SIEMENS

Data sheet 5SV3645-6KK01

Residual current operated circuit breaker, 4-pole, type A, In: 125 A, 300 mA, Un AC: 400 V short-time delayed

Model	
product brand name	SENTRON
product designation	Residual current operated circuit breaker
design of the product	Short-time delayed
product type designation	5SV3
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	Yes
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 A²·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

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 position	any
Net Weight	371 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
Environmental footprint	
global warming potential [CO2 eq] total	63.8 kg
global warming potential [CO2 eq] during manufacturing	1.98 kg
global warming potential [CO2 eq] during operation	61.7 kg
global warming potential [CO2 eq] after end of life	0.106 kg

Approvals Certificates

General Product Approval			Test Certificates	other
CE EG-Konf.	Confirmation	Miscellaneous	EAC Miscellaneous	Confirmation

other	Railway	Environment		
产品合格 QC PASS	Special Test Certific-ate	Environmental Con-firmations	EPD Siemens EcoTech	Environmental Con-firmations

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
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV3645-6KK01
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

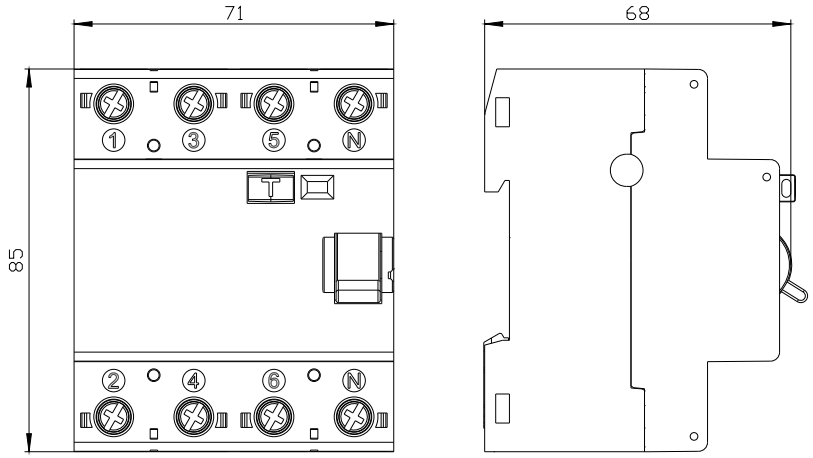
https://support.industry.siemens.com/cs/ww/en/ps/5SV3645-6KK01

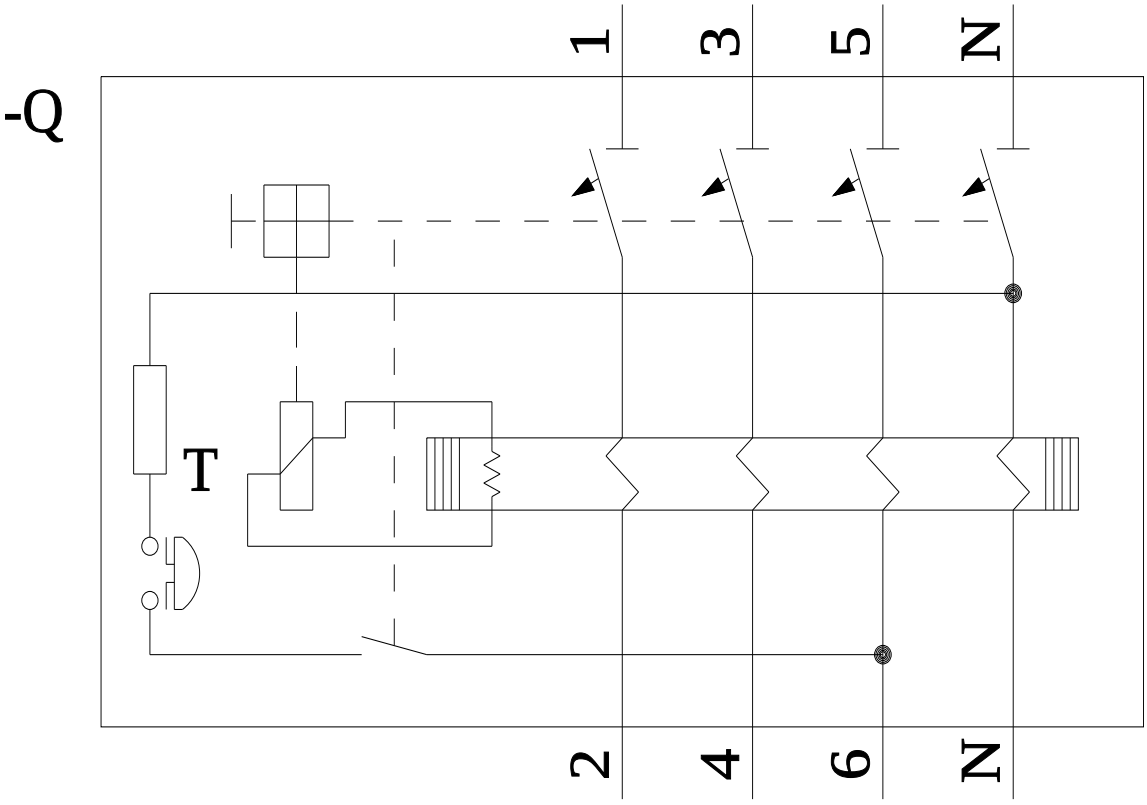
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3645-6KK01

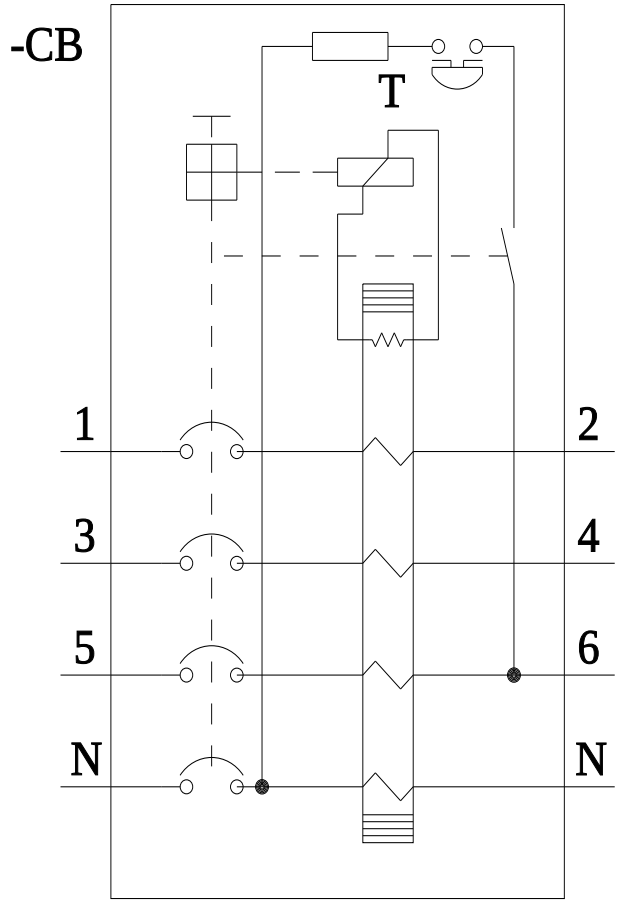
CAx-Online-Generator
https://www.siemens.com/cax

Tender specifications
https://www.siemens.com/specifications

Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod__no>







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