

CIRCUIT BREAKER 400V 10KA, 4-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		4
Number of poles / Note		4P
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
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Protection class

Protection class IP		IP20, with connected conductors
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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	95
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	108
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		6
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
 EG-Konf.	Special Test Certificate	 GL	Lloyd's Register 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/5SP44916>

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

<http://support.automation.siemens.com/WW/view/en/5SP44916/all>

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

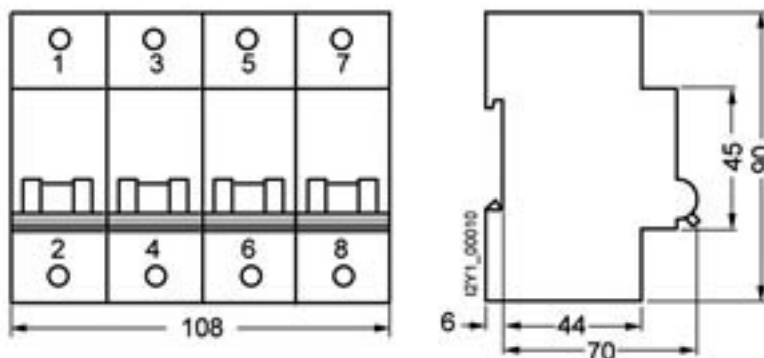
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP44916

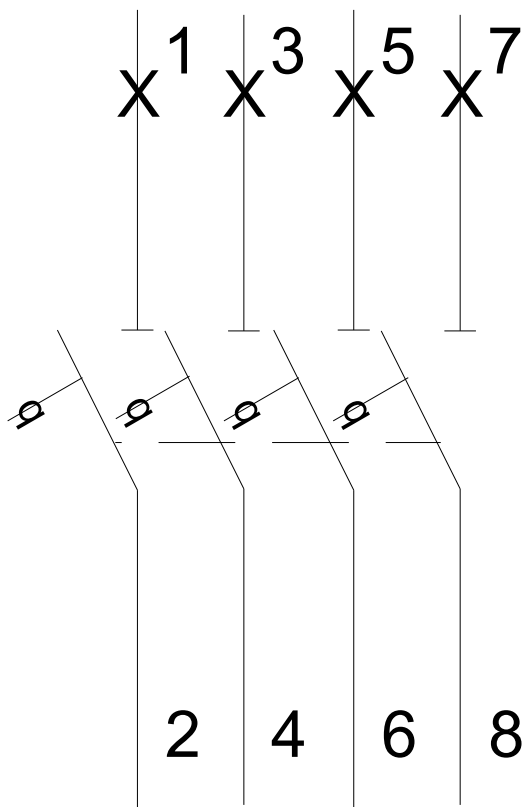
CAX-Online-Generator

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

Tender specifications

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





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