SIEMENS

Data sheet 5SM2647-8



RC unit for 5SP4, 4-pole, type A, selective, In: 100 A, 300 mA, Un AC: 400 V

Model	
product brand name	SENTRON
product designation	RCD-unit
design of the product	Selective
product type designation	5SM2
product variations	for 5SP4
General technical data	
number of poles	4
design of pole	4 poles
size of installation devices according to DIN 43880	1
touch protection against electrical shock according to EN 50274	Finger and back-of-hand safe
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) rated value	460 V
surge voltage resistance rated value	4 000 V
supply voltage	
● at AC rated value	400 V
● for testing equipment minimum	195 V
value range of the supply voltage frequency	50 Hz
value range of the operating frequency	50/60 Hz
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
protection function false tripping	Yes
Dissipation	
power loss [W]	
● for rated value of the current at AC in hot operating state per pole	5 W
● maximum	15 W
tripping fault current rated value	300 mA
operational current	
● at 40 °C rated value	93 A
● at 45 °C rated value	93 A
● at 50 °C rated value	90 A
● at 55 °C rated value	87 A
● at 60 °C rated value	85 A
● at 65 °C rated value	83 A
● at 70 °C rated value	80 A

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● at AC rated value	100 A
residual current type	A
surge current resistance rated value	5 kA
Product details	
product feature	
● OFF-delay time adjustable	No
● rated fault current adjustable	No
● sealable	No
Connections	
connectable conductor cross-section solid	
● minimum	6 mm²
● maximum	50 mm²
connectable conductor cross-section stranded	
● minimum	6 mm²
● maximum	50 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	124 mm
depth	70 mm
installation depth	70 mm
number of modular width units	5
fastening method	REG
mounting position	any
net weight	778 g
Environmental conditions	
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
Certificates	
reference code according to IEC 81346-2	F

General Product Approval			Declaration of Conformity		
Confirmation		Miscellaneous			

other		Dangerous Good	Environment
Confirmation	Miscellaneous	Transport Information	Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)

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http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SM2647-8

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SM2647-8

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM2647-8

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications

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last modified: 8/13/2023

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