SIEMENS

Data sheet 5SY8116-7



Circuit breaker 230/400 V D=70 mm 25 kA according to EN 60947-2, 1P, C16

Model		
product brand name	SENTRON	
product designation	Miniature circuit breaker	
General technical data		
number of poles	1	
design of pole	1P	
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	
operational current		
 at 50 °C rated value 	15.5 A	
• at 55 °C rated value	14.99 A	
 at AC rated value 	16 A	
Supply voltage		
supply voltage		
• at AC	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	
Breaking 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	1.6 W	
suitability for operation	Infrastructure / Industry	
Product details		
product component		
 combined terminal top 	Yes	

	N
neutral conductor switching	No
product feature	V
 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
Product function	165
	8
set values setting current (li) for I-tripping reference value setting current (li) for I-tripping	
Short circuit	x In
short-circuit current breaking capacity (lcn)	
at AC according to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm ²
• maximum	35 mm²
connectable conductor cross-section stranded	
• 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 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	
• minimum	2.5 N·m
maximum	3.5 N·m
position of power supply cord	Any
Mechanical Design	
height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	Quick assembly system
mounting position	any
net weight	156 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/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 for environmental testing according to IEC 60068-2-30	6
Approvals Certificates	
General Product Approval	









other **Environment**

Environmental Confirmations Environmental Con-firmations Confirmation **Miscellaneous**

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=5SY8116-7

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

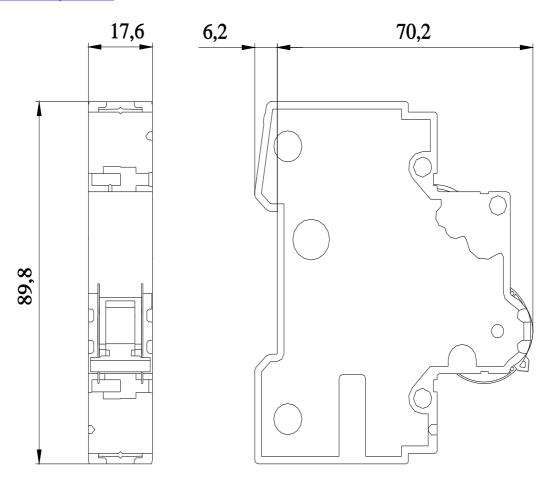
https://support.industry.siemens.com/cs/ww/en/ps/5SY8116-7

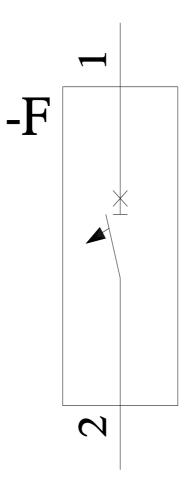
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8116-7

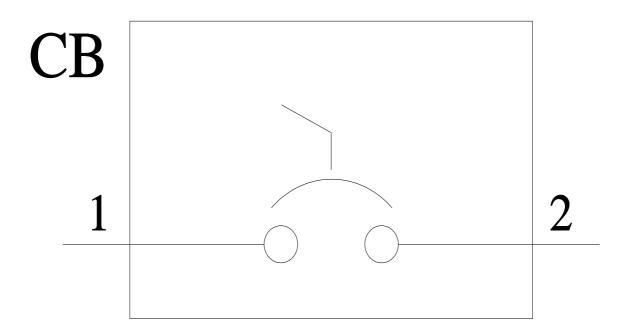
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications







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