SIEMENS

Data sheet 5SY4350-7



Miniature circuit breaker 400 V 10kA, 3-pole, C, 50 A, 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	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			
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	10 kA			
• acc. to IEC 60947-2 / rated value	15 kA			
energy limitation class	3			
Dissipation				
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.8 W			
Current				
operational current				
at 35 °C / rated value	50 A			
• at 45 °C / rated value	47 A			
 at 50 °C / rated value 	45.95 A			
• at 55 °C / rated value	44.9 A			
 at 60 °C / rated value 	43.8 A			

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at AC / rated value	50 A
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 mm²
• maximum	35 mm ²
connectable conductor cross-section / stranded	
• minimum	0.75 mm²
• maximum	35 mm²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm²
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
fastening method	Quick assembly system
mounting position	any
net weight	488 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
vibration resistance / acc. to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² 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 / acc. to	6
IEC 60068-2-30	

Certificates reference code ● acc. to DIN EN 61346-2 F ● acc. to IEC 81346-2 F

General Product Approval









	General Product Approval	EMC	Declaration of Conformity	Test Certificates
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Marine / Shipping

Marine / Shipping other Railway









Railway

Further information





