SIEMENS

Data sheet

5SY5110-7



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

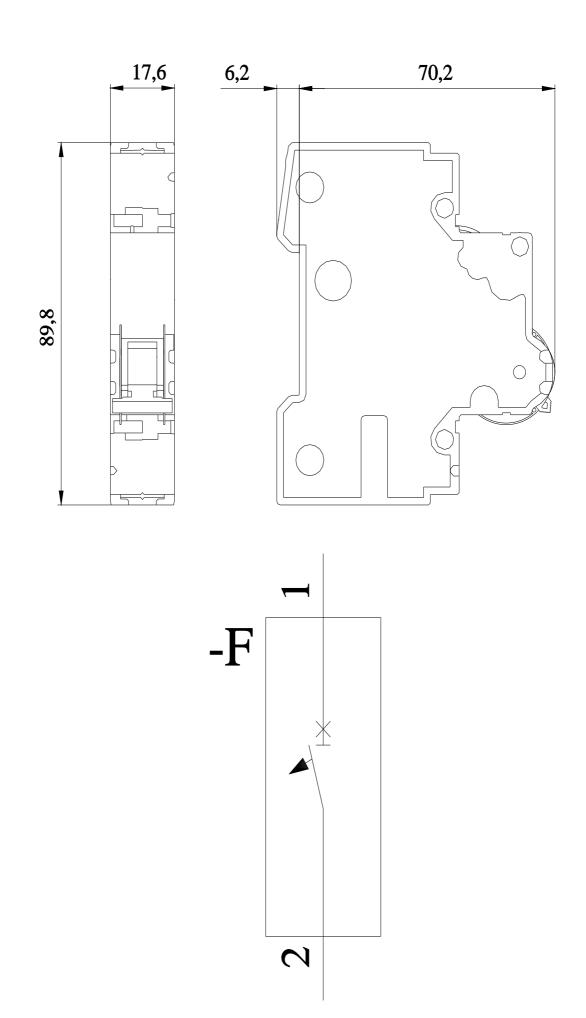
Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	С
mechanical service life (switching cycles) typical	10 000
overvoltage category	
degree of pollution	3
Voltage	
type of voltage of 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	1.1 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

a at EE °C rotad value	8.4 A
 at 55 °C rated value at 60 °C rated value 	8.4 A 8.04 A
at AC rated value	10 A
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	Yes
 halogen-free sealable 	Yes
silicon-free	Yes
product extension installable supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (lcn)	
at DC according to EN 60898-2	10 kA
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm ²
• maximum	35 mm²
connectable conductor cross-section stranded	
• minimum	0.75 mm ²
• maximum	35 mm²
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	0.5.11
• minimum	2.5 N·m
 maximum position of power supply cord 	3.5 N·m
Mechanical Design	AC as required, observe DC polarity
	00
height	90 mm 18 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	171 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 60898-2, 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	40.00
• minimum	-40 °C 75 °C
 maximum number of test cycles for environmental testing according 	75 °C 6
to IEC 60068-2-30	0
Certificates	

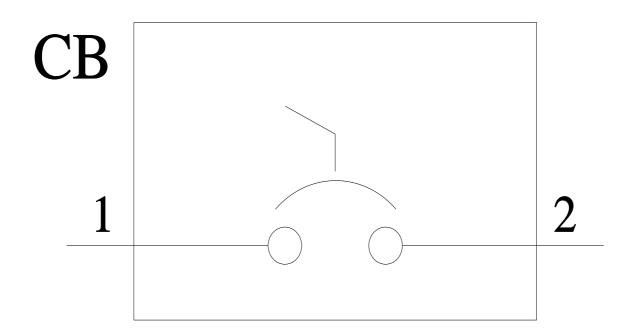
reference code according to EN according to IE General Product Ap	C 81346-2	F			
<u>Confirmation</u>		SN UR	UDE VDE	<u>Miscellaneous</u>	EAC
General Product Approval	Declaration of Con	formity	Test Certificates		Marine / Shipping
<u>Miscellaneous</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>	Lloyd's Register Lits
other		Railway		Dangerous Good	
Environmental Con- firmations	Miscellaneous	<u>Confirmation</u>	Vibration and Shock	<u>Transport Informa-</u> <u>tion</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=5SY5110-7 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY5110-7 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5110-7 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications



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