RM85 faston miniature relays



Cadmium - free contacts • Height 15,7 mm • 5000 V / 10 mm reinforced insulation • Coil terminals for PCB, contacts terminals for PCB and flat insert connectors - faston 250 (6,3 x 0,8 mm), faston arrangement: vertical version (V) and horizontal version (H) • DC coils - sensitive • Ambient temperature up to 105 °C • Applications: for control of operation of heating elements and motors of household equipment and catering industry devices, for control of electromagnetic valves, in many other applications • Compliance with standard PN-EN 60335-1
Recognitions, certifications, directives: RoHS, and the function of the sensitive of t

Contact data

1 NO		
AgSnO ₂		
AC 250 V / 440 V		
10 V		
AC1 20 A / 250 V AC		
C15 3 A / 120 V 1,5 A / 240 V (B300)		
AC3 750 W (single-phase motor)		
DC1 = 20 A / 24 V DC		
C13 0,22 A / 120 V 0,1 A / 250 V (R300)		
10 mA		
30 A		
20 A		
AC1 5 000 VA		
1 W		
$\leq 100 \text{ m}\Omega$ 100 mA. 24 V		
AC1 600 cycles/hour		
72 000 cycles/hour		
DC 548 V		
$DC: \ge 0,1 U_n$		
see Table 1		
DC 0,25 W		
400 V AC		
4 000 V 1,2 / 50 μs		
3		
5 000 V AC type of insulation: reinforced		
1 000 V AC type of clearance: micro-disconnection		
≥ 10 mm		
≥ 10 mm		
8 ms / 3 ms		
> 2 x 10 ⁴ 20 A, 250 V AC, 85 °C		
> 1.5×10^5 10 A, 250 V AC, 105 °C		
see Fig. 1		
> 3 x 10 ⁷		
vertical version (V): 40,5 x 12,7 x 15,7 mm		
horizontal version (H): $44,5 \times 12,7 \times 15,7 \text{ mm}$		
16 g		
e -40+105 °C		
5		
IP 40 PN-EN 60529		
IP 40 PN-EN 60529 RTII PN-EN 116000-3		
IP 40 PN-EN 60529 RTII PN-EN 116000-3 30 g 20 g		
IP 40 PN-EN 60529 RTII PN-EN 116000-3		

The data in bold type pertain to the standard versions of the relays.



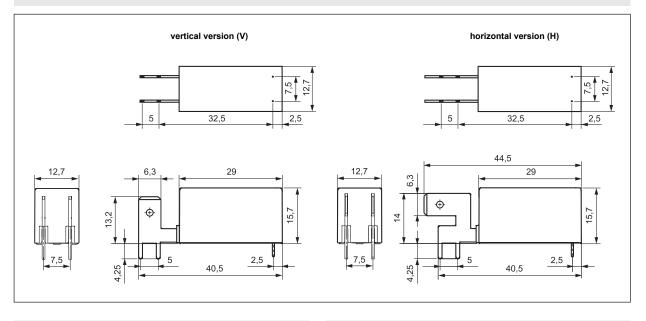
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Coil data - DC voltage version, sensitive version

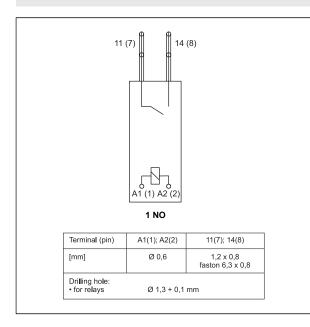
Coil code	Rated voltage V DC	Coil resistance at 20 °C Ω	Acceptable resistance	Coil operating range V DC	
				min. (at 20 °C)	max. (at 20 °C)
S005	5	102	± 10%	3,75	15,0
S006	6	144	± 10%	4,50	18,0
S009	9	330	± 10%	6,75	27,0
S010	10	380	± 10%	7,50	30,0
S012	12	580	± 10%	9,00	36,0
S018	18	1 300	± 10%	13,50	54,0
S024	24	2 300	± 10%	18,00	72,0
S048	48	9 340	± 10%	36,00	144,0

The data in bold type pertain to the standard versions of the relays.

Dimensions



Connection diagram (pin side view)



Electrical life reduction factor at AC inductive load

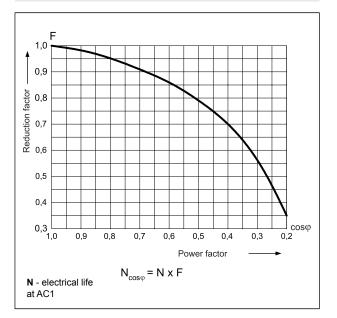
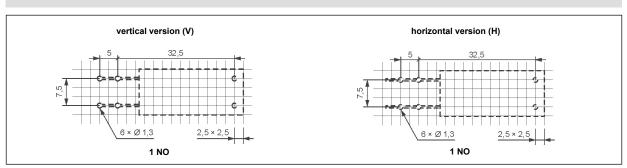


Fig.1

RM85 faston

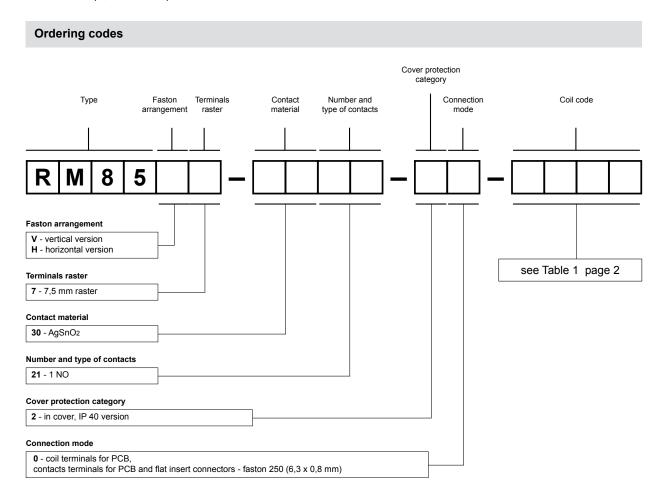
miniature relays

Pinout (solder side view)



Mounting

Relays **RM85 faston** are designed for: • direct PCB mounting • connection of load with flat insert connectors - faston 250 (6,3 x 0,8 mm).



Example of ordering code:

RM85V7-3021-20-S012

relay **RM85 faston**, vertical version, coil terminals for PCB, contacts terminals for PCB and flat insert connectors - faston 250 ($6,3 \times 0,8 \text{ mm}$), 7,5 mm terminals raster, one normally open contact, contact material AgSnO₂, sensitive coil voltage 12 V DC, in cover IP 40

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.