SIEMENS

Data sheet

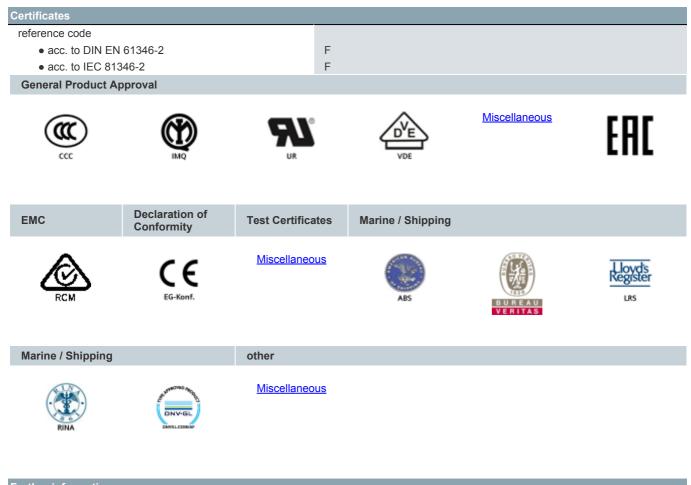
5SY6301-7



Miniature circuit breaker 400 V 6kA, 3-pole, C, 1A, D=70 mm

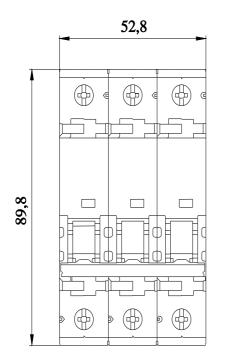
Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
design of pole	3P
tripping characteristic class	С
mechanical service life (switching cycles) / typical	10 000
overvoltage category	
degree of pollution	3
Voltage	
type of voltage / of the operating voltage	AC
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
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 / acc. to IEC 60947-2 / rated value 	15 kA
 acc. to EN 60898 / rated value 	6 kA
 acc. to IEC 60947-2 / rated value 	30 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
Current	
operational current	
• at 35 °C / rated value	1 A
• at 40 °C / rated value	0.95 A
 at 45 °C / rated value 	0.93 A
• at 50 °C / rated value	0.9 A
• at 55 °C / rated value	0.88 A

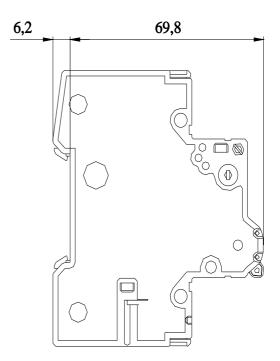
• at AC / rated value	1A
suitability for operation	Mechanical engineering / industry
Product details	
product component / neutral conductor switching	No
product feature / touch protection	Yes
product component	
combined terminal top	Yes
combined terminal bottom	Yes
product feature	
 properties for main switches in accordance with EN 60204-1 	Yes
 halogen-free 	Yes
• sealable	Yes
silicon-free	Yes
product extension / installable / supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (Icn)	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 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 mm ²
• 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	Any
Mechanical Design	
height	90 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3 Quick assembly system
fastening method	Quick assembly system
net weight	any 448 g
	א אדד ש
Environmental conditions	m_{2} (150% 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 minimum 	-25 °C
• minimum • maximum	-25 °C
maximum ambient temperature / during storage	
minimum	-40 °C
• maximum	-40 C 75 °C
number of test cycles / for environmental testing / acc. to	6
IEC 60068-2-30	

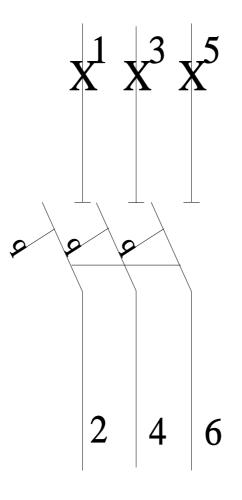


Further information

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=5SY6301-7 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY6301-7 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6301-7 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications







C