

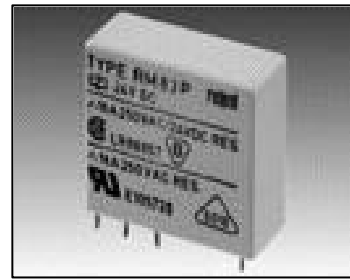
RM83 MINIATURE POWER RELAY

COIL DATA

Rated voltage	5...110 V DC
Must release voltage	> 0,1 U _n
Operating range of supply voltage	see table below
Rated power consumption	0,6 W for 5...60 V DC (standard version)

Coil data - DC version

Coil code	Rated voltage V DC	Coil resistance +/- 10% at 20°C, Ohm	Operating range of supply voltage at 20°C, V DC	
			min.	max.
1005	5	49	3.5	8.9
1006	6	68	4.2	10.6
1009	9	110	6.3	15.9
1012	12	260	8.4	21.2
1018	18	550	12.6	31.8
1024	24	1100	16.8	42.5
1036	36	2100	25.2	63.7
1048	48	4400	33.6	85
1060	60	7000	42	106.2
1110	110	13000	77	140
S110	110	20500	77	188



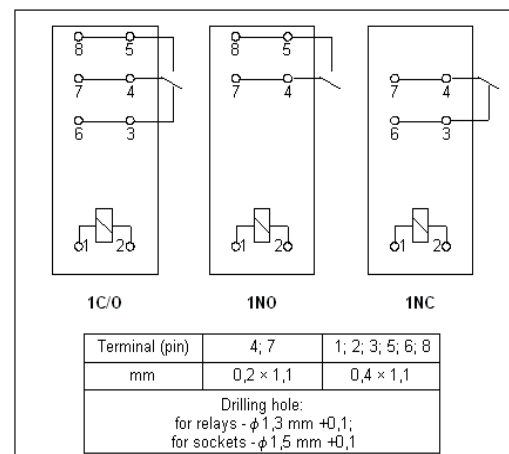
CONTACTS DATA

Contact number & arrangement	1C/O, 1NO, 1NC
Contact material	AgCdO // AgCdO/Au 0,2µm // AgSnO ₂
Voltage	
Max. switching voltage AC/DC	400 V / 250 V
Min. switching voltage AC/DC	10 V
Current	
Rated load AC1	16 A / 250 V AC
DC1	16 A / 24 V DC
Min. switching current	5 mA (AgCdO, AgCdO/Au 0,2µm) 10 mA (AgSnO ₂)
Max. inrush current	120 A for NO AgSnO ₂
Rated current	16 A
Max. breaking capacity	4 000 VA
Min. breaking capacity	0,5 W (AgCdO, AgCdO/Au 0,2µm) 1 W (AgSnO ₂)
Resistance	< 100 mOhm at 1 A, 24 V

