SIEMENS

Data sheet

5SY6304-7



Miniature circuit breaker 400 V 6kA, 3-pole, C, 4A, D=70 mm

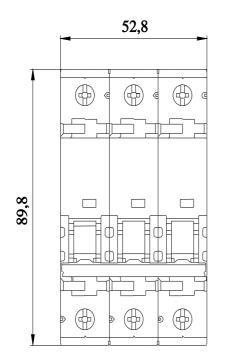
Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
design of pole	3P
tripping characteristic class	С
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage / 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
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 	6 kA
 according 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	1.3 W
Current	
operational current	
• at 35 °C / rated value	4 A
 at 40 °C / rated value 	3.81 A
• at 45 °C / rated value	3.71 A
• at 50 °C / rated value	3.61 A

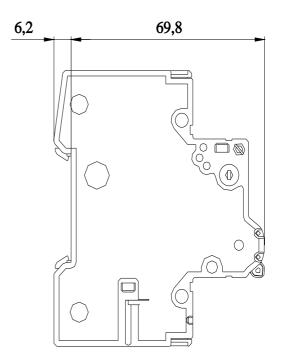
• at 55 °C / rated value	3.5 A
at AC / rated value	4 A Mechanical engineering / industry
suitability for operation	Mechanical engineering / industry
Product details	
product component	N .
combined terminal top	Yes
combined terminal bottom	Yes
neutral conductor switching	No
product feature	Yes
 properties for main switches in accordance with EN 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 	5 kA
No.235	
Connections	
connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	35 mm ²
connectable conductor cross-section / stranded	0.75
• minimum	0.75 mm ²
• maximum	35 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
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	444 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	-25 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C

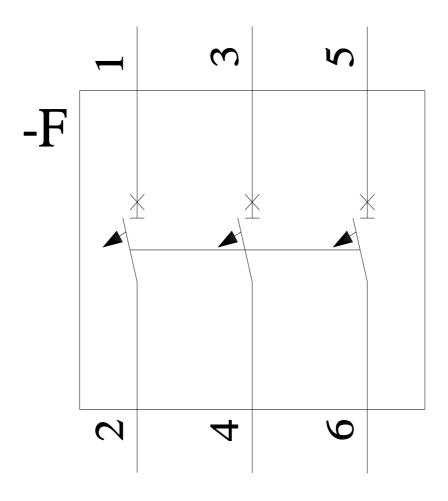
number of test cycles according to IEC 600	s / for environmental testi 068-2-30	ng / 6			
Certificates					
reference code according to El according to IE 		F			
General Product A	pproval				
<u>Confirmation</u>	CCC	W	R UR	VDE	<u>Miscellaneous</u>
General Product A	pproval		EMC	Declaration of Con	formity
<u>KC</u>	EHC	<u>Miscellaneous</u>	RCM	UK CA	CE EG-Konf.
Test Certificates	Marine / Shipping				
<u>Miscellaneous</u>	ABS	B U REAU VERITAS	Llovd's Register urs	RINA	DNV-GL EMPSLCORM
other					
<u>Miscellaneous</u>	Environmental Con- firmations				

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=5SY6304-7	
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/5SY6304-7	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)	
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6304-7	
CAx-Online-Generator	
http://www.siemens.com/cax	
Tender specifications	
http://www.siemens.com/specifications	

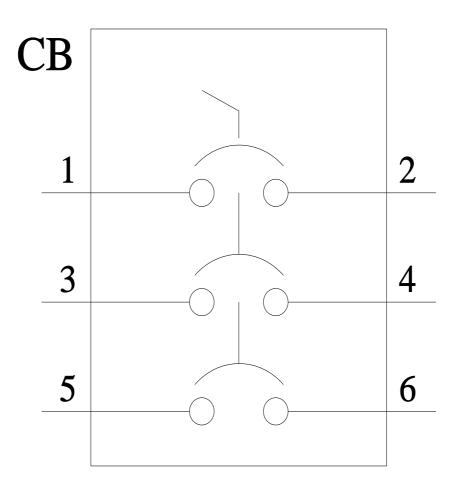
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