SIEMENS

Data sheet 5SY4320-5



Miniature circuit breaker 400 V 10kA, 3-pole, A, 20A, 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	A	
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	
Dissipation		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.5 W	
Current		
operational current		
 at 35 °C / rated value 	20 A	
 at 40 °C / rated value 	19.04 A	
 at 45 °C / rated value 	18.54 A	
 at 50 °C / rated value 	18.04 A	
• at 55 °C / rated value	17.5 A	

• at 60 °C / rated value	16.96 A
at AC / rated value	20 A
suitability for operation	Mechanical engineering / industry
Product details	Wechanical engineering / industry
product component	Voc
 combined terminal top combined terminal bottom 	Yes
	Yes
neutral conductor switching	No
product feature • properties for main switches in accordance with EN	Yes
60204-1	
halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension / installable / supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (Icn) • 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	33 111111
minimum	0.75 mm²
maximum	35 mm ²
connectable conductor cross-section / finely stranded /	33 111111
with core end processing	0.75
• 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	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	482 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/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 / according to IEC 60068-2-30

Certificates

reference code

• according to EN 61346-2

• according to IEC 81346-2

F

General Product Approval

Confirmation





Miscellaneous



Miscellaneous

Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Miscellaneous





other

Railway

Miscellaneous

Environmental Confirmations Vibration and Shock

Confirmation

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=5SY4320-5

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/5SY4320-5

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4320-5

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







