SIEMENS

Data sheet 5SM2642-6

RC unit, 4-pole, type A, In: 40 A, 300 mA, Un AC: 400 V, for 5SY



Model	
product brand name	SENTRON
product designation	RCD-unit
design of the product	Instantaneous
product type designation	5SM2
product version	for 5SY
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
tripping fault current rated value	300 mA
● operational current	
— at 40 °C rated value	37.2 A
— at 45 °C rated value	37.2 A
— at 50 °C rated value	36 A
— at 55 °C rated value	34.8 A
— at 60 °C rated value	34 A
— at 65 °C rated value	33.2 A
— at 70 °C rated value	32 A
● operational current at AC rated value	40 A
residual current type	A
surge current resistance rated value	3 kA
supply voltage	
● at AC	400 V
● for testing equipment minimum	195 V
value range of the supply voltage frequency	50 Hz
value range of the operating frequency	50 Hz
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors

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protection function false tripping	Yes
Dissipation	
power loss [W]	
• for rated value of the current at AC in hot operating state per pole	1.9 W
• maximum	5.7 W
Product details	
product feature OFF-delay time adjustable	No
product feature rated fault current adjustable	No
product feature sealable	No
Connections	
connectable conductor cross-section solid	
• minimum	1.5 mm²
• maximum	25 mm²
connectable conductor cross-section stranded	
• minimum	1.5 mm²
• maximum	25 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	54 mm
depth	77 mm
installation depth	70 mm
number of modular width units	3
fastening method	DIN-rail mounting
mounting position	any
Net Weight	309 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

Approvals Certificates

Environment		General Product Approval			
Environmental Confirmations	Environmental Confirmations	CCC	VDE	Miscellaneous	Miscellaneous

General Product Approval				other	
EAC	Confirmation	CE EG-Konf.	UKCA	产品合格 QC PASS	Confirmation

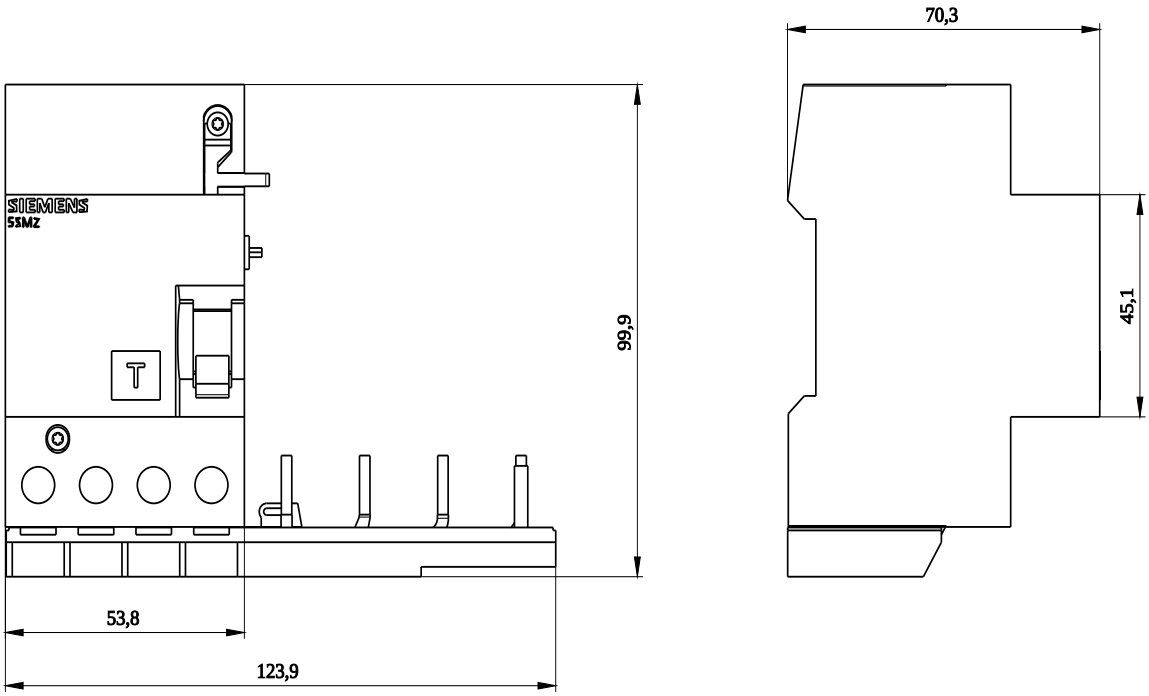
Dangerous goods

Transport Information

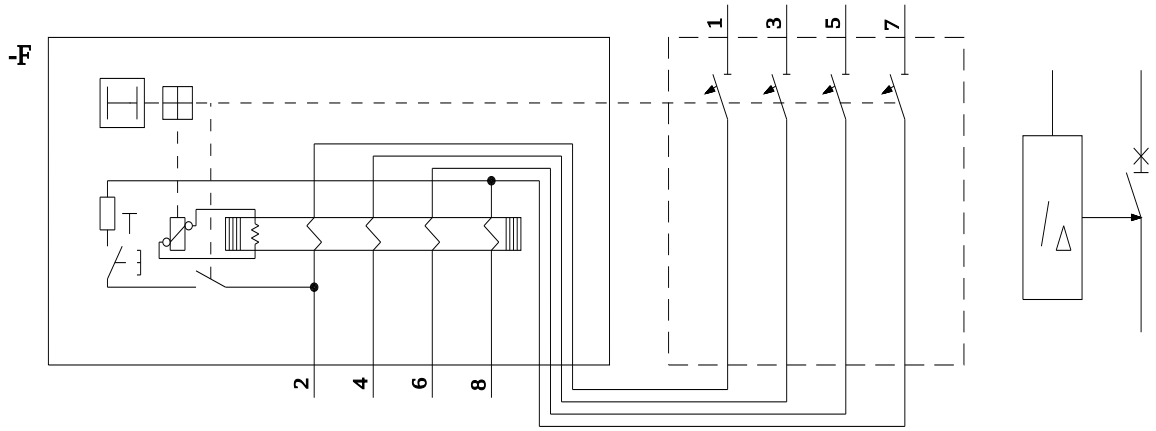
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Further information

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=5SM2642-6
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SM2642-6
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM2642-6
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/5SM2642-6



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