SIEMENS

Data sheet 5SV3742-4



residual current operated circuit breaker, 4-pole, type B, short-time-delayed, In: 25 A, 500 mA, Un AC: 400 V SIGRES: harsh ambient conditions, extended test interval

Model	
product brand name	SENTRON
product designation	Residual current operated circuit breaker
design of the product	Short-time delayed
product type designation	5SV3
product version	SIGRES
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	Yes
degree of pollution	2
insulation voltage (Ui) rated value	2 000 V
tripping fault current rated value	500 mA
let-through current permissible	6 200 A
I2t value permissible	41 000 $A^2 \cdot s$
Supply voltage	
supply voltage for testing equipment minimum	70 V
value range of the supply voltage frequency	50/60 Hz
value range of the operating frequency	50/60 Hz
value range of the supply voltage at AC	70-440 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	1.2 W
● maximum	3.6 W
Appearance	
RAL color number	7 035
RAL color number (similar)	7 035
Product details	
product feature silicon-free	Yes

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product extension installable supplementary devices	Yes
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm²
• maximum	35 mm²
connectable conductor cross-section stranded	
• minimum	0.75 mm²
• maximum	35 mm²
tightening torque with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
position of power supply cord	top or bottom (top for SIGRES function also in switched-off state)
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	453 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	39.9 kg
global warming potential [CO2 eq] during manufacturing	5.06 kg
global warming potential [CO2 eq] during operation	36.7 kg
global warming potential [CO2 eq] after end of life	-1.89 kg

Approvals Certificates

General Product Approval

Miscellaneous

General Product Approval	Test Certificates	other		Railway	Dangerous goods
	Miscellaneous		Confirmation	Special Test Certificate	Transport Information

Environment

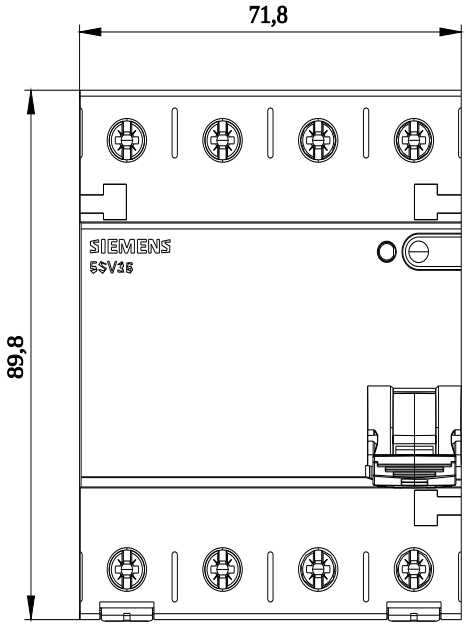
Environmental Confirmations | Environmental Confirmations

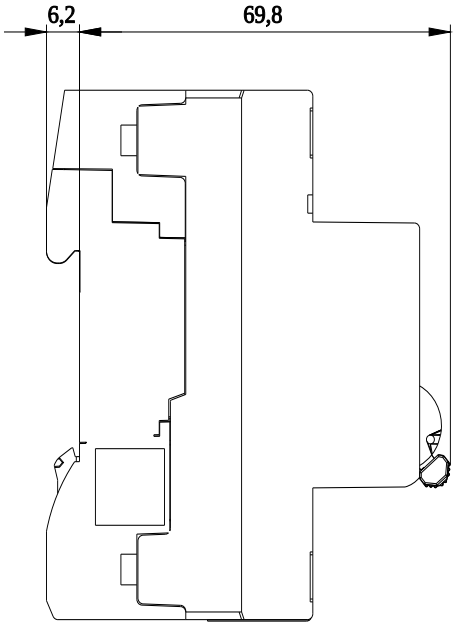
Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875

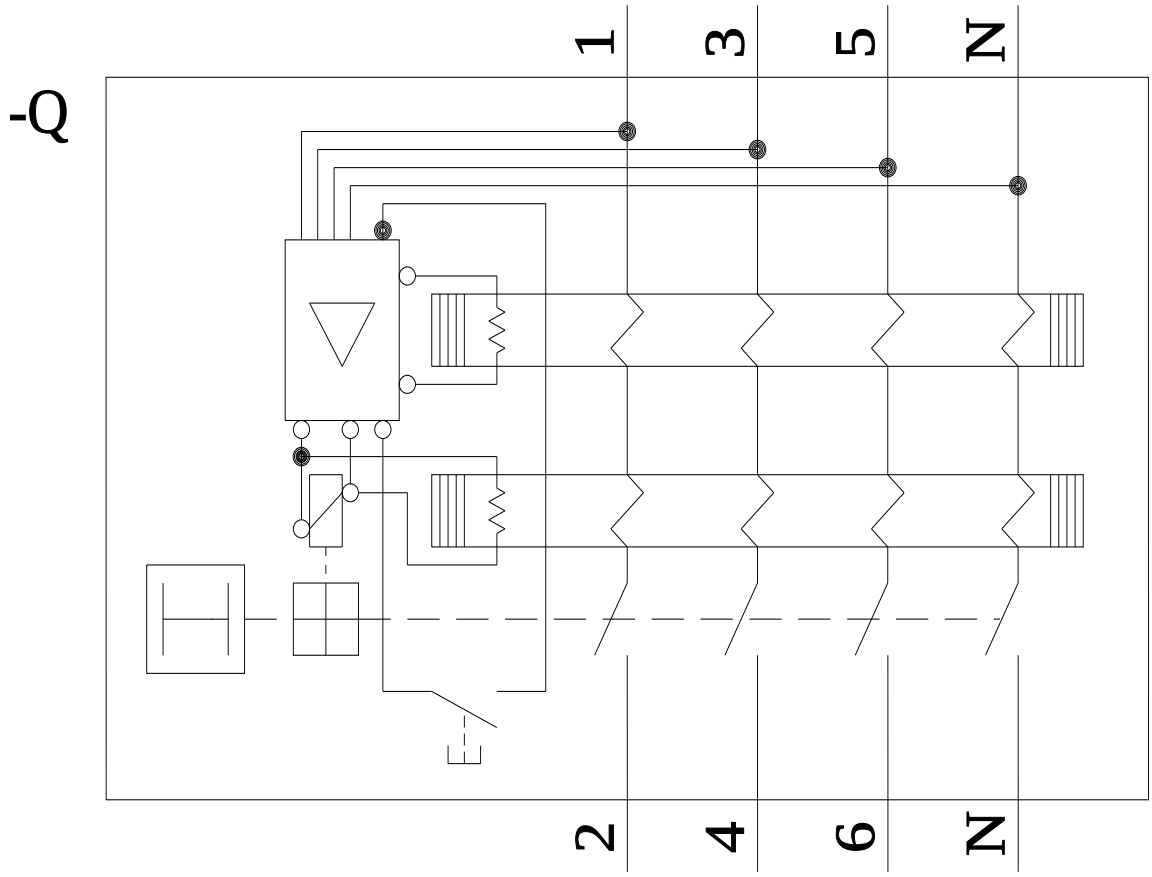
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Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV3742-4
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SV3742-4
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3742-4
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
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