

Residual current operated circuit breaker, 2-pole, type F, selective,
In: 80 A, 300 mA, Un AC: 230 V



Model	
Product brand name	SENTRON
Product designation	RCCB
Design of the product	Selective
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	5SV3
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	No
Overvoltage category	III
Supply voltage	
Supply voltage	
• at AC / rated value	230/400 V
• for testing equipment / minimum	100 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	3.9 W
Electricity	
Tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
• at 40 Cel	80 A
• at 45 Cel	77.87 A
• at 50 Cel	74.77 A
• at 55 Cel	70.26 A
• at 60 Cel	64.32 A
• at 65 Cel	56.96 A
• at 70 Cel	48.19 A
Type of fault current	F
Current / at AC / rated value	80 A
I ² t-value / permissible	53 000 A ² ·s
Surge current resistance / rated value	5 kA
Operating frequency	50/60Hz
Product details	
Product feature / silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes
Number	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28
Connections	
Connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	35 mm ²
Connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	35 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

Mechanical Design

Height	90 mm
Width	36 mm
Depth	70 mm
Mounting position	any
Installation depth	70 mm
Number of width units	2
Mounting type	DIN rail (REG)
Net weight	200 g

Environmental conditions

Ambient temperature	
• minimum	-25 °C
• maximum	45 °C
• during storage / minimum permissible	-40 °C
• during storage / 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 Conformity	other	Railway
--------------------------	---------------------------	-------	---------



[Miscellaneous](#)



EG-Konf.

[Miscellaneous](#)

[Vibration and Shock](#)

[Confirmation](#)

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=5SV3617-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3617-7>

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

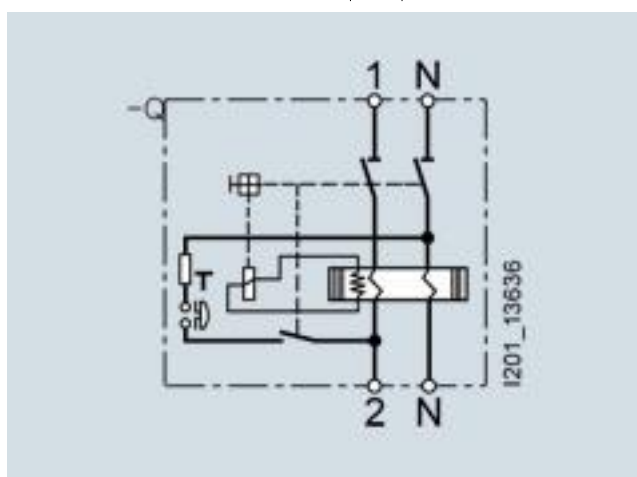
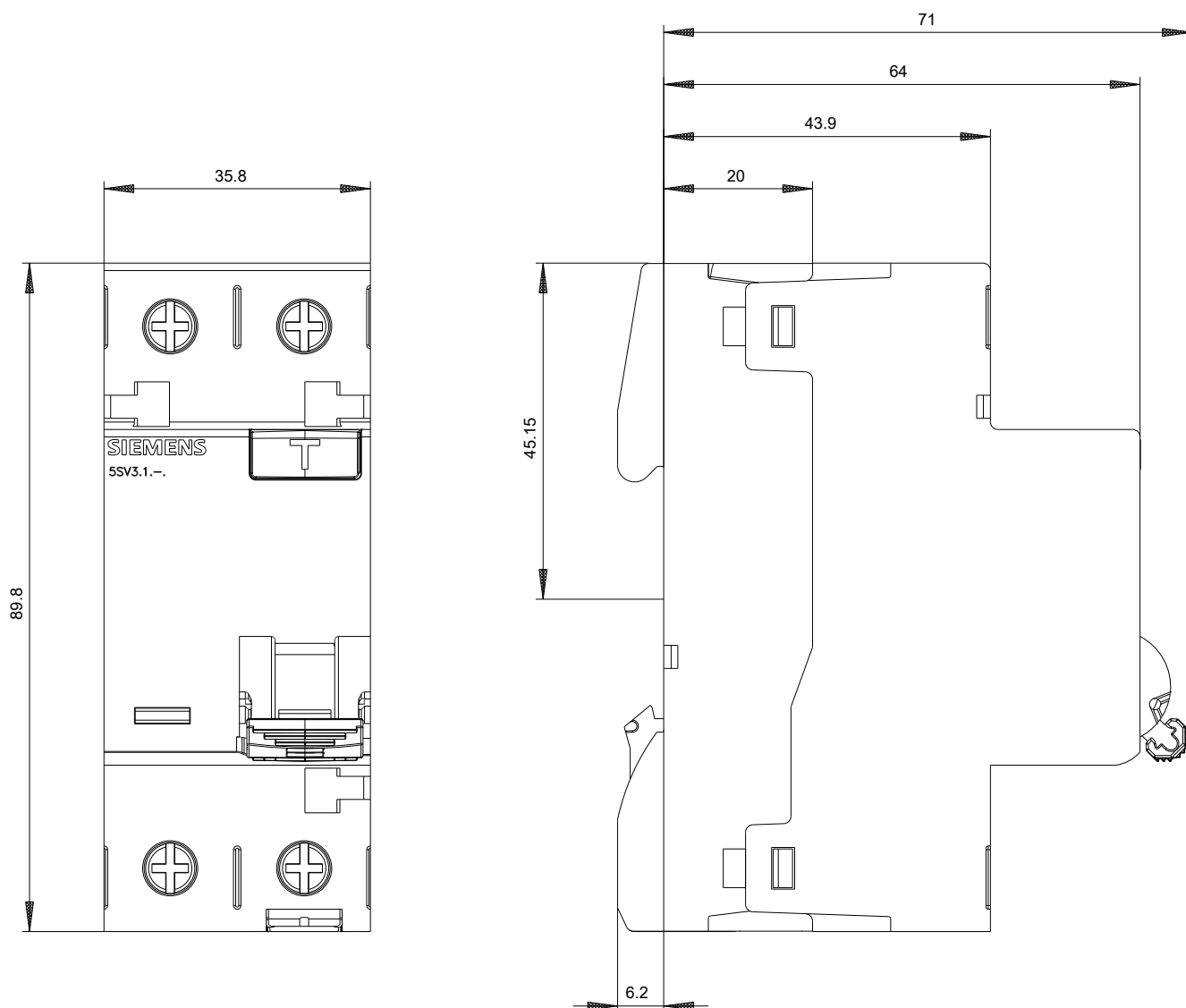
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3617-7

CAX-Online-Generator

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

Tender specifications

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



Internal circuit diagram IEC

-CB

