## SIEMENS

## Data sheet

## 5SY4320-7-Z W09



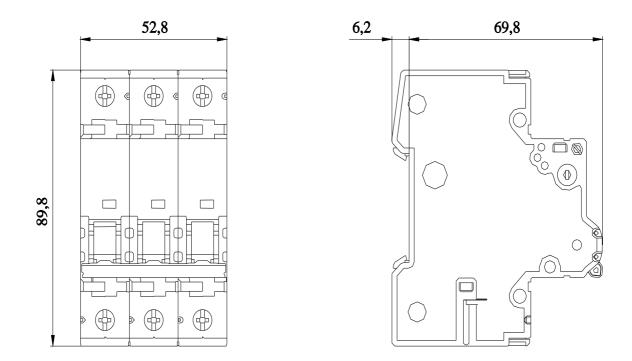
Miniature circuit breaker 400 V 10kA, 3-pole, C, 20 A, D=70 mm Multi-Unit Packaging (36 Stück)

Model					
product brand name	SENTRON				
product designation	Miniature circuit breaker				
General technical data					
number of poles	3				
design of pole	3P				
tripping characteristic class	C				
mechanical service life (operating cycles) typical	10 000				
overvoltage category	III				
degree of pollution	3				
Voltage					
type of voltage of the operating voltage	AC				
insulation voltage (Ui)					
<ul> <li>with single-phase operation at AC rated value</li> </ul>	440 V				
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	440 V				
supply voltage with single-phase operation at AC rated value	230 V				
operational current					
<ul> <li>at 40 °C rated value</li> </ul>	19.04 A				
<ul> <li>at 50 °C rated value</li> </ul>	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				
Supply voltage					
supply voltage					
• at AC	400 V				
<ul> <li>at DC rated value</li> </ul>	60 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				
Breaking Capacity					
switching capacity current					
<ul> <li>at DC according to IEC 60947-2 rated value</li> </ul>	15 kA				
<ul> <li>according to EN 60898 rated value</li> </ul>	10 kA				
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	20 kA				
energy limitation class	3				
Dissipation					
power loss [W] for rated value of the current at AC in hot operating state per pole	1.7 W				

suitability for operation	Infrastructure / Industry		
Product details			
product feature touch protection	Yes		
product component			
combined terminal top	Yes		
combined terminal bottom	Yes		
neutral conductor switching	No		
product feature			
<ul> <li>properties for main switches in accordance with EN 60204-1</li> </ul>	Yes		
halogen-free	Yes		
• sealable	Yes		
silicon-free	Yes		
product extension installable supplementary devices	Yes		
Product function			
set values setting current (li) for I-tripping	7,5		
reference value setting current (li) for l-tripping	x In		
Short circuit			
short-circuit current breaking capacity (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 mm²		
connectable conductor cross-section stranded			
• minimum	0.75 mm <sup>2</sup>		
• maximum	35 mm²		
connectable conductor cross-section finely stranded with core end processing			
• minimum	0.75 mm <sup>2</sup>		
• maximum	25 mm <sup>2</sup>		
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	468 g		
Environmental conditions			
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			

Environmental footprint							
Environmental Product Declaration(EPD)		Yes					
global warming potential [CO2 eq] total		25 kg					
global warming potential [CO2 eq] during manufacturing		1.53 kg					
global warming potential [CO2 eq] during operation		23.5 kg					
global warming potential [CO2 eq] after end of life		0.026 kg					
Approvals Certificates							
General Product Appr	oval		other		Railway		
<u>Confirmation</u>	Miscellaneous	EHC	<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Confirmation</u>		
Environment							
Environmental Con- firmations	EPD	Environmental C firmations	on-				
Further information							

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=5SY4320-7-Z W09 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY4320-7-Z W09 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SY4320-7-Z W09 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications



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