SIEMENS

Data sheet 5SY8306-8



Miniature circuit breaker 400 V D=70 mm 25 kA according to EN 60947-2, 3P, D6

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
design of pole	3P
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 	50 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.6 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

minimum maximum number of test cycles for environmental testing according to IEC 60068-2-30 General Product Approval	-40 °C 75 °C 6
minimum maximum	75 °C
• minimum	
ambient temperature during storage	40.00
• maximum	55 °C
• minimum	-25 °C
ambient temperature during operation	05.00
vibration resistance according to IEC 60068-2-6	±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
Environmental conditions	
net weight	459 g
mounting position	any
fastening method	Quick assembly system
number of modular width units	3
installation depth	70 mm
depth	76 mm
width	54 mm
height	90 mm
Mechanical Design	
position of power supply cord	Any
• maximum	3.5 N·m
• minimum	
tightening torque with screw-type terminals	2.5 N·m
maximum tightoning torque with corew type terminals	31 lbf-in
• minimum	22 lbf-in
tightening torque [lbf-in] with screw-type terminals	22 lbf in
maximum tightoning targue [life in] with corow type terminals.	4
• minimum	18
AWG number as coded connectable conductor cross section	10
maximum AWC number as coded connectable conductor cross section.	25 mm²
end processing • minimum	0.75 mm²
connectable conductor cross-section finely stranded with core	
• 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
halogen-free	Yes

Confirmation



Miscellaneous







other Environment

Miscellaneous 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=5SY8306-8

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY8306-8

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

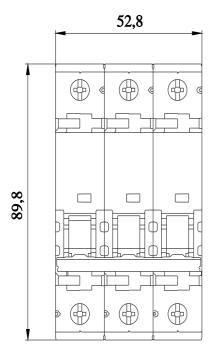
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8306-8

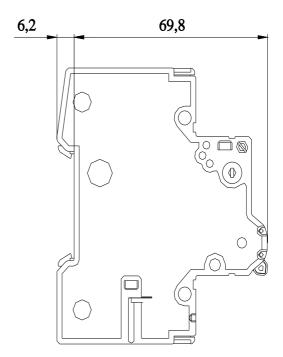
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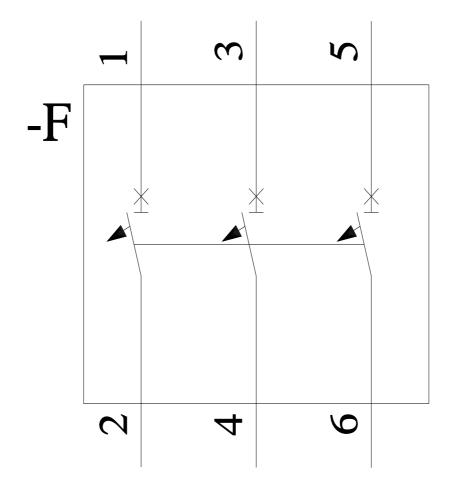
http://www.siemens.com/cax

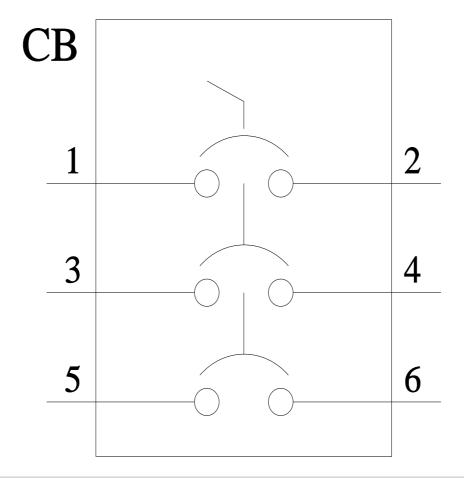
Tender specifications

http://www.siemens.com/specifications









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