

Residual current operated circuit breaker, 2-pole, type B+, short-time delayed, In: 40 A, 30 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
circuit-breaker / Design	5SM3
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	Yes
Overvoltage category	III
Supply voltage	
Current / at AC / rated value	40 A
<ul style="list-style-type: none"> • Supply voltage / at AC / rated value • Supply voltage / for testing equipment / minimum • rated value 	230 V 195 V 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	30 mA
Tripping residual / rated value / derated current	
<ul style="list-style-type: none"> • at 40 Cel • at 45 Cel • at 50 Cel • at 55 Cel • at 60 Cel • at 65 Cel • at 70 Cel 	40 A 40 A 37.6 A 35.2 A 32.8 A 30.4 A 28 A
Type of fault current	B+
I ² t-value / permissible	70 000 A ² ·s
Surge current resistance / rated value	3 kA
Operating frequency	50/60Hz

Product details	
Product feature / silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes

Connections	
Connectable conductor cross-section	
<ul style="list-style-type: none"> • solid • stranded 	1.5 ... 25 mm ² 1.5 ... 25 mm ²
Tightening torque / with screw-type terminals	2.5 ... 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	-25 ... +45 °C
• during storage	-40 ... +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
---------------------------------	--	--------------



[Miscellaneous](#)



[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=5SM3324-4KK14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3324-4KK14>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3324-4KK14

CAX-Online-Generator

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

Tender specifications

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