SIEMENS

Data sheet 5SV4645-0



residual current operated circuit breaker, 4-pole, type AC, In: 125 A, 300 mA, Un AC: 400 V, use of these devices is not permitted in all countries. Observe national installation regulations!

Model	
product brand name	SENTRON
product designation	Residual current operated circuit breaker
design of the product	Instantaneous
product type designation	5SV4
General technical data	
number of poles	4
size of installation devices according to DIN 43880	1
mechanical service life (operating cycles) typical	5 000
short-circuit current of series fuse maximum permissible	125 A
short-circuit current rating	10 kA
switching function short-term delayed	No
degree of pollution	2
insulation voltage (Ui) rated value	2 000 V
tripping fault current rated value	300 mA
let-through current permissible	6 400 A
I2t value permissible	60 000 $A^2 \cdot s$
Supply voltage	
supply voltage for testing equipment minimum	195 V
value range of the supply voltage frequency	50 Hz
value range of the operating frequency	50 Hz
value range of the supply voltage at AC	230/400 V
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Breaking Capacity	
switching capacity current	
● according to EN 60898 rated value	1.25 kA
● according to IEC 61008-1 rated value	1.25 kA
grid spacing	60 mm
Dissipation	
power loss [W]	
● for rated value of the current at AC in hot operating state per pole	10.5 W
● maximum	28 W
Appearance	
RAL color number	7 035

Subject to change without notice
© Copyright Siemens

RAL color number (similar)	7 035
Product details	
product feature silicon-free	Yes
product extension installable supplementary devices	No
Connections	
connectable conductor cross-section solid	
● minimum	1 mm²
● maximum	50 mm²
connectable conductor cross-section stranded	
● minimum	1 mm²
● maximum	50 mm²
tightening torque with screw-type terminals	
● minimum	3 N·m
● maximum	3.5 N·m
position of power supply cord	top or bottom
Mechanical Design	
height	85 mm
width	71 mm
depth	73 mm
installation depth	70 mm
number of modular width units	4
fastening method	DIN-rail mounting
mounting position	any
Net Weight	380 g
Environmental conditions	
ambient temperature during operation	
● minimum	-25 °C
● maximum	40 °C
ambient temperature during storage minimum	-35 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28

Approvals Certificates

Environment		General Product Approval	
Environmental Con-firmations	Siemens EcoTech	Environmental Con-firmations	Miscellaneous

General Product Approval		Test Certificates	other	
Confirmation	CE EG-Konf.	Miscellaneous	产品合格 QC PASS	Confirmation

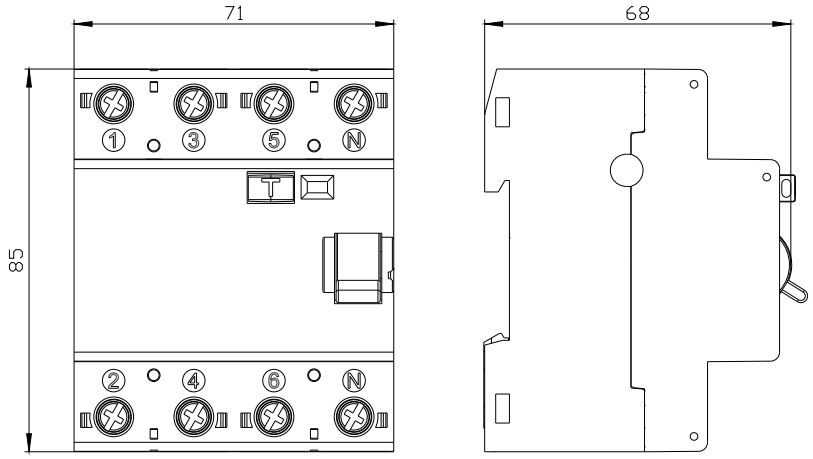
Railway	Dangerous goods
Special Test Certific-ate	Transport Information

