm
Mechanical Design	
Mechanical Design height	90 mm
Mechanical Design height width	90 mm 18 mm
Mechanical Design height width depth	90 mm 18 mm 76 mm
Mechanical Design height width depth installation depth	90 mm 18 mm 76 mm 70 mm
Mechanical Design height width depth installation depth number of modular width units	90 mm 18 mm 76 mm 70 mm
Mechanical Design height width depth installation depth number of modular width units fastening method	90 mm 18 mm 76 mm 70 mm 1
Mechanical Design height width depth installation depth number of modular width units fastening method mounting position	90 mm 18 mm 76 mm 70 mm 1 Quick assembly system any
Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight	90 mm 18 mm 76 mm 70 mm 1 Quick assembly system any
Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions	90 mm 18 mm 76 mm 70 mm 1 Quick assembly system any 167 g
Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions influence of the surrounding temperature	90 mm 18 mm 76 mm 70 mm 1 Quick assembly system any 167 g max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions influence of the surrounding temperature standard	90 mm 18 mm 76 mm 70 mm 1 Quick assembly system any 167 g max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-1, IEC / EN 60947-2 / UL1077
Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions influence of the surrounding temperature standard vibration resistance according to IEC 60068-2-6	90 mm 18 mm 76 mm 70 mm 1 Quick assembly system any 167 g max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-1, IEC / EN 60947-2 / UL1077
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General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous





Miscellaneous

Special Test Certificate



Marine / Shipping

other

Railway

Environment



Confirmation

Miscellaneous

Vibration and Shock

Confirmation

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=5SY4101-5

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4101-5

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

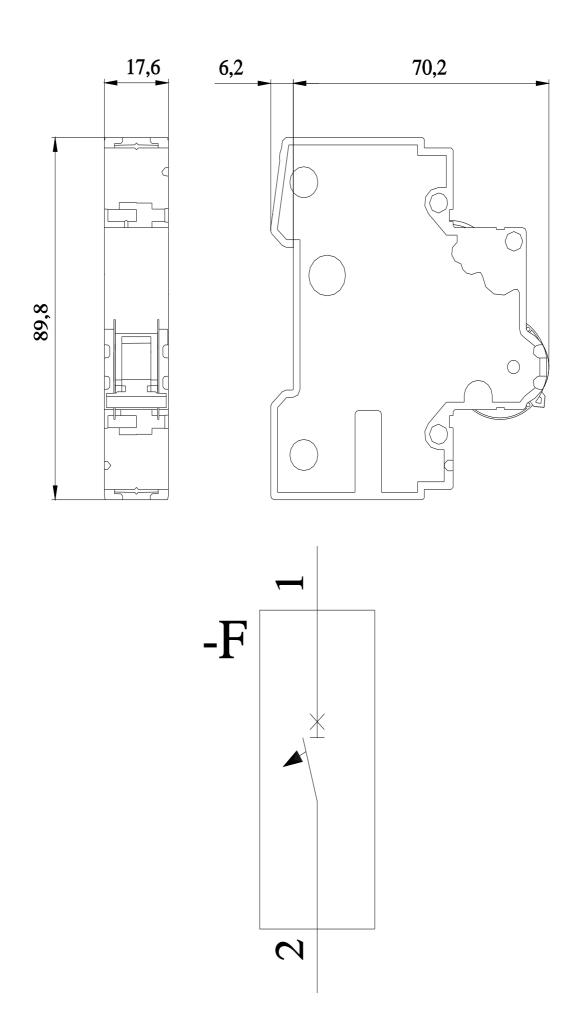
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4101-5

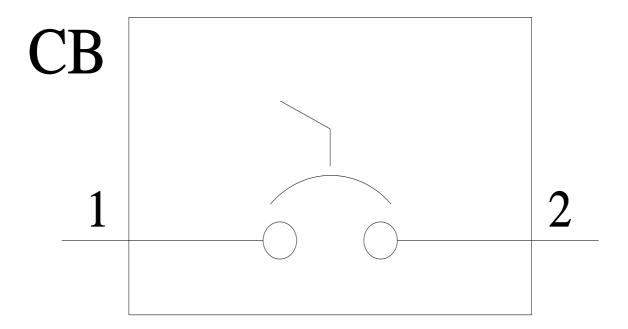
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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