SIEMENS

Data sheet 5SY4432-5



Miniature circuit breaker 400 V 10kA, 4-pole, A, 32 A, D=70 mm

Model		
product brand name	SENTRON	
product designation	Miniature circuit breaker	
General technical data		
number of poles	4	
design of pole	4P	
tripping characteristic class	A	
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	
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	3.4 W	
Current		
operational current		
• at 35 °C rated value	32 A	
 at 40 °C rated value 	30.72 A	
at 45 °C rated value	30.08 A	
• at 50 °C rated value	29.41 A	
 at 55 °C rated value at 60 °C rated value 	28.74 A 28.03 A	

at AC rated value	32 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 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 according to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
connectable conductor cross-section solid	0.75?
• minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section stranded	0.75
• 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 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	72 mm
depth	76 mm
installation depth	70 mm
number of modular width units	4
fastening method	Quick assembly system
mounting position	any
net weight	635 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	6
to IEC 60068-2-30	
Certificates	
reference code	
according to EN 61346-2	F

General Product Approval

Confirmation





Miscellaneous



Miscellaneous

Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Miscellaneous





other

Railway

Environmental Confirmations

Miscellaneous

Confirmation

Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4432-5}$

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4432-5

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4432-5

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