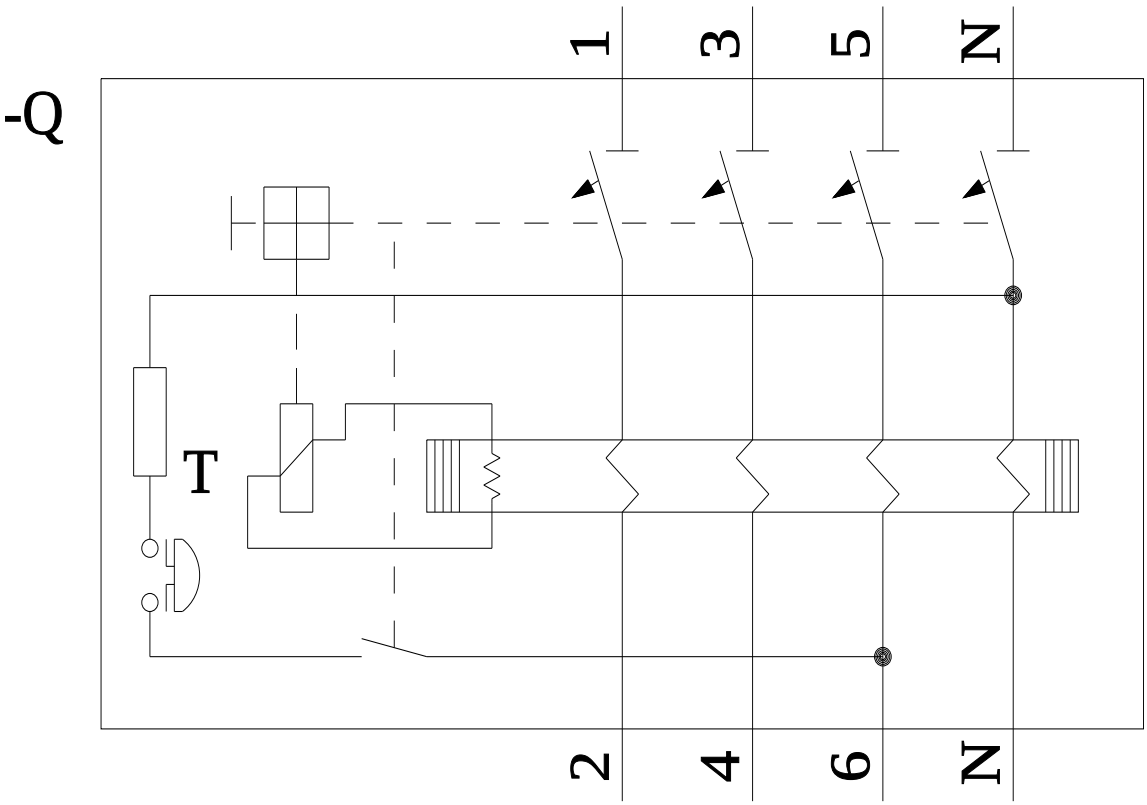
Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs

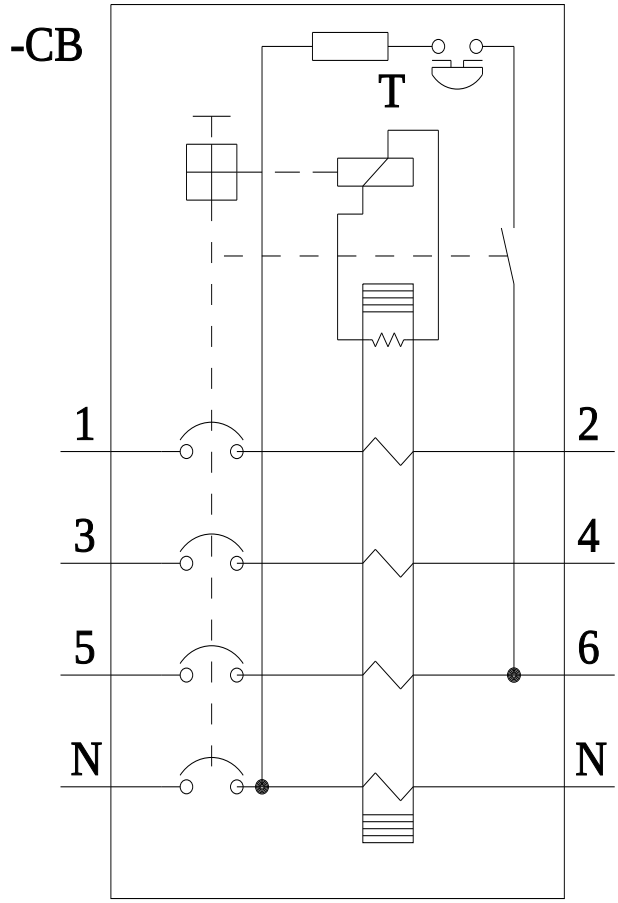
Subject to change without notice
© Copyright Siemens

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV4645-0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SV4645-0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV4645-0
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/5SV4645-0





Subject to change without notice
© Copyright Siemens



last modified: 10/22/2026

Subject to change without notice
© Copyright Siemens

Subject to change without notice
© Copyright Siemens