














Residual current operated circuit breaker, 4-pole, type A, In: 63 A, 300 mA, Un AC: 400 V

Model	
product brand name	SENTRON
product designation	Residual current operated circuit breaker
design of the product	Instantaneous
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	10 000
short-circuit current of series fuse maximum permissible	100 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	7 100 A
I ² t value permissible	110 000 A ² ·s
Supply voltage	
supply voltage for testing equipment minimum	100 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 IEC 61008-1 rated value	0.8 kA
grid spacing	60 mm
Dissipation	
power loss [W]	
• for rated value of the current at AC in hot operating state per pole	3.9 W
• maximum	11.7 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	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				
position of power supply cord	top or bottom				
Mechanical Design					
height	90 mm				
width	72 mm				
depth	70 mm				
installation depth	70 mm				
number of modular width units	4				
fastening method	DIN rail				
mounting position	any				
Net Weight	336 g				
Environmental conditions					
ambient temperature during operation					
• minimum	-25 °C				
• maximum	45 °C				
ambient temperature during storage minimum	-40 °C				
number of test cycles for environmental testing according to IEC 60068-2-30	28				
Environmental footprint					
Environmental Product Declaration(EPD)	Yes				
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					
			Confirmation		
General Product Approval		EMV	Test Certificates	other	
	Miscellaneous			Miscellaneous	
other	Railway	Dangerous goods	Environment		
Confirmation	Special Test Certificate	Transport Information			Environmental Confirmations
Environment					

[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=5SV3646-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3646-6>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3646-6

