SIEMENS

Data sheet 5SY5250-6



Circuit breaker Universal current 440 V DC 400 V AC 10kA, 2-pole, B, 50 A

Model	
product brand name	SENTRON
-	Miniature circuit breaker
product designation	IVIII II I I I I I I I I I I I I I I I
General technical data	
number of poles	2
design of pole	2P
tripping characteristic class	В
mechanical service life (operating cycles) typical	5 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC/DC
insulation voltage (Ui)	
 at DC rated value 	250 V
 with single-phase operation at AC rated value 	440 V
 with multi-phase operation at AC rated value 	440 V
Supply voltage	
supply voltage	
 at AC rated value 	400 V
at DC rated value	440 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	500 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
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	4.3 W
suitability for operation	universal current
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	Yes

60204-1	
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Short circuit	
short-circuit current breaking capacity (Icn)	
at DC according to EN 60898-2	10 kA
Connections	10 10 1
connectable conductor cross-section solid	
minimum	0.75 mm ²
maximum	35 mm ²
connectable conductor cross-section stranded	33 111111
minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section finely stranded with core end processing	33 11111
minimum	0.75 mm ²
• maximum	25 mm ²
AWG number as coded connectable conductor cross section	23 111111
minimum	18
• maximum	4
	4
tightening torque [lbf-in] with screw-type terminals • minimum	22 lbf·in
	31 lbf·in
maximum tight aping targue with agree type targeted.	31 101:111
tightening torque with screw-type terminals	2.5 N·m
• minimum	3.5 N·m
maximum position of power supply cord	AC as required, observe DC polarity
Mechanical Design	AC as required, observe DC polarity
height	90 mm
width	36 mm
depth	76 mm
installation depth	70 mm
number of modular width units	2
fastening method	Quick assembly system
mounting position	any
net weight	339 g
Environmental conditions	333 9
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
standard	IEC / EN 60898-2, 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, 00m/3 at 20 to 100112
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	
General Floudot Approval	

Confirmation







Miscellaneous



General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Miscellaneous



other		Railway		Dangerous Good	Environment
Confirmation	<u>Miscellaneous</u>	Confirmation	Vibration and Shock	Transport Information	Environmental Con-

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=5SY5250-6

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY5250-6

Tittps://support.industry.sicriteris.com/cs/ww/cr//ps/00/10200/0

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

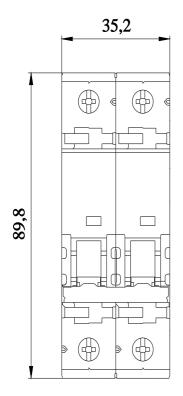
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5250-6

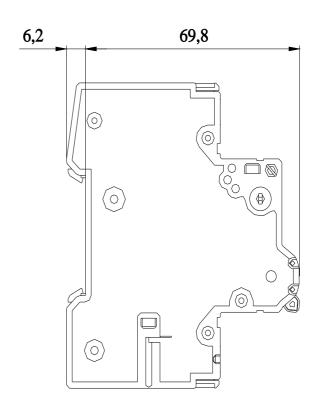
CAx-Online-Generator

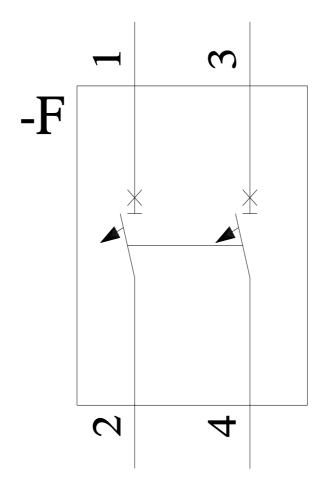
http://www.siemens.com/cax

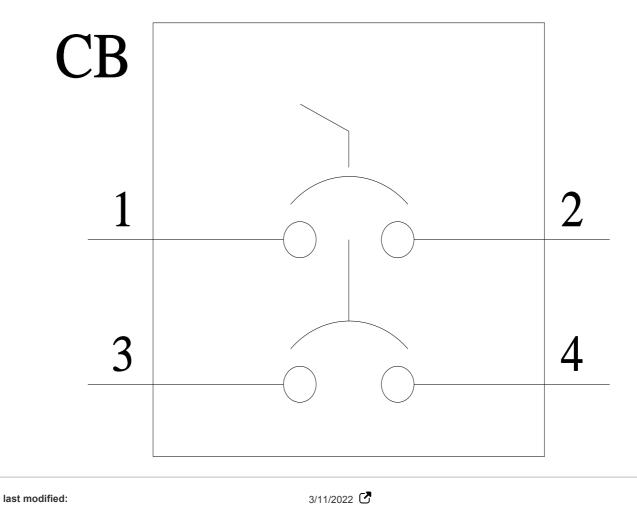
Tender specifications

http://www.siemens.com/specifications









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