

CIRCUIT BREAKER 230/400V 10KA, 1-POLE, B, 100A, D=70MM



Model		
product brand name		SENTRON
Product designation		Miniature circuit breakers
Design of the product		5SP Miniature circuit breakers

General technical data		
Number of poles		1
Number of poles / Note		1P
Tripping characteristic class		B
circuit-breaker / Design		5SP4
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3

Voltage		
Insulation voltage		
<ul style="list-style-type: none"> with AC / Rated value 	V	440

Supply voltage		
Supply voltage frequency / Rated value	Hz	50

Protection class		
Protection class IP		IP20, with connected conductors

Switching capacity		
Switching capacity current		
<ul style="list-style-type: none"> for 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	10

Dissipation		
Active power loss		
<ul style="list-style-type: none"> for rated value of the current / with AC / in hot operating state / per pole 	W	8
Electricity		
rated current I _n / IEC, DIN/VDE / at 40 Cel	A	92.5
Current / with AC / Rated value	A	100
Product details		
Product feature / Touch protection		Yes
Product component		
<ul style="list-style-type: none"> Tunnel terminals top 		Yes
<ul style="list-style-type: none"> Tunnel terminals bottom 		Yes
Product property		
<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 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"> with AC / acc. to UL 1077 and CSA C22.2 No.235 	kA	5
<ul style="list-style-type: none"> for 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	4
<ul style="list-style-type: none"> maximum 	mm ²	50
Connectable conductor cross-section		
<ul style="list-style-type: none"> solid 		
<ul style="list-style-type: none"> — minimum 	mm ²	4
<ul style="list-style-type: none"> — maximum 	mm ²	50
<ul style="list-style-type: none"> finely stranded / with core end processing 		
<ul style="list-style-type: none"> — minimum 	mm ²	1.5

— maximum	mm ²	35
AWG number / as coded connectable conductor cross section		
• minimum		14
• maximum		2
Tightening torque [lbf·in] / with screw-type terminals		
• minimum	lbf·in	22
• maximum	lbf·in	31
Tightening torque / with screw-type terminals		
• minimum	N·m	2.5
• maximum	N·m	3.5
Position / of power supply cord		Any

Mechanical Design

Height	mm	90
Width	mm	27
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		1.5
Mounting type		Standard mounting rail and screw fixing

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

Certificates

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



Declaration of Conformity	Test Certificates	Shipping Approval	other
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[Special Test Certificate](#)



GL



LRS

[other](#)

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/5SP41916>

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

<http://support.automation.siemens.com/WW/view/en/5SP41916/all>

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

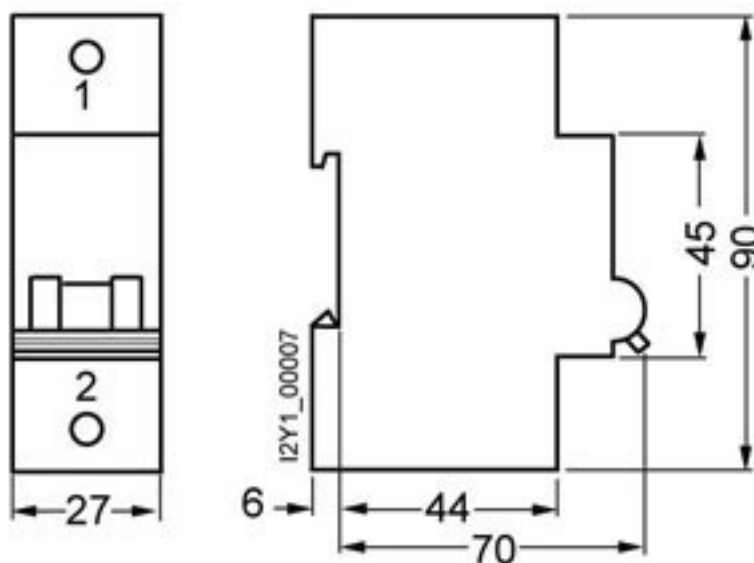
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP41916

CAX-Online-Generator

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

Tender specifications

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



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11.03.2015