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Data sheet 5SU9346-1CN50

RCBO, Icn: 6 kA, 4P, Type AC, 30 mA, C-Char, In: 50 A, Un AC: 230 V

Model	
product brand name	SENTRON
product designation	RCD-operated circuit breaker
design of the product	Instantaneous
General technical data	
number of poles	4
number of poles with protection	4
design of pole	4P
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) rated value	440 V
surge voltage resistance rated value	4 000 V
surge current resistance at (8/20) µs	1 kA
tripping fault current rated value	30 mA
• operational current	
— at 30 °C rated value	50 A
— at 40 °C rated value	46.5 A
— at 45 °C rated value	44.5 A
— at 50 °C rated value	43.5 A
— at 55 °C rated value	42.5 A
• operational current at AC rated value	50 A
residual current type	AC
Supply voltage	
supply voltage	
• at AC rated value	400 V
• for testing equipment minimum	125 V
operating frequency	50/60 Hz
supply voltage frequency rated value	50 Hz
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	6 kA
• according to IEC 60947-2 rated value	6 kA

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short-circuit current breaking capacity (Icn) according to EN 61009-1 rated value	6 kA
rated residual switching capacity (IΔm) according to IEC 61009-1	3 kA
energy limitation class	3
Dissipation	
power loss [W]	
● for rated value of the current at AC in hot operating state per pole	0.75 W
● maximum	2.3 W
Product details	
product feature touch protection	Yes
product component neutral conductor switching	Yes
product feature halogen-free	Yes
product feature silicon-free	Yes
Product function	
product function	voltage dependent RCD function
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
connectable conductor cross-section finely stranded with core end processing	
● minimum	0.75 mm²
● maximum	25 mm²
tightening torque with screw-type terminals	
● minimum	2.5 N·m
● maximum	3 N·m
position of power supply cord	Either top or bottom
Mechanical Design	
height	90 mm
width	126 mm
depth	77 mm
installation depth	70 mm
number of modular width units	7
mounting position	any
Net Weight	500 g
Environmental conditions	
influence of the surrounding temperature	Max. 95% humidity
ambient temperature during operation	
● minimum	-25 °C
● maximum	45 °C
ambient temperature during storage	
● minimum	-40 °C
● maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28

Approvals Certificates

Environment		General Product Approval		other
Environmental Confirmations	Environmental Confirmations	EAC	Confirmation	Confirmation

other

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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=5SU9346-1CN50
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SU9346-1CN50
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU9346-1CN50
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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