SIEMENS

Data sheet

5SY4113-6



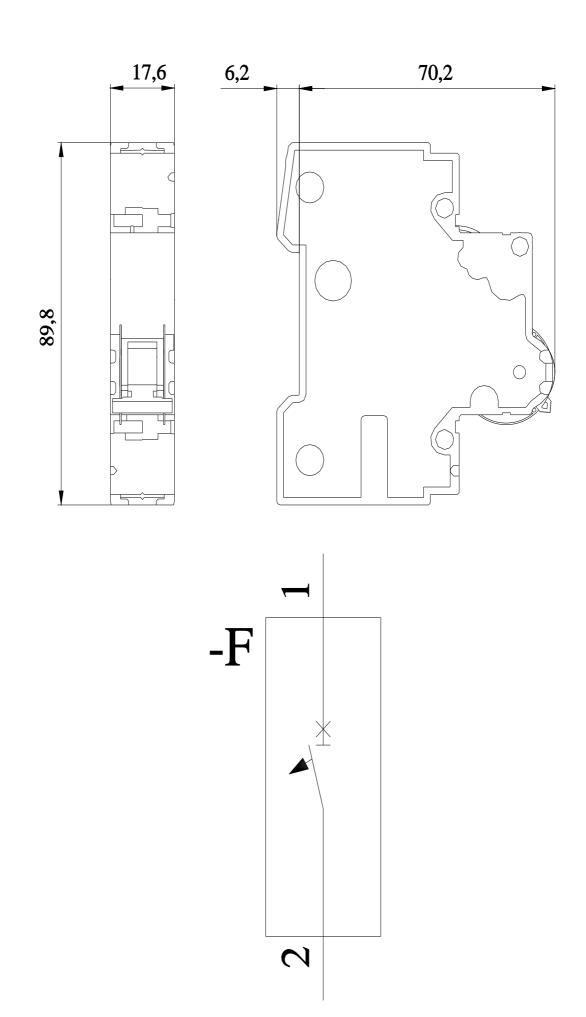
Miniature circuit breaker 230/400 V 10kA, 1-pole, B, 13 A, D=70 mm

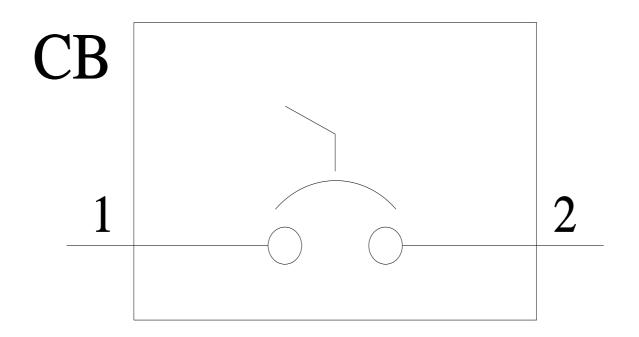
Model				
product brand name	SENTRON			
product designation	Miniature circuit breaker			
General technical data				
number of poles	1			
design of pole	1P			
tripping characteristic class	В			
mechanical service life (switching cycles) typical	10 000			
overvoltage category	III			
degree of pollution	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			
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 EN 60898 rated value 	10 kA			
 according to IEC 60947-2 rated value 	20 kA			
energy limitation class	3			
Dissipation				
power loss [W] for rated value of the current at AC in hot operating state per pole	1.7 W			
Current				
operational current				
• at 35 °C rated value	13 A			
• at 40 °C rated value	12.38 A			
• at 45 °C rated value	12.05 A			
• at 50 °C rated value	11.73 A			
● at 55 °C rated value	11.38 A			

	44.00 A		
at 60 °C rated value	11.02 A		
at AC rated value	13 A		
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 	Vec		
60204-1	Yes		
 halogen-free 	Yes		
• sealable	Yes		
silicon-free	Yes		
product extension installable supplementary devices	Yes		
Short circuit			
breaking capacity short-circuit current (lcn)			
• at AC according to UL 1077 and CSA C22.2 No.235	5 kA		
Connections			
connectable conductor cross-section solid			
minimum	0.75 mm²		
• maximum	35 mm ²		
connectable conductor cross-section stranded			
minimum	0.75 mm²		
• maximum	35 mm ²		
connectable conductor cross-section finely stranded with			
core end processing			
• minimum	0.75 mm ²		
• maximum	25 mm ²		
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	Any		
Mechanical Design			
height	90 mm		
width	18 mm		
depth	76 mm		
installation depth	70 mm		
number of modular width units			
fastening method	Quick assembly system		
mounting position	any		
net weight	161 g		
Environmental conditions			
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C		
standard	IEC / EN 60898-1, IEC / EN 60947-2 / 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		
Certificates			
reference code			

according to EN according to IE General Product Ap	C 81346-2	F			
	<u>Confirmation</u>	E	SN UR	UDE VDE	<u>Miscellaneous</u>
General Product Ap	oproval	EMC	Declaration of Cont	formity	Test Certificates
EHC	<u>Miscellaneous</u>	RCM	CE EG-Konf.	UK CA	Special Test Certific- ate
Test Certificates	Marine / Shipping				
<u>Miscellaneous</u>	ABS	BUREAU VERITAS	Llovd's Register us	RINA	DNV-GL
other		Railway			
Environmental Con- firmations	<u>Miscellaneous</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=5SY4113-6
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/5SY4113-6
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4113-6
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications





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