

Miniature circuit breaker 400 V 15kA, 3+N-pole, B, 16A, D=70 mm



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	4
Number of poles / Note	3P+N
Tripping characteristic class	B
circuit-breaker / Design	5SY7
Mechanical service life (switching cycles) / typical	10 000
Oversvoltage category	III
Voltage	
Insulation voltage	
<ul style="list-style-type: none"> with single-phase operation / at AC / rated value 	440 V
<ul style="list-style-type: none"> with multi-phase operation / at AC / rated value 	440 V
Supply voltage / with single-phase operation / at AC / rated value	230 V
Supply voltage	

Type of voltage	AC
Current / at AC / rated value	16 A
Supply voltage <ul style="list-style-type: none"> • at AC / rated value 	400 V
Operating voltage <ul style="list-style-type: none"> • at DC / rated value / maximum 	72 V
Supply voltage frequency <ul style="list-style-type: none"> • rated value 	50/60 Hz

Protection class	
Protection class IP	IP20, with connected conductors

Switching capacity	
Switching capacity current <ul style="list-style-type: none"> • at DC / acc. to IEC 60947-2 / rated value • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value 	15 kA 15 kA 25 kA
Energy limiting class	3

Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.8 W

Current	
Tripping residual / rated value / derated current / at 40 Cel	15.23 A
Suitability for operation	Mechanical engineering / industry

Product details	
Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product component <ul style="list-style-type: none"> • combined terminal top • combined terminal bottom 	Yes Yes
Product feature <ul style="list-style-type: none"> • Properties for main switches in accordance with EN 60204-1 • halogen-free • sealable • silicon-free 	Yes Yes Yes Yes
Product extension / can be installed / supplementary devices	Yes

Short circuit	
Breaking capacity short-circuit current (I _{cn}) <ul style="list-style-type: none"> • at AC / acc. to UL 1077 and CSA C22.2 No.235 	5 kA

Connections

• Connectable conductor cross-section	
— solid	0.75 ... 35 mm ²
— stranded	0.75 ... 35 mm ²
• Connectable conductor cross-section / finely stranded / with core end processing	0.75 ... 25 mm ²
AWG number / as coded connectable conductor cross section	18 ... 4
Tightening torque [lbf·in] / with screw-type terminals	22 ... 31 lbf·in
Tightening torque / with screw-type terminals	2.5 ... 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 width units	4
Mounting type	Quick assembly system
Mounting position	any
Net weight	624 g

Environmental conditions

Influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
Ambient temperature	-40 ... +70 °C
• during storage	-40 ... +75 °C

Certificates

Reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

General Product Approval



CCC



IMQ



UR



VDE



RCM

[Miscellaneous](#)

Declaration of
Conformity

Shipping Approval

Railway



EG-Konf.



ABS



BUREAU
VERITAS



LRS



RINA

[Confirmation](#)

Railway

[Vibration and Shock](#)

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=5SY7616-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY7616-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7616-6

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





