



CIRCUIT BREAKER 230V 6KA, 1+N-POLE/1MW B10

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	Miniature circuit breaker compact
General technical data	
design of pole	1P+N
tripping characteristic class	B
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
type of voltage / of the operating voltage	AC
insulation voltage (Ui) / at AC / rated value	250 V
Supply voltage	
supply voltage	
• at AC / rated value	230 V
value range / of the supply voltage frequency	50/60 Hz
operating voltage	
• minimum	24 V
• with single-phase operation / at AC / maximum	250 V
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
• according to EN 60898 / rated value	6 kA
energy limitation class	3
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.9 W
Current	
operational current	
• at 30 °C / rated value	10 A
• at 40 °C / rated value	9.52 A
• at 45 °C / rated value	9.27 A
• at 50 °C / rated value	9.01 A
• at 55 °C / rated value	8.75 A
• at 60 °C / rated value	8.48 A
• at AC / rated value	10 A
Suitability	

suitability for operation	Residential buildings/infrastructure	
Product details		
product component / neutral conductor switching	Yes	
product feature / touch protection	Yes	
product component		
• combined terminal top	No	
• combined terminal bottom	No	
product feature		
• properties for main switches in accordance with EN 60204-1	No	
• halogen-free	Yes	
• sealable	Yes	
• silicon-free	Yes	
product extension / installable / supplementary devices	Yes	
Connections		
connectable conductor cross-section / solid		
• minimum	0.75 mm²	
• maximum	16 mm²	
connectable conductor cross-section / stranded		
• minimum	0.75 mm²	
• maximum	16 mm²	
connectable conductor cross-section / finely stranded / with core end processing		
• minimum	0.75 mm²	
• maximum	10 mm²	
tightening torque [lbf·in] / with screw-type terminals		
• minimum	17.7 lbf·in	
• maximum	22.1 lbf·in	
tightening torque / with screw-type terminals		
• minimum	2 N·m	
• maximum	2.5 N·m	
position / of power supply cord	Any	
Mechanical Design		
height	90 mm	
width	18 mm	
depth	76 mm	
installation depth	70 mm	
number of modular width units	1	
fastening method	standard rail	
mounting position	any	
net weight	113.2 g	
Environmental conditions		
vibration resistance / according to IEC 60068-2-6	Yes	
ambient temperature / during operation		
• minimum	-25 °C	
• maximum	60 °C	
ambient temperature / during storage		
• minimum	-40 °C	
• maximum	75 °C	
number of test cycles / for environmental testing / according to IEC 60068-2-30	6	
Certificates		
reference code		
• according to EN 61346-2	F	
• according to IEC 81346-2	F	
General Product Approval		Declaration of Conformity



[Confirmation](#)



[UK Declaration of Conformity](#)

Declaration of
Conformity

Marine / Shipping

other



EG-Konf.



[Miscellaneous](#)

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=5SL6010-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6010-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6010-6

CAX-Online-Generator

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

Tender specifications

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





