## SIEMENS

## Data sheet

## 5SY4320-6



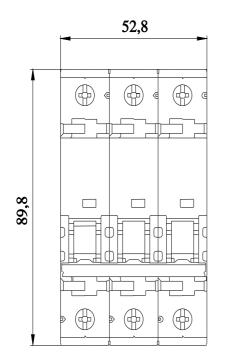
Miniature circuit breaker 400 V 10kA, 3-pole, B, 20 A, D=70 mm

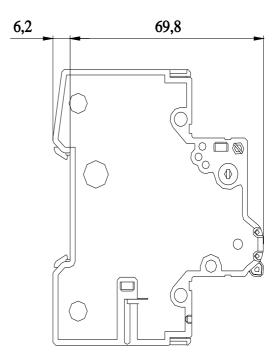
Model			
product brand name	SENTRON		
product designation	Miniature circuit breaker		
General technical data			
number of poles	3		
design of pole	3P		
tripping characteristic class	В		
mechanical service life (operating cycles) typical	10 000		
overvoltage category	III		
degree of pollution	3		
Voltage			
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		
Supply voltage			
supply voltage			
<ul> <li>at AC rated value</li> </ul>	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			
<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	2.2 W		
Current			
operational current			
<ul> <li>at 35 °C rated value</li> </ul>	20 A		
<ul> <li>at 40 °C rated value</li> </ul>	19.04 A		
<ul> <li>at 45 °C rated value</li> </ul>	18.54 A		
<ul> <li>at 50 °C rated value</li> </ul>	18.04 A		
• at 55 °C rated value	17.5 A		

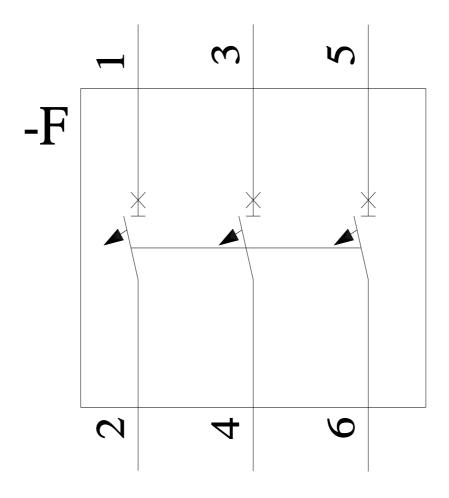
a at CO °C rated within				
• at 60 °C rated value	16.96 A			
<ul> <li>at AC rated value suitability for operation</li> </ul>	20 A Mechanical engineering / industry			
Product details				
product component	Voc			
<ul> <li>combined terminal top</li> <li>combined terminal bottom</li> </ul>	Yes			
endurated terminal bottom     endurated terminal bottom	Yes No			
product feature				
<ul> <li>properties for main switches in accordance with EN 60204-1</li> </ul>	Yes			
<ul> <li>halogen-free</li> </ul>	Yes			
• sealable	Yes			
silicon-free	Yes			
product extension installable supplementary devices	Yes			
Short circuit				
breaking capacity short-circuit current (Icn)				
<ul> <li>at AC according to UL 1077 and CSA C22.2 No.235</li> </ul>	5 kA			
Connections				
connectable conductor cross-section solid				
• minimum	0.75 mm <sup>2</sup>			
• maximum	35 mm <sup>2</sup>			
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 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	2.5 N·m			
● minimum ● maximum	3.5 N·m			
position of power supply cord				
	Any			
Mechanical Design				
height	90 mm			
width	54 mm			
depth	76 mm			
installation depth number of modular width units	70 mm 3			
fastening method				
mounting position	Quick assembly system			
net weight	any 461 g			
Environmental conditions				
	$max 0.50/ to 55^{\circ}C$ max 550/ to 70^{\circ}C max 250/ to 75^{\circ}C			
influence of the surrounding temperature standard	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-1, IEC / EN 60947-2 / UL1077			
vibration resistance according to IEC 60068-2-6	$\pm 1$ mm at 5 to 25Hz; 50m/s <sup>2</sup> 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	6			
Certificates				
reference code				

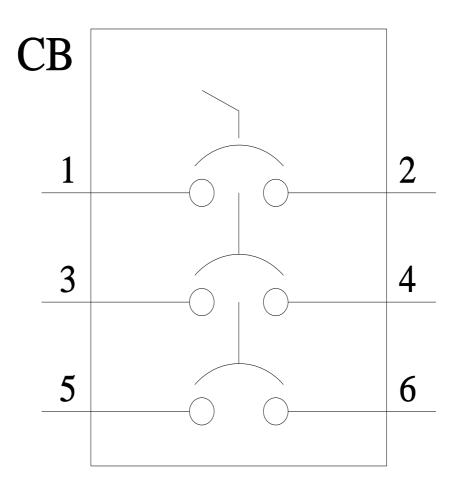
<ul> <li>according to EN</li> <li>according to IE</li> <li>General Product Ap</li> </ul>	C 81346-2	F			
<u>Confirmation</u>			<b>GNS</b> UR	VDE	<u>Miscellaneous</u>
General Product Ap	proval	EMC	Declaration of Confo	rmity	Test Certificates
EHC	<u>Miscellaneous</u>	RCM	UK CA	CE EG-Konf.	<u>Miscellaneous</u>
Test Certificates	Marine / Shipping				
<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS	Lloyd's Register uis	RINA	DNV-GL
other		Railway			
Environmental Con- firmations	<u>Miscellaneous</u>	<u>Confirmation</u>	Vibration and Shock		

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=5SY4320-6
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/5SY4320-6
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4320-6
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications









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