

CIRCUIT BREAKER 400V 10KA, 3+N-POLE, C, 13A, D=70MM



Model	
product brandname	SENTRON
Product designation	Miniature circuit breakers
General technical data	
Number of poles	4
Number of poles / Note	3P+N
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	440 V
<ul style="list-style-type: none"> with multi-phase operation / at AC / rated value 	440 V
Supply voltage	
Supply voltage / at AC / rated value	400 V
Protection class	

Protection class IP	IP20, with connected conductors
Energy limiting class	3
Switching capacity	
Switching capacity current	
<ul style="list-style-type: none"> • acc. to EN 60898 / rated value 	10 kA
<ul style="list-style-type: none"> • acc. to IEC 60947-2 / rated value 	20 kA
Dissipation	
Power loss [W]	
<ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole 	1.4 W
<ul style="list-style-type: none"> • maximum 	4.2 W
Electricity	
rated current I_n / IEC, DIN/VDE / at 40 Cel	12.35 A
Current / at AC / rated value	13 A
Product details	
Product feature / Touch protection	Yes
Product component	
<ul style="list-style-type: none"> • combined terminal top 	Yes
<ul style="list-style-type: none"> • combined terminal bottom 	Yes
Product feature	
<ul style="list-style-type: none"> • Properties for main switches in accordance with EN 60204-1 	Yes
<ul style="list-style-type: none"> • halogen-free 	Yes
<ul style="list-style-type: none"> • sealable 	Yes
<ul style="list-style-type: none"> • silicon-free 	Yes
Product extension / can be installed / supplementary devices	Yes
Product function	
Product function / neutral conductor switching	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
Number	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
Connections	
Connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> • minimum 	0.75 mm ²
<ul style="list-style-type: none"> • maximum 	35 mm ²
Connectable conductor cross-section	

<ul style="list-style-type: none"> • solid <ul style="list-style-type: none"> — minimum 0.75 mm² — maximum 35 mm² • finely stranded / with core end processing <ul style="list-style-type: none"> — minimum 0.75 mm² — maximum 25 mm² 	
AWG number / as coded connectable conductor cross section	
<ul style="list-style-type: none"> • minimum 14 • maximum 4 	
Tightening torque [lbf·in] / with screw-type terminals	
<ul style="list-style-type: none"> • minimum 22 lbf·in • maximum 26 lbf·in 	
Tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> • minimum 2.5 N·m • maximum 3 N·m 	
Position / of power supply cord	Any

Mechanical Design

Height	90 mm
Width	72 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	4
Mounting type	Quick assembly system
Net weight	623 g

Environmental conditions

Influence of the surrounding temperature	Max. 95% humidity
Shock resistance / acc. to IEC 60068-2-27	150m/s ² at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6	50m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
Ambient temperature	
<ul style="list-style-type: none"> • 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](#)

Declaration of
Conformity

Test
Certificates

Shipping Approval



EG-Konf.

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LRS



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=5SY4613-7>

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

<http://support.automation.siemens.com/WW/view/en/5SY4613-7/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4613-7

CAx-Online-Generator

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

Tender specifications

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



