

Residual current operated circuit breaker, 2-pole, type B+, short-time delayed, In: 40 A, 300 mA, Un AC: 230 V



Model	
Product brand name	SENTRON
Product designation	RCCB
Design of the product	Short-time delayed
General technical data	
Number of poles	2
Size of installation devices / acc. to DIN 43880	1
Protection against electrical shock	Finger and back-of-hand safe
Short-circuit current rating	10 kA
circuit-breaker / Design	5SM3
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	Yes
Overvoltage category	III
Supply voltage	
Operating current / at AC / rated value	40 A
Supply voltage	
• at AC / rated value	230 V
• for testing equipment / minimum	195 V

Supply voltage frequency	
• rated value	50 Hz
Protection class	
Protection class IP	IP20, if the distribution board is installed, with connected conductors
Switching capacity	
Switching capacity current / according to IEC 61008-1 / rated value	0.8 kA
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.2 W
Current	
Tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
• at 40 Cel	40 A
• at 45 Cel	40 A
• at 50 Cel	38.4 A
• at 55 Cel	36.8 A
• at 60 Cel	35.2 A
• at 65 Cel	33.6 A
• at 70 Cel	32 A
Type of fault current	B+
I ² t-value / permissible	70 000 A ² ·s
Surge current resistance / rated value	3 kA
Product details	
Product feature / silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes
Connections	
Connectable conductor cross-section / solid	
• minimum	1.5 mm ²
• maximum	25 mm ²
Connectable conductor cross-section / stranded	
• minimum	1.5 mm ²
• maximum	25 mm ²
Tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
Position / of power supply cord	Top or bottom (bottom for SIGRES function also in switched-off state)

Mechanical Design

Height	90 mm
Width	72 mm
Depth	70 mm
Installation depth	70 mm
Number of width units	4
Mounting type	DIN rail (REG)
Mounting position	any
Net weight	560 g

Environmental conditions

Ambient temperature	
• minimum	-25 °C
• maximum	45 °C
Ambient temperature / during storage	
• minimum permissible	-40 °C
• maximum permissible	75 °C

Certificates

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

General Product Approval	Declaration of Con- formity	other
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[Miscellaneous](#)



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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=5SM3624-4KK14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3624-4KK14>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3624-4KK14

CAX-Online-Generator

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

Tender specifications

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