

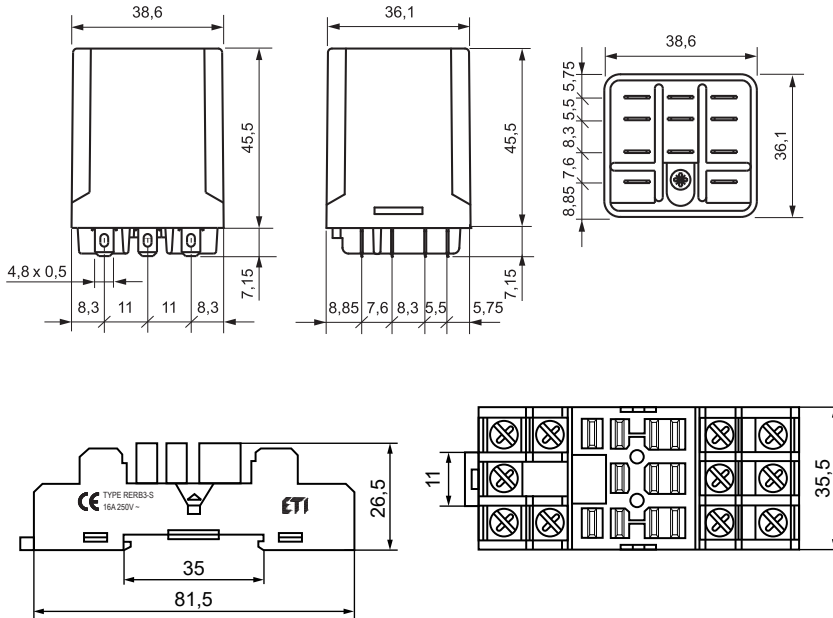
## Electromechanical power relays RERM3

Table 1: Technical data		RERM3
<b>Contact Data</b>		
Number and type of contacts		3 CO
Contact material		AgNi
Rated / max. switching voltage AC		440 V
Min. switching voltage		5V
Rated load (capacity)		16 A / 250 V AC 10 A / 400 V AC
Min. switching current		5 mA
Max. inrush current		40A
Rated current		16A
Max. breaking capacity AC1		4000 VA
Min. breaking capacity		0.3W
Contact resistance		≤ 100 mΩ
Max. operating frequency (cycles/hour)		
• at rated load AC1		1 200
• no load		12 000
<b>Coil data</b>		
Rated voltage		AC: 24V, 240V
Must release voltage		AC: ≥ 0,15 Un
Operating range of supply voltage		see next page
Rated power consumption		2,8 VA (50Hz) / 2,5 VA (60Hz)
<b>Insulation according to EN 60664-1</b>		
Insulation rated voltage		400 V AC
Rated surge voltage		4 000 V 1,2 / 50 μs
Overvoltage category		III
Insulation pollution degree		2
Dielectric strength between coil and contacts (basic insulation)		2500 V AC
Dielectric strength - contact clearance		
- micro disconnection		1500 V AC
- full disconnection with contact gap ≥ 3mm		2500 V AC
Dielectric strength pole-pole (basic insulation)		2500 V AC
Contact - coil distance		
- Clearance	≥ 5 mm 2CO, 2NO	≥ 4 mm 3CO, 3NO
- Creepage	≥ 8 mm 2CO, 2NO	≥ 5 mm 3CO, 3NO
<b>General data</b>		
Operating / release time (typical values)		20 ms / 15 ms
Electrical life		
- Resistive AC1		>10 <sup>5</sup> 16 A, 250 V AC / 10 A, 400 V AC
- cos φ		See next page
Mechanical life (cycles)		>10 <sup>7</sup>
Dimensions		36,1 x 38,6 x 45,5 mm
Ambient temperature		
- storage		- 40...+85°C
- operating		- 40...+55°C
Cover protection category		IP 00
Environmental protection		RTI
Shock resistance (NO/NC)		10 g
Vibration resistance		5g 10...150 Hz
Solder bath temperature		max. 270°C
Soldering time		max. 5s

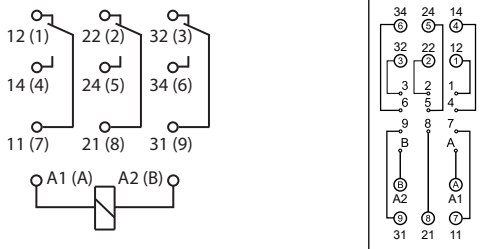
Table 2: Coil data

Coil code	Rated voltage V AC	Coil resistance at 20 °C Ω	Acceptable resistance	Coil operating range V AC	
				min. (at 20 °C)	max. (at 55 °C)
024AC	24	75	± 15%	19,2	26,4
230AC	230	7080	± 15%	184,0	253,0

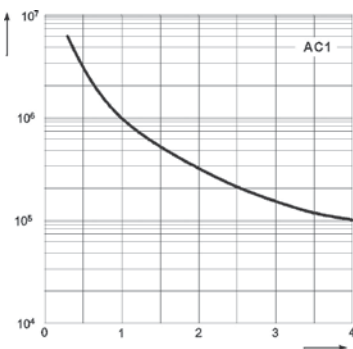
Dimensions



Connection diagram (pin side view)



Electrical life at AC resistive load.  
Switching frequency: 1 200 cycles/hour



Electrical life reduction factor at AC inductive load

