SIEMENS

Data sheet

5SY6410-6

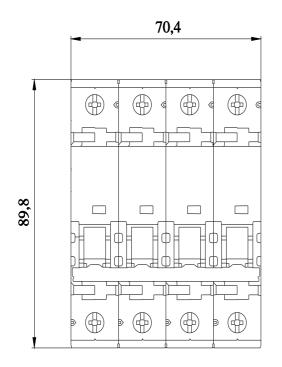


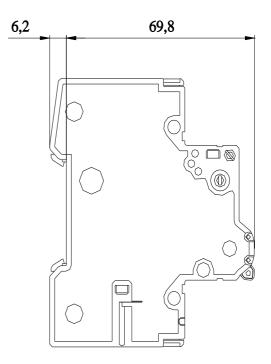
Miniature circuit breaker 400 V 6kA, 4-pole, B, 10A, D=70 mm

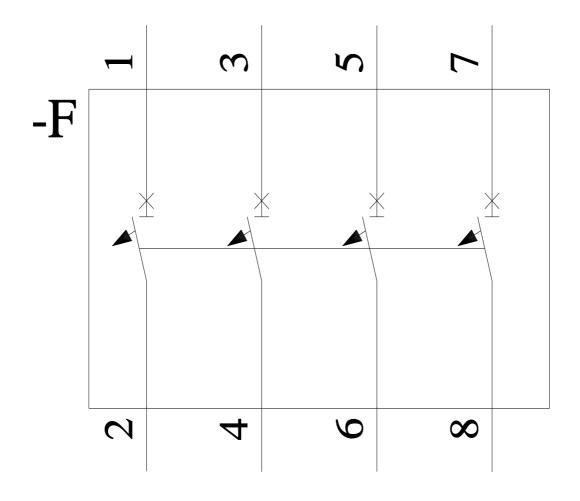
Model						
product brand name	SENTRON					
product designation	Miniature circuit breaker					
General technical data						
number of poles	4					
design of pole	4P					
tripping characteristic class	В					
mechanical service life (operating cycles) typical	10 000					
overvoltage category	III					
degree of pollution	3					
Voltage						
type of voltage of the operating voltage	AC					
insulation voltage (Ui)						
 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					
at DC rated value	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					
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 	15 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					
suitability for operation	Mechanical engineering / industry					
Product details						
product component						
 combined terminal top 	Yes					
 combined terminal bottom 	Yes					
 neutral conductor switching 	No					
product feature						

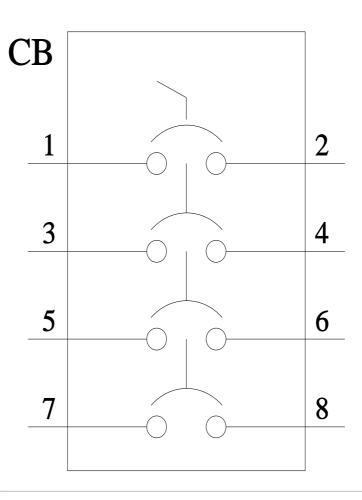
 properties for main switches in accordance with EN 60204-1 	Yes	
halogen-free	Yes	
• sealable	Yes	
silicon-free	Yes	
product extension installable supplementary devices	Yes	
Short circuit		
short-circuit current breaking capacity (Icn)		
at AC according to UL 1077 and CSA C22.2 No.235	5 kA	
Connections		
connectable conductor cross-section solid		
• minimum	0.75 mm²	
• maximum	35 mm ²	
connectable conductor cross-section stranded		
• minimum	0.75 mm²	
• maximum	35 mm ²	
connectable conductor cross-section finely stranded with core		
end processing		
• minimum	0.75 mm²	
• 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	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	621 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/s ² 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 for environmental testing according to IEC 60068-2-30	6	
General Product Approval		
Confirmation		<u>Miscellaneous</u>
General Product Approval EMC	Declaration of Conformity	Test Certificates

EHC	<u>Miscellaneous</u>	RCM	UK CA	CE EG-Konf.	<u>Miscellaneous</u>		
Marine / Shipping					other		
ABS	BUREAU VERITAS	Llovds Register us	RINA	DNV-GL DNV-GL	Confirmation		
other	Environment						
Miscellaneous Further information	Environmental Con- firmations	of (see here)					
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875							
http://www.siemens.co Industry Mall (Online https://mall.industry.sie	emens.com/mall/en/en/Catal	og/product?mlfb=5SY64	<u>110-6</u>				
https://support.industr Image database (pro		<u>5SY6410-6</u> n drawings, 3D models		s,)			
Tender specification http://www.siemens.co							









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