## **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)	
<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
<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
Switching capacity	
switching capacity current	
<ul> <li>at DC according to IEC 60947-2 rated value</li> </ul>	15 kA
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	30 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.6 W
Current	
operational current	
<ul> <li>at 45 °C rated value</li> </ul>	16 A
<ul> <li>at 50 °C rated value</li> </ul>	15.5 A
<ul> <li>at 55 °C rated value</li> </ul>	14.99 A
<ul> <li>at AC rated value</li> </ul>	16 A
suitability for operation	Mechanical engineering / industry
Product details	

product component Yes · combined terminal top · combined terminal bottom Yes neutral conductor switching No product feature • properties for main switches in accordance with EN Yes 60204-1 • 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 connectable conductor cross-section solid • minimum 0.75 mm<sup>2</sup> 35 mm<sup>2</sup> • maximum connectable conductor cross-section stranded • minimum 0.75 mm<sup>2</sup> maximum 35 mm<sup>2</sup> connectable conductor cross-section finely stranded with core end processing • minimum 0.75 mm<sup>2</sup> 25 mm<sup>2</sup> • maximum AWG number as coded connectable conductor cross section • minimum 18 4 • maximum tightening torque [lbf·in] with screw-type terminals • minimum 22 lbf·in 31 lbf·in maximum 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 fastening method Quick assembly system mounting position any net weight 163 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<sup>2</sup> at 25 to 150Hz ambient temperature during operation • minimum -25 °C 55 °C • maximum ambient temperature during storage -40 °C • minimum 75 °C maximum number of test cycles for environmental testing according 6 to IEC 60068-2-30 **General Product Approval Declaration of Conformity** 

Confirmation



Miscellaneous







Confirmation

Miscellaneous

Environmental Confirmations

## 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=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** 

http://www.siemens.com/specifications





