SIEMENS

Data sheet 5SY6510-6

CIRCUIT BREAKER 230V 6KA,1+N-POLE B, 10A, D=70MM

Model	
product brandname	SENTRON
Product designation	Miniature circuit breakers
General technical data	
Number of poles	2
Number of poles / Note	1P+N
Tripping characteristic class	B
circuit-breaker / Design	5SY6
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
Supply voltage	
Supply voltage / at AC / rated value	230 V
Supply voltage frequency	

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• rated value	50/60 Hz

Protection class

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

Switching capacity

Switching capacity current	
• acc. to EN 60898 / rated value	6 kA
• acc. to IEC 60947-2 / rated value	15 kA

Dissipation

Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	1.3 W
• maximum	2.6 W

Electricity

rated current In / IEC, DIN/VDE / at 40 Cel	9.6 A
Current / at AC / rated value	10 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	Yes

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	

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• minimum	0.75 mm²
• maximum	35 mm²
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	36 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	2
Mounting type	Quick assembly system
Net weight	308 g

Environmental conditions

Influence of the surrounding temperature	Max. 95% humidity
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 sonstig RCM

Declaration of Conformity | Test Certificates | Shipping Approval

EG-Konf. sonstig ABS BUREAU VERITAS 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=5SY6510-6

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/5SY6510-6/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6510-6

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

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

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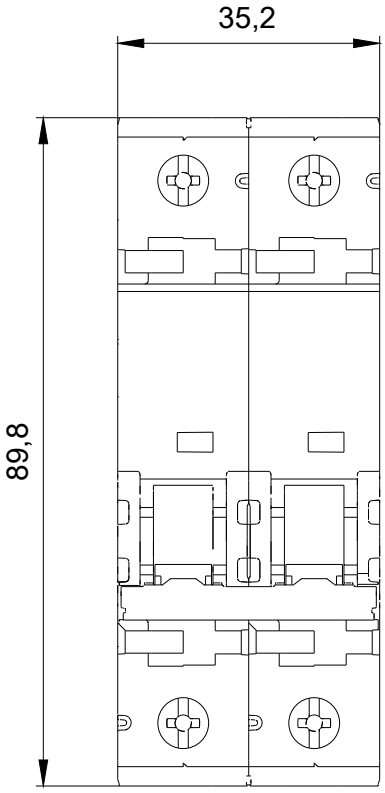

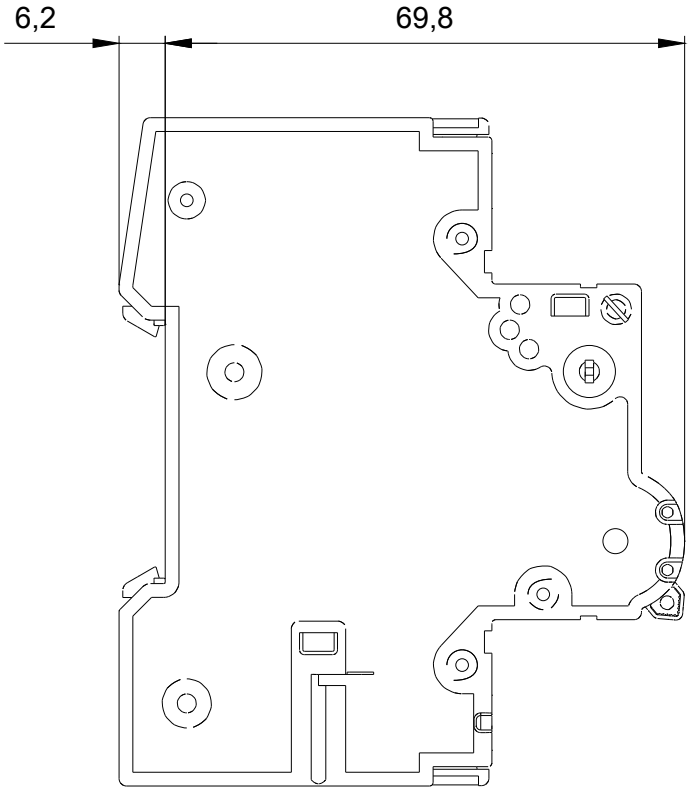

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