SIEMENS

Data sheet

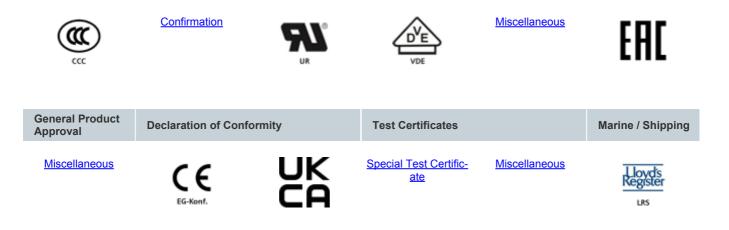
5SY5110-6



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

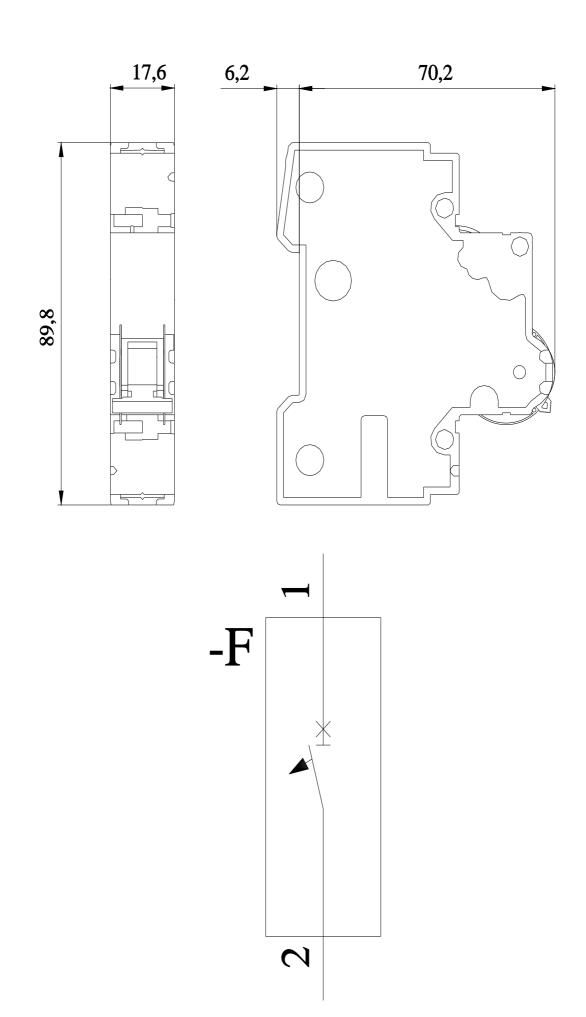
Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	В
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC/DC
insulation voltage (Ui)	
 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 with single-phase operation at AC rated value	230 V
Supply voltage	
supply voltage	
 at AC rated value 	400 V
 at DC rated value 	220 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	250 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	1.3 W
Current	
operational current	
 at 35 °C rated value 	10 A
 at 40 °C rated value 	9.39 A
• at 45 °C rated value	9.07 A
 at 50 °C rated value 	8.74 A

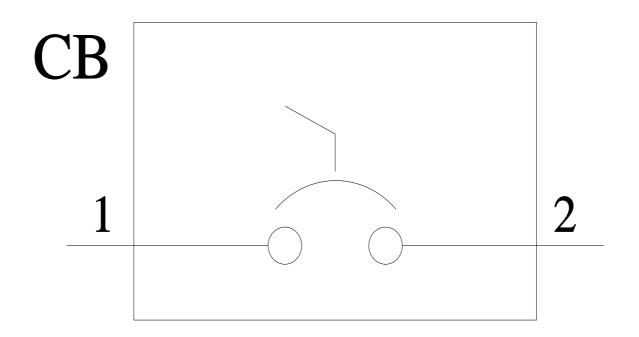
	0.4.4			
• at 55 °C rated value	8.4 A			
at 60 °C rated value	8.04 A 10 A			
 at AC rated value suitability for operation 	universal current			
Product details				
product component				
combined terminal top	Yes			
combined terminal top	Yes			
 neutral conductor switching 	No			
product feature				
 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			
Short circuit				
short-circuit current breaking capacity (Icn)				
at DC according to EN 60898-2	10 kA			
Connections				
connectable conductor cross-section solid				
• minimum	0.75 mm ²			
maximum	35 mm ²			
connectable conductor cross-section stranded	0.75 mm ²			
• minimum	0.75 mm ²			
maximum	35 mm ²			
connectable conductor cross-section finely stranded with core end processing • minimum	0.75 mm²			
• maximum	25 mm ²			
AWG number as coded connectable conductor cross	25 11111			
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	18 mm			
depth	76 mm			
installation depth	70 mm			
number of modular width units	1 Oviek eesembly evetere			
fastening method	Quick assembly system			
mounting position net weight	any			
Environmental conditions	170 g			
	$max_{0}05\%$ to 55% max_ 55% to 70% max_ 25% to 75%			
influence of the surrounding temperature standard	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-2, UL1077			
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz			
ambient temperature during operation				
• 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				



other		Railway		Dangerous Good
<u>Miscellaneous</u>	Environmental Con- firmations	Vibration and Shock	Confirmation	<u>Transport Informa-</u> <u>tion</u>

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=5SY5110-6	
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/5SY5110-6	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5110-6	
CAx-Online-Generator http://www.siemens.com/cax	
Tender specifications http://www.siemens.com/specifications	





C