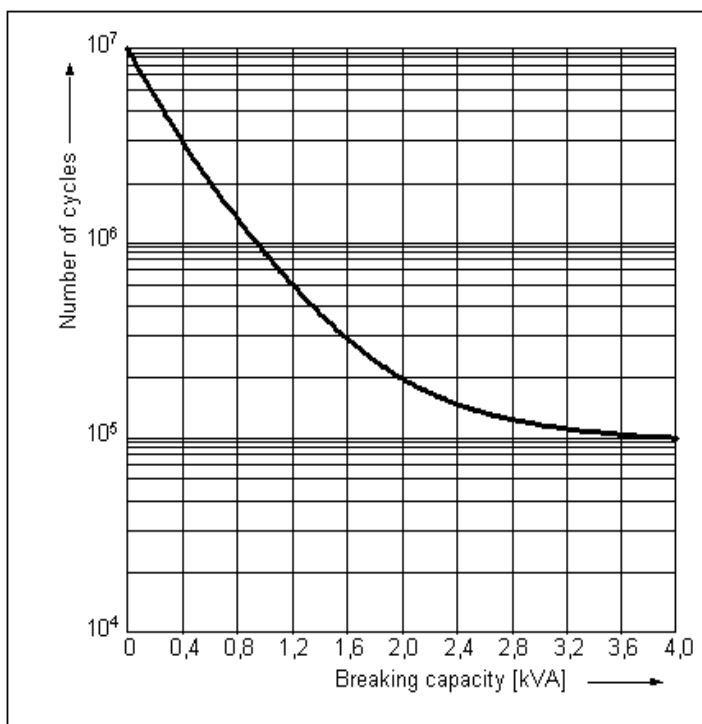
Max. operating frequency

at rated load	600 cycles/hour
no load	72 000 cycles/hour

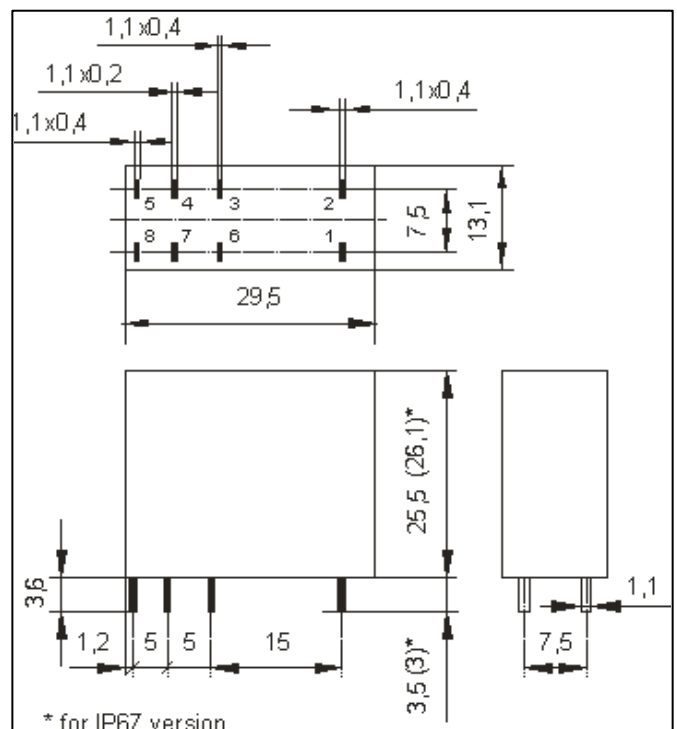
CONNECTIONS DIAGRAM



ELECTRICAL LIFE AT AC RESISTIVE LOAD



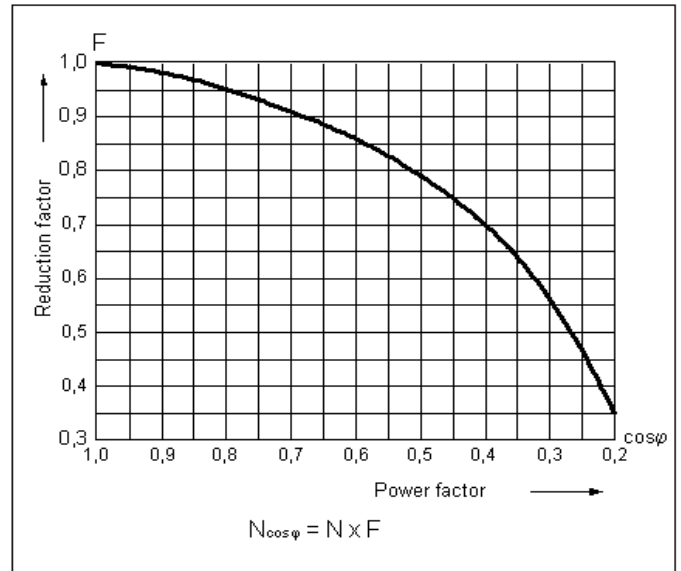
DIMENSIONS, MM



RELPOL ELECTROMAGNETIC RELAY RM83
ELECTRICAL LIFE REDUCTION
FACTOR AT AC INDUCTIVE LOAD

GENERAL DATA

Operating time (typical value)	7 ms
Release time (typical value)	3 ms
Electrical life	
resistive	>10 ⁵ at 16 A, 250 V AC
lamp load	>10 ⁵ at 1 000 W, 230 V AC (for NO AgSnO ₂)
lamp load	>3 x 10 ⁴ at 3 000 W, 230 V AC (for NO AgSnO ₂)
halogen lamp load	>10 ⁴ at 2 500 W, 230 V AC (for NO AgSnO ₂)
cos φ	see Figure below
L/R = 40 ms	>10 ⁵ at 0,12 A, 220 V DC
Mechanical life (cycles)	>3 x 10 ⁷
Dimensions (L x W x H)	29 x 13,1 x 25,5 (26,1 for IP67 version) mm
Weight	18 g
Ambient temperature	
storing	-40...+85 °C
operating	-40...+70 °C
Cover protection category	IP40 or IP67
Shock resistance	20 g
Vibration resistance	10 g for 10...150 Hz
Solder bath temperature	max. 270°C
Soldering time	max. 5s



INSULATION DATA

Insulation category	C250
Voltage	
Insulation rated voltage	400 V AC
Dielectric strength	
coil-contact	4 000 V AC
contact-contact	1 000 V AC
Contact-coil distance	
clearance	> 8 mm
creepage	> 8 mm

MOUNTING:

- direct PCB mounting (PCB terminals socket GW80 (clip RM81 0001) and PW80 (clip RM81 0001))
- DIN rail mount socket with screw terminals GZ80 (clip GZ80 1001 or MS25)+ Indicator modules for GZ80 sockets

HOW TO ORDER RM83 RELAY: ORDERING CODES

