SIEMENS

Data sheet 5SV3647-5



residual current operated circuit breaker, 4-pole, type B, selective, In: 80 A, 300 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	Selective
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	No
degree of pollution	2
insulation voltage (Ui) rated value	2 000 V
tripping fault current rated value	300 mA
let-through current permissible	7 000 A
I2t value permissible	60 000 $A^2 \cdot s$
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	7.5 W
● maximum	22.5 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	454 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

Approvals Certificates

General Product Approval

Confirmation

Miscellaneous

Test Certificates	other		Railway	Dangerous goods	Environment
Miscellaneous	产品合格 QC PASS	Confirmation	Special Test Certific-ate	Transport Information	Siemens EcoTech

Environment

Environmental Con-firmations

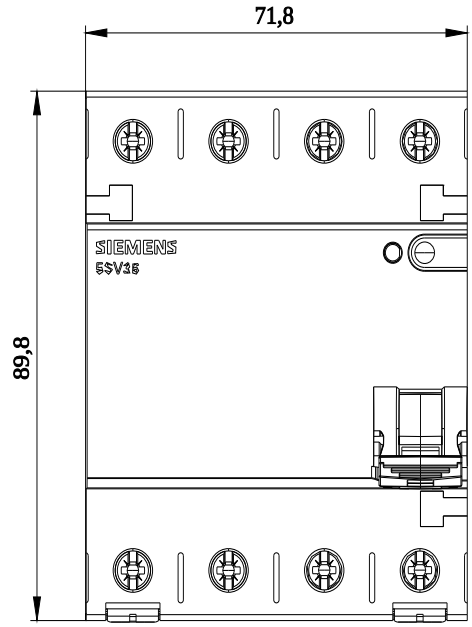
Environmental Con-firmations

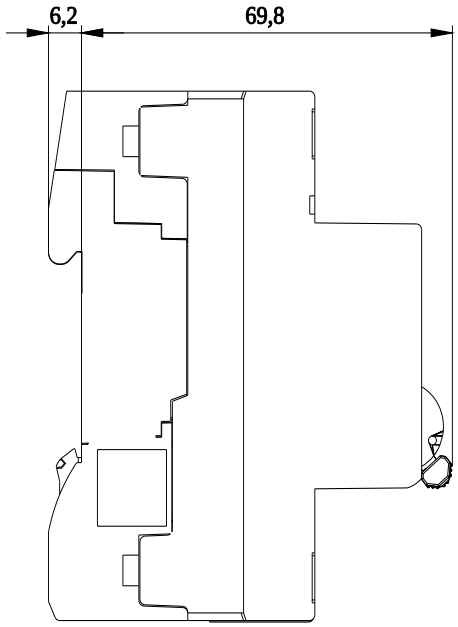
Further information

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=5SV3647-5
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SV3647-5

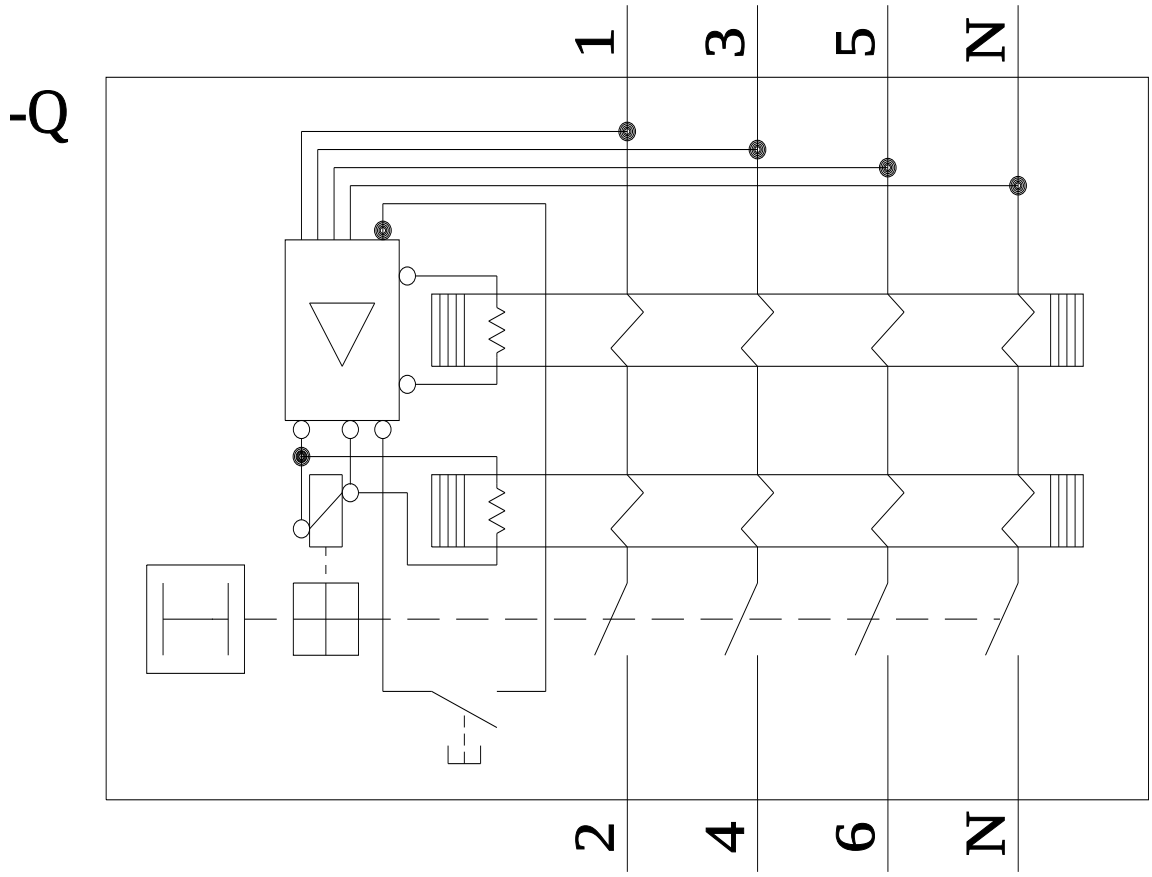
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CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications





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