SIEMENS

Data sheet

5SY8313-7



Miniature circuit breaker 400 V D=70 mm 25 kA according to EN 60947-2, 3P, C13

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 (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 IEC 60947-2 rated value 	30 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.4 W
Current	
operational current	
 at 45 °C rated value 	13 A
• at 50 °C rated value	12.68 A
• at 55 °C rated value	12.34 A
 at AC rated value 	13 A
suitability for operation	Mechanical engineering / industry
Product details	

product component	Vee	
 combined terminal top combined terminal bottom 	Yes	
	No	
 neutral conductor switching 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	
č		
Connections		
connectable conductor cross-section solid	0.752	
• minimum	0.75 mm ²	
maximum connectable conductor cross section stranded	35 mm ²	
connectable conductor cross-section stranded	0.75 mm²	
 minimum maximum 	0.75 mm² 35 mm²	
 maximum 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	54 mm	
depth	76 mm	
installation depth	70 mm	
number of modular width units	3	
fastening method	Quick assembly system	
mounting position	any 450 m	
net weight	453 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 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	-40 C 75 °C	
number of test cycles for environmental testing according	6	
to IEC 60068-2-30	Ŭ	
General Product Approval	Declaration of Conformity	
Confirmation Miscellaneo		
UR	EG-Konf.	

Subject to change without notice © Copyright Siemens

other

Environmental Confirmations

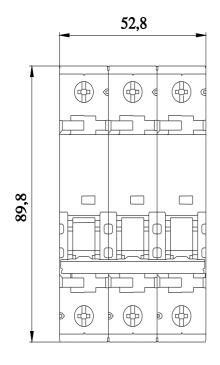
Miscellaneous

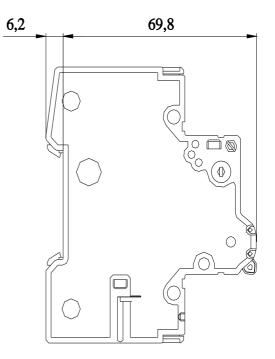
Further information

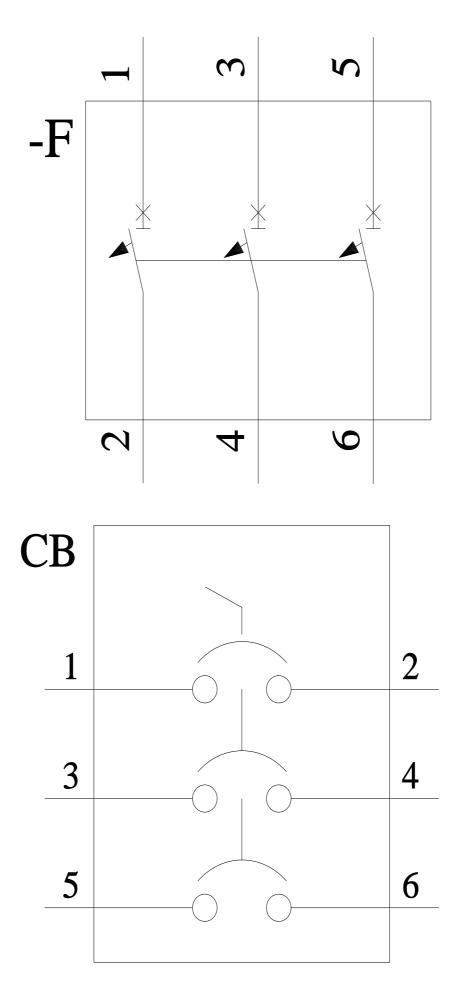
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY8313-7 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY8313-7 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8313-7 CAx-Online-Generator http://www.siemens.com/cax Tender specifications

Confirmation

http://www.siemens.com/specifications







C