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Data sheet 5SV5646-6

Siemens EcoTech



Figure similar

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	5SV5
General technical data	
number of poles	4
size of installation devices according to DIN 43880	1
mechanical service life (operating cycles) typical	4 000
short-circuit current of series fuse maximum permissible	80 A
short-circuit current rating	6 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	5 700 A
I2t value permissible	58 000 A²·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	4.1 W
• maximum	12.3 W
Appearance	
RAL color number	7 035

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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	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
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 (REG)
mounting position	any
Net Weight	314.5 g
Environmental conditions	
ambient temperature during operation	
• minimum	-5 °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

Environment			General Product Approval	
Environmental Con-firmations	Siemens EcoTech	EPD	Environmental Con-firmations	Confirmation

General Product Ap-proval	other	Dangerous goods
CE EG-Konf.	产品合格 QC PASS	Confirmation 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
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV5646-6
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SV5646-6
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV5646-6
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications

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https://www.siemens.com/specifications

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https://curves.simaris.siemens.com/curves/5SV5646-6

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