## **SIEMENS**

Data sheet 5SY5213-7



Circuit breaker Universal current 440 V DC 400 V AC 10kA, 2-pole, C, 13A

Model					
product brand name	SENTRON				
product designation	Miniature circuit breaker				
General technical data					
number of poles	2				
design of pole	2P				
tripping characteristic class	C				
mechanical service life (operating cycles) typical	10 000				
overvoltage category	III				
degree of pollution	3				
Voltage					
type of voltage of the operating voltage	AC/DC				
insulation voltage (Ui)					
<ul> <li>at DC rated value</li> </ul>	250 V				
<ul> <li>with single-phase operation at AC rated value</li> </ul>	440 V				
with multi-phase operation at AC rated value	440 V				
operational current					
<ul> <li>at 40 °C rated value</li> </ul>	12.38 A				
<ul> <li>at 50 °C rated value</li> </ul>	11.73 A				
● at 55 °C rated value	11.38 A				
<ul> <li>at 60 °C rated value</li> </ul>	11.02 A				
at AC rated value	13 A				
Supply voltage					
supply voltage					
• at AC	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				
Breaking Capacity					
switching capacity current					
<ul> <li>at DC according to IEC 60947-2 rated value</li> </ul>	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	1.4 W				
suitability for operation	Infrastructure / Industry / Mobility				
Product details	Product details				

and doct to store to the same	
product feature touch protection	Yes
product component	Voc
combined terminal top	Yes
<ul> <li>combined terminal bottom</li> </ul>	Yes
neutral conductor switching	No
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
Short circuit	
short-circuit current breaking capacity (Icn)	
<ul> <li>at DC according to EN 60898-2</li> </ul>	10 kA
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm²
• maximum	35 mm²
connectable conductor cross-section stranded	
• minimum	0.75 mm²
maximum	35 mm²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm <sup>2</sup>
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	AC as required, observe DC polarity
Mechanical Design	
height	90 mm
width	36 mm
depth	76 mm
installation depth	70 mm
number of modular width units	2
fastening method	DIN rail
mounting position	any
net weight	
	329 q
Environmental conditions	329 g
standard	IEC / EN 60898-2, UL1077
standard vibration resistance according to IEC 60068-2-6	
standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation	IEC / EN 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum	IEC / EN 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum	IEC / EN 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz
standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during storage	IEC / EN 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz -40 °C 70 °C
standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum	IEC / EN 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz -40 °C 70 °C
vibration resistance according to IEC 60068-2-6  ambient temperature during operation  • minimum  • maximum  ambient temperature during storage  • minimum  • maximum	IEC / EN 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz  -40 °C 70 °C  -40 °C 75 °C
standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum number of test cycles for environmental testing according to IEC 60068-2-30	IEC / EN 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz  -40 °C 70 °C  -40 °C
standard vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum number of test cycles for environmental testing according	IEC / EN 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz  -40 °C 70 °C  -40 °C 75 °C













General Product Approval		Test Certificates Marine / Shipping		other	
EAC	Miscellaneous	Special Test Certificate ate	Lloyd's Register urs	Confirmation	Miscellaneous
Railway		Dangerous goods	Environment		
Special Test Certificate	Confirmation	Transport Information	FPD	FPD	Environmental Confirmations

## Further information

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=5SY5213-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY5213-7

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

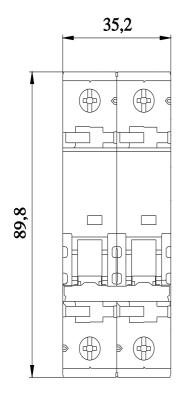
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SY5213-7

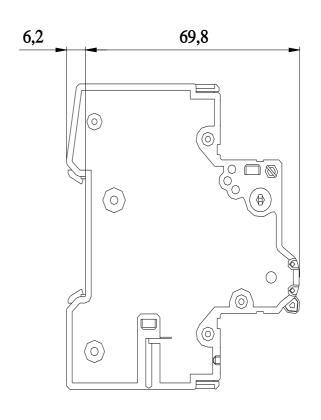
CAx-Online-Generator

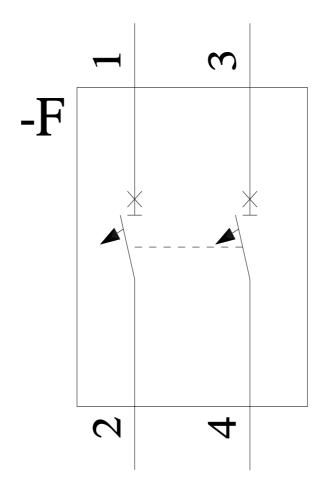
http://www.siemens.com/cax

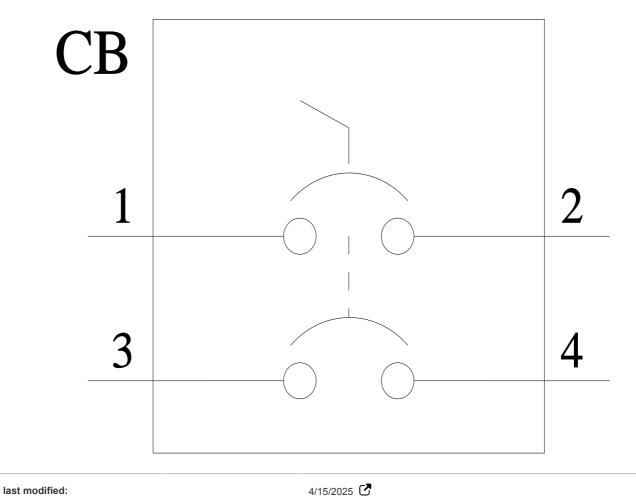
Tender specifications

http://www.siemens.com/specifications









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