CAx-Online-Generator

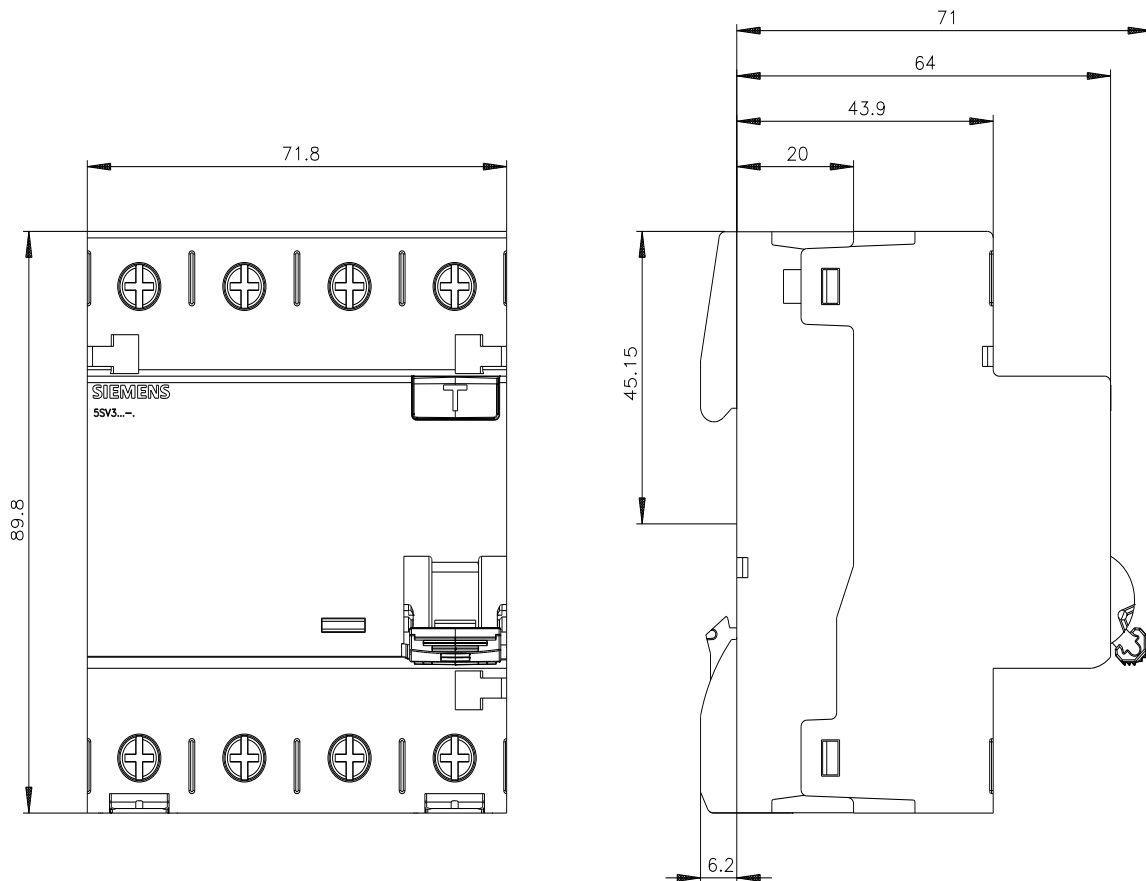
<https://www.siemens.com/cax>

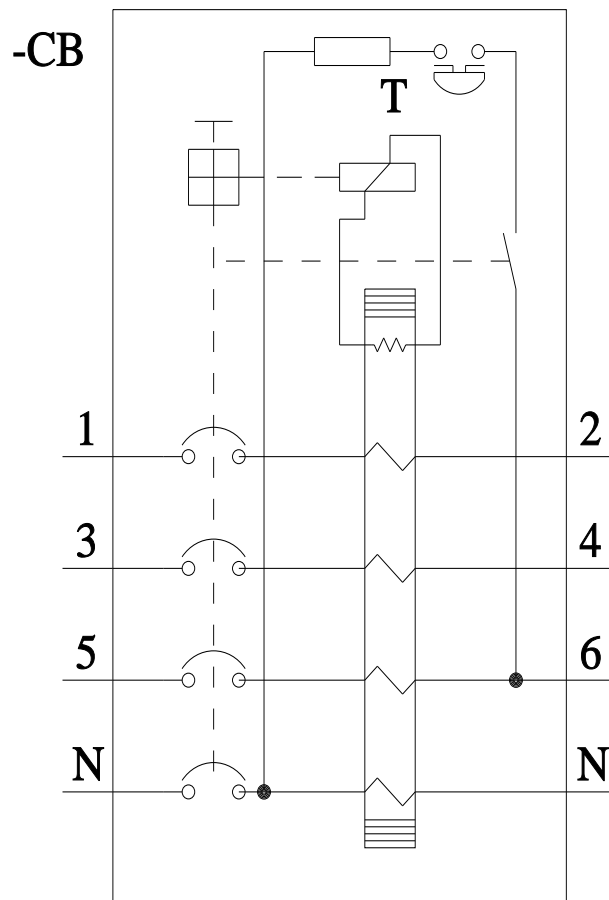
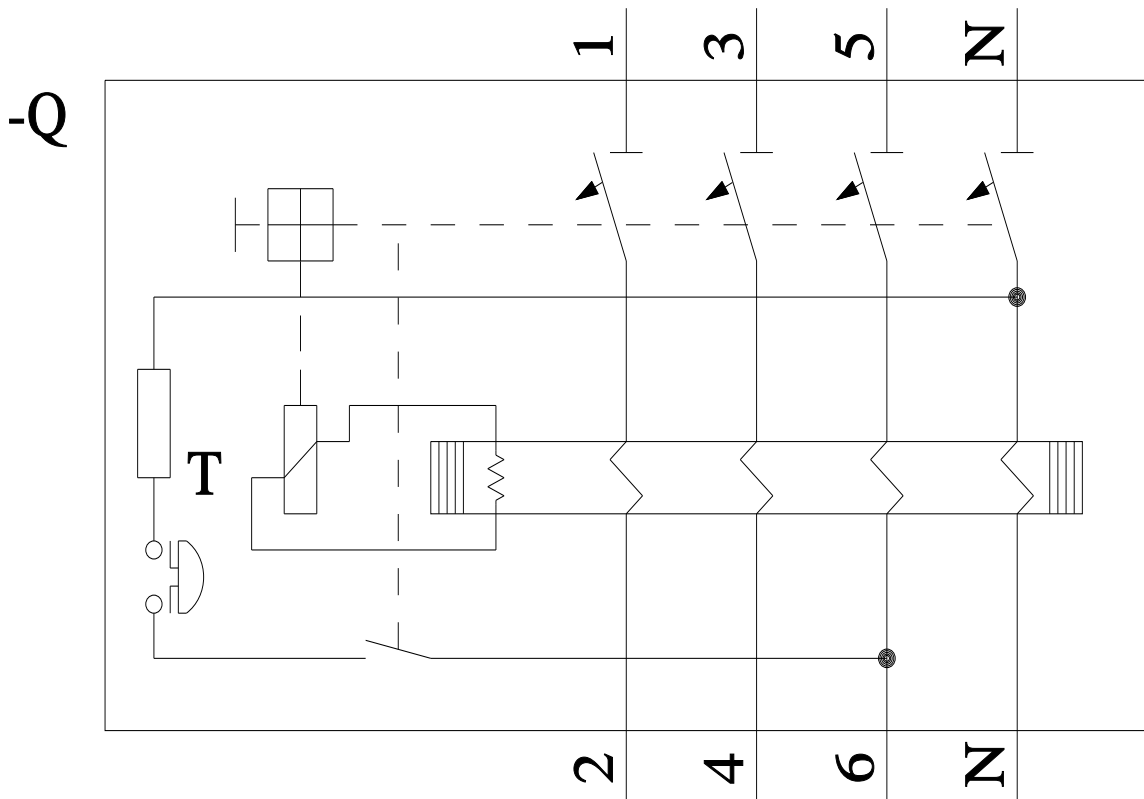
Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)





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