SIEMENS

Data sheet 5SY8316-7



Miniature circuit breaker 400 V D=70 mm 25 kA according to EN 60947-2, 3P, C16 $\,$

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 (switching 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
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 / acc. to IEC 60947-2 / rated value	15 kA
acc. 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
Current	
operational current	
• at 45 °C / rated value	16 A
• at 50 °C / rated value	15.5 A
• at 55 °C / rated value	14.99 A
• at AC / rated value	16 A
suitability for operation	Mechanical engineering / industry
Product details	
product component / neutral conductor switching	No

product feature / touch protection	Yes
product feature / touch protection	1 53
product component	Voc
combined terminal top	Yes
combined terminal bottom	Yes
product feature	V
 properties for main switches in accordance with EN 60204-1 	Yes
• halogen-free	Yes
• sealable	Yes
selicon-free	Yes
product extension / installable / supplementary devices	Yes
	165
Short circuit	
breaking capacity short-circuit current (Icn)	51.4
 at AC / acc. to UL 1077 and CSA C22.2 No.235 	5 kA
Connections	
connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• 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	0.75
• minimum	0.75 mm ²
• maximum	25 mm²
AWG number / as coded connectable conductor cross section	
	40
• minimum	18
• maximum	4
tightening torque [lbf·in] / with screw-type terminals	00 ll.f :
• minimum	22 lbf·in
• maximum	31 lbf-in
tightening torque / with screw-type terminals	0.5.11
• 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
net weight	456 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
vibration resistance / acc. 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 / acc. to IEC 60068-2-30	6
Certificates	
reference code	
• acc. to DIN EN 61346-2	F
• acc. to IEC 81346-2	F



Miscellaneous





Miscellaneous

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=5SY8316-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY8316-7

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

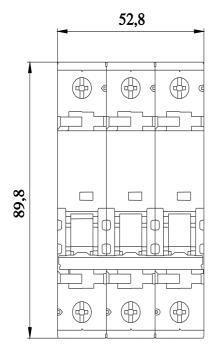
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8316-7

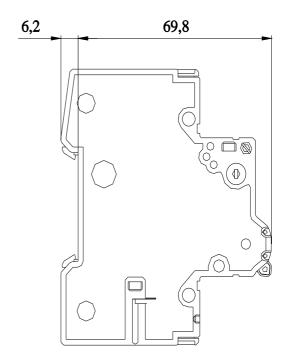
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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