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Show actual product details

Data sheet 5SY4102-7

CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 2A, D=70MM



Model	
product brandname	SENTRON
Product designation	Miniature circuit breakers

General technical data	
Number of poles	1
Number of poles / Note	1P
Tripping characteristic class	C
circuit-breaker / Design	5SY4
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3

Voltage	
Type of voltage	AC/DC
Insulation voltage	
• with single-phase operation / at AC / rated value	250 V
• with multi-phase operation / at AC / rated value	440 V

Supply voltage	
Supply voltage / at AC / rated value	400 V

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Protection class	
Protection class IP	IP20, with connected conductors
Energy limiting class	3

Switching capacity	
Switching capacity current	
• acc. to EN 60898 / rated value	10 kA
• acc. to IEC 60947-2 / rated value	35 kA

Dissipation	
Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	1.2 W
• maximum	1.2 W

Electricity	
rated current In / IEC, DIN/VDE / at 40 Cel	1.9 A
Current / at AC / rated value	2 A

Product details	
Product feature / Touch protection	Yes
Product component	
• combined terminal top	Yes
• combined terminal bottom	Yes
Product feature	
• Properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes

Product function	
Product function / neutral conductor switching	No

Short circuit	
Breaking capacity short-circuit current (Icn)	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA

Number	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6

Connections	
Connectable conductor cross-section / stranded	
• minimum	0.75 mm²
• maximum	35 mm²

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Connectable conductor cross-section	
• solid	
— minimum	0.75 mm²
— maximum	35 mm²
• finely stranded / with core end processing	
— minimum	0.75 mm²
— maximum	25 mm²
AWG number / as coded connectable conductor cross section	
• minimum	14
• maximum	4
Tightening torque [lbf·in] / with screw-type terminals	
• minimum	22 lbf·in
• maximum	26 lbf·in
Tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
Position / of power supply cord	Any

Mechanical Design

Height	90 mm
Width	18 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	1
Mounting type	Quick assembly system
Net weight	166 g

Environmental conditions

Influence of the surrounding temperature	Max. 95% humidity
Shock resistance / acc. to IEC 60068-2-27	150m/s² at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6	50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
Ambient temperature	
• minimum	-25 °C
• maximum	55 °C
• during storage / minimum	-40 °C
• during storage / maximum	75 °C

Certificates

Equipment marking / acc. to DIN EN 61346-2	F

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General Product Approval

CCC IMQ UL VDE RCM

sonstig

General Product Approval	Declaration of Conformity	Test Certificates		Shipping Approval	
KTL	EG-Konf.	sonstig	spezielle Prüfbescheinigungen	BUREAU VERITAS	LRS

Shipping Approval

RINA

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=5SY4102-7

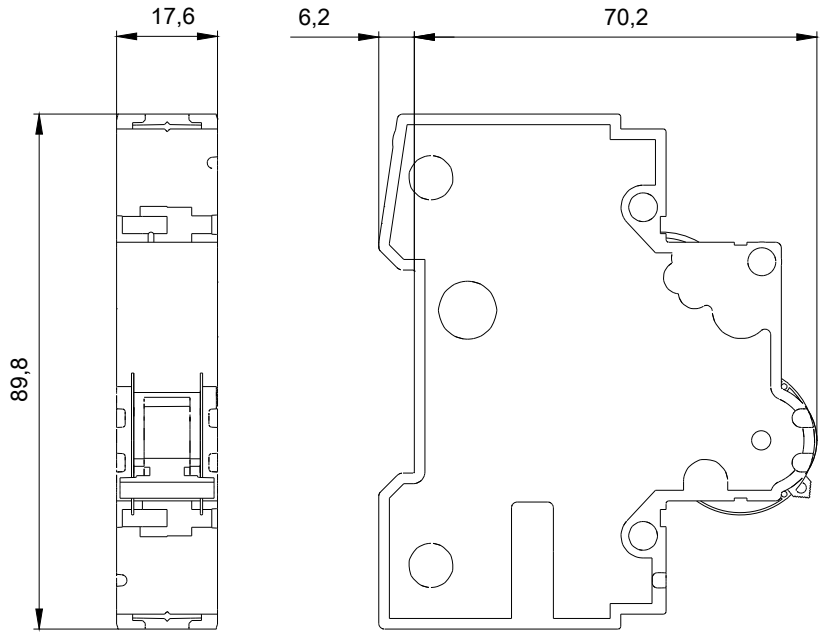
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/5SY4102-7/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4102-7

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications

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