## SIEMENS

## Data sheet

## 5SY5102-7



Circuit breaker Universal current 220 V DC 230/400 V AC 10kA, 1-pole, C, 2A

Model			
product brand name	SENTRON		
product designation	Miniature circuit breaker		
General technical data			
number of poles	1		
number of poles / note	1P		
tripping characteristic class	С		
mechanical service life (switching cycles) / typical	10 000		
overvoltage category	III		
degree of pollution	3		
Voltage			
insulation voltage			
<ul> <li>at DC / rated value</li> </ul>	250 V		
<ul> <li>with single-phase operation / at AC / rated value</li> </ul>	440 V		
<ul> <li>with multi-phase operation / at AC / rated value</li> </ul>	440 V		
supply voltage / with single-phase operation / at AC / rated value	230 V		
Supply voltage			
type of voltage	AC/DC		
operational current / at AC / rated value	2 A		
supply voltage			
<ul> <li>at AC / rated value</li> </ul>	400 V		
<ul> <li>at DC / rated value</li> </ul>	220 V		
operating voltage / at DC / rated value / maximum	250 V		
supply voltage frequency / rated value	50/60 Hz		
Protection class			
protection class IP	IP20, with connected conductors		
Switching capacity			
switching capacity current			
<ul> <li>at DC / acc. to IEC 60947-2 / rated value</li> </ul>	15 kA		
<ul> <li>acc. to EN 60898 / rated value</li> </ul>	10 kA		
energy limitation class	3		
Dissipation			
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.2 W		
suitability for operation	universal current		
Product details			



product function / neutral conductor switching	No
product function / neutral conductor switching	No Ves
product feature / touch protection	Yes
product component	Yes
combined terminal top	
combined terminal bottom	Yes
product feature	Vee
<ul> <li>properties for main switches in accordance with EN 60204-1</li> </ul>	Yes
halogen-free	Yes
• sealable	Yes
silicon-free	Yes
product extension / installable / supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (Icn)	
• at DC / acc. to EN 60898-2	10 kA
Connections	
connectable conductor cross-section / solid	0.75 2
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm²
connectable conductor cross-section / stranded	0.75 mm²
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm²
connectable conductor cross-section / finely stranded / with core end processing	
minimum	0.75 mm²
• maximum	25 mm <sup>2</sup>
AWG number / as coded connectable conductor cross	23 1111
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	
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	Quick assembly system
mounting position	any
net weight	 173 g
Environmental conditions	110 g
	may 0.5% to $55%$ may $55%$ to $70%$ may $25%$ to $75%$
influence of the surrounding temperature vibration resistance / acc. to IEC 60068-2-6	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
ambient temperature / during operation	40 °C
• minimum	-40 °C
maximum	70 °C
ambient temperature / during storage	10.10
• minimum	-40 °C
• maximum	75 °C
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
Certificates	
reference code	

acc. to DIN EN 6     acc. to IEC 8134     General Product Ap	46-2	F			Declaration of Conformity
CCC	<b>SAN</b> UR	VDE	<u>Miscellaneous</u>	EHC	CE EG-Konf.
Test Certificates			Railway		
<u>Miscellaneous</u>	Special Test Certificate	<u>Special Test</u> <u>Certificate</u>	Vibration and Shock	<u>Confirmation</u>	

Further information

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=5SY5102-7

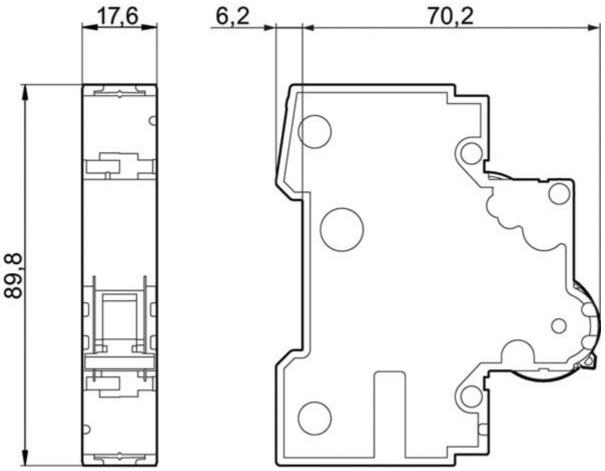
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY5102-7

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SY5102-7

**Tender specifications** 

http://www.siemens.com/specifications



C