SIEMENS

Data sheet 5SV3646-4

Residual current operated circuit breaker, 4-pole, Type B, short-time delayed, In: 63 A, 300 mA, Un AC: 400 V



Model	
Product brand name	SENTRON
Product designation	RCCB
Design of the product	Short-time delayed

General technical data	
Number of poles	4
Size of installation devices / acc. to DIN 43880	1
Protection against electrical shock	Finger and back-of-hand safe
Short-circuit current / of series fuse / maximum permissible	100 A
Short-circuit current rating	10 kA
circuit-breaker / Design	5SV3
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	63 A
Supply voltage	

Subject to change without notice
© Copyright Siemens

• at AC / rated value	400 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	5 W

Current

Tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
• at 40 Cel	63 A
• at 45 Cel	63 A
• at 50 Cel	63 A
• at 55 Cel	63 A
• at 60 Cel	63 A
• at 65 Cel	55 A
• at 70 Cel	48 A
Type of fault current	B
I2t-value / permissible	60 000 $A^2 \cdot s$
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	0.75 mm^2
• maximum	35 mm^2
Connectable conductor cross-section / stranded	
• minimum	0.75 mm^2
• maximum	35 mm^2
Tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m

Subject to change without notice
© Copyright Siemens

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	545 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 Conformity	other		Railway
	Miscellaneous		Miscellaneous	Confirmation	Vibration and Shock
VDE		EG-Konf.			

Railway

Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

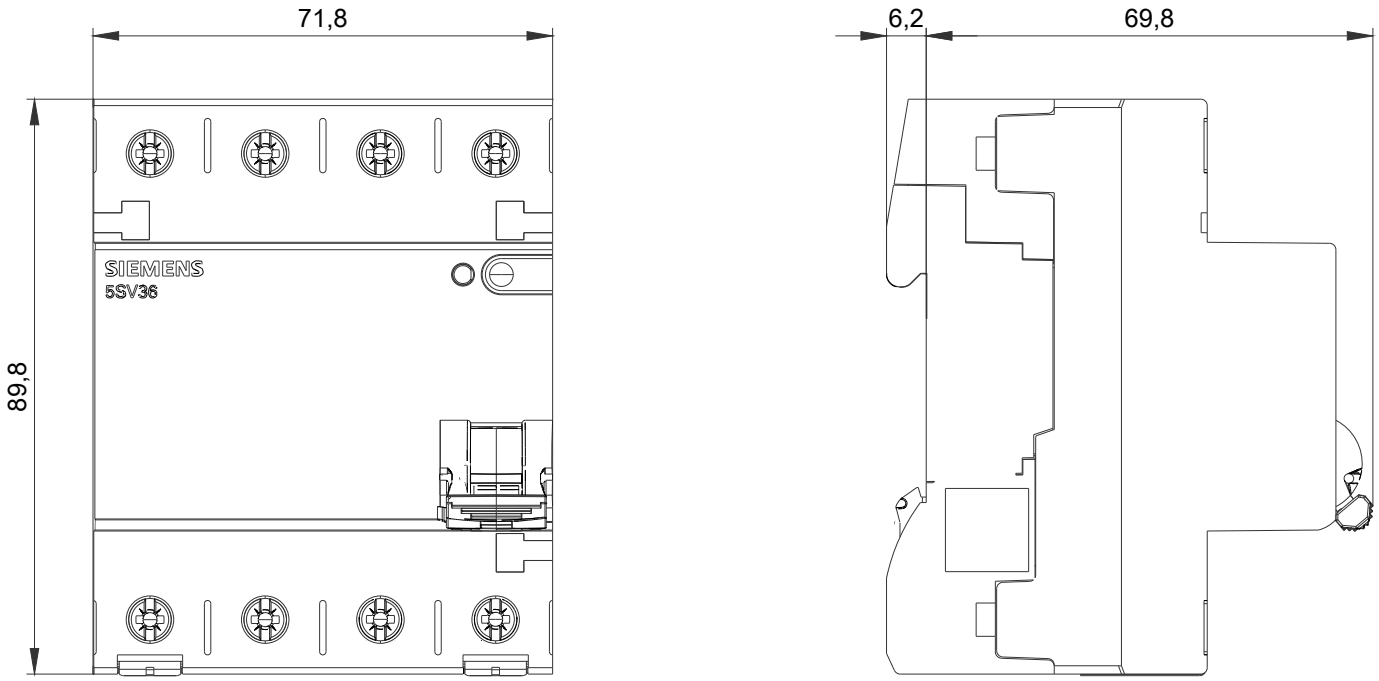
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV3646-4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SV3646-4

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3646-4

CAx-Online-Generator
http://www.siemens.com/cax

Subject to change without notice
© Copyright Siemens



Subject to change without notice
© Copyright Siemens

Subject to change without notice
© Copyright Siemens