

CIRCUIT BREAKER 400V 10KA, 2-POLE, C, 13A, D=70MM



Model		
product brand name		SENTRON
Product designation		5SY miniature circuit breaker
Design of the product		5SY miniature circuit breakers
General technical data		
Number of poles		2
Number of poles / Note		2P
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 multi-phase operation / at AC / rated value	V	440
Supply voltage		
Supply voltage / at AC / rated value	V	400
Supply voltage frequency / rated value	Hz	50

Protection class		
Protection class IP		IP20, with connected conductors
Energy limiting class		3
Switching capacity		
Switching capacity current		
<ul style="list-style-type: none"> at DC / acc. to IEC 60947-2 / rated value 	kA	15
<ul style="list-style-type: none"> acc. to EN 60898 / rated value 	kA	10
<ul style="list-style-type: none"> acc. to IEC 60947-2 / rated value 	kA	20
Dissipation		
Power loss [W]		
<ul style="list-style-type: none"> for rated value of the current / at AC / in hot operating state / per pole 	W	1.4
Electricity		
rated current I _n / IEC, DIN/VDE / at 40 Cel	A	12.35
Current / at AC / rated value	A	13
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"> silicon-free 		Yes
Product expansion / can be installed / supplementary devices		Yes
Product function		
Product function / neutral conductor switching		No
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 	kA	5
<ul style="list-style-type: none"> at DC / acc. to EN 60898-2 	kA	10
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 	mm ²	0.75

<ul style="list-style-type: none"> • maximum 	mm ²	35
Connectable conductor cross-section		
<ul style="list-style-type: none"> • solid <ul style="list-style-type: none"> — minimum — maximum • finely stranded / with core end processing <ul style="list-style-type: none"> — minimum — maximum 	mm ² mm ² mm ² mm ²	0.75 35 0.75 25
AWG number / as coded connectable conductor cross section		
<ul style="list-style-type: none"> • minimum • maximum 		14 4
Tightening torque [lbf·in] / with screw-type terminals		
<ul style="list-style-type: none"> • minimum • maximum 	lbf·in lbf·in	22 26
Tightening torque / with screw-type terminals		
<ul style="list-style-type: none"> • minimum • maximum 	N·m N·m	2.5 3
Position / of power supply cord		Any

Mechanical Design

Height	mm	90
Width	mm	36
Depth	mm	76
Mounting position		any
Installation depth	mm	70
Number of width units		2
Mounting type		Quick assembly system
Net weight	g	326

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 • maximum • during storage / minimum • during storage / maximum 	°C °C °C °C	-25 55 -40 75

Certificates

Equipment marking / acc. to DIN EN 61346-2		F
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General Product Approval	Declaration of Conformity
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CCC



IMQ



UL



VDE



EG-Konf.

Test Certificates	Shipping Approval
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GL



LRS

Shipping Approval



RINA

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY42137>

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

<http://support.automation.siemens.com/WW/view/en/5SY42137/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY42137

CAX-Online-Generator

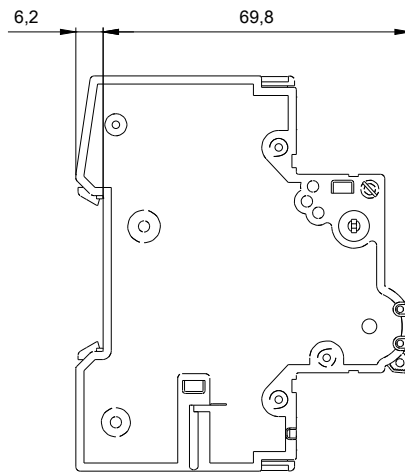
<http://www.siemens.com/cax>

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



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