



RCBO compact 1P+N 6 kA type A(G) 30 mA B6

Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Short-time delayed G, super resistant K
General technical data	
number of poles	2
number of poles / note	1P+N
number of poles / with protection	1
tripping characteristic class	B
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
surge current resistance / at (8/20) μ s	3 kA
Supply voltage	
type of voltage	AC
operational current / at AC / rated value	6 A
supply voltage	
• at AC / rated value	230 V
• for testing equipment / minimum	195 V
operating frequency	50/60 Hz
supply voltage frequency / rated value	50 Hz
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Switching capacity	
breaking capacity short-circuit current (I _{cn}) / according to EN 61009-1 / rated value	6 kA
switching capacity current	
• acc. to EN 60898 / rated value	6 kA
• acc. to IEC 60947-2 / rated value	35 kA
rated residual switching capacity (I Δ m) / according to IEC 61009-1	4.5 kA
energy limitation class	3
Current	
tripping fault current / rated value	30 mA
residual current type	A
Product details	

product function / neutral conductor switching	Yes
product feature / touch protection	Yes
product feature	
• halogen-free	Yes
• silicon-free	Yes

Connections

connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm ²
• maximum	10 mm ²
tightening torque / with screw-type terminals	
• minimum	1.2 N·m
• maximum	2 N·m
position / of power supply cord	Either top or bottom

Mechanical Design

height	90 mm
width	18 mm
depth	77 mm
installation depth	70 mm
number of modular width units	1
mounting position	any
net weight	117 g
weight / with packaging	133 g

Environmental conditions

influence of the surrounding temperature	Max. 95% humidity
ambient temperature / during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

Certificates

reference code	
• acc. to DIN EN 61346-2	F
• acc. to IEC 81346-2	F

General Product Approval	Declaration of Conformity
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Test Certificates	other
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