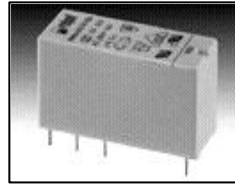


RM85 MINIATURE POWER RELAY



COIL DATA

Rated voltage 3...110 V DC, 24...240 V AC
 Must release voltage > 0,1 U_h
 Operating range of supply voltage see Table and information below
 Rated power consumption 0,4...0,48 W

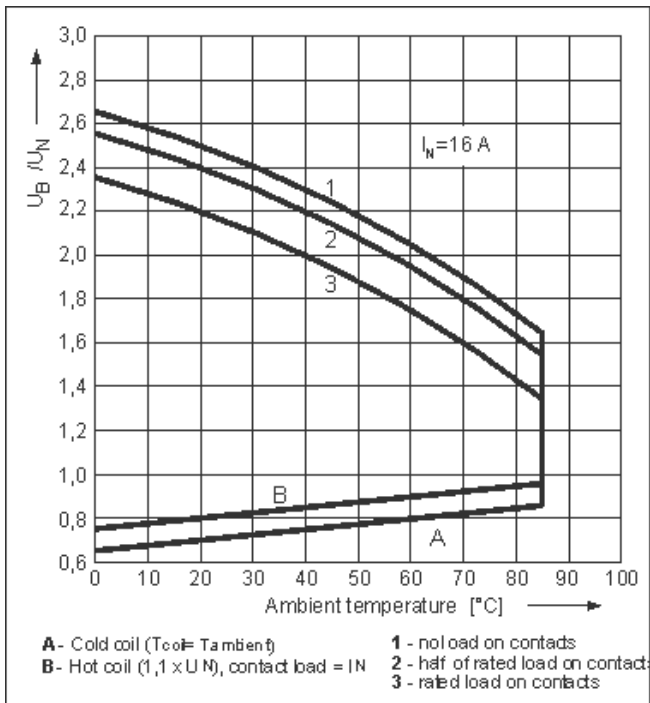
Coil data - DC version

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.
1003	3	22	2.1	7.6
1005	5	60	3.5	12.7
1006	6	90	4.2	15.3
1009	9	200	6.3	22.9
1012	12	360	8.4	30.6
1018	18	710	12.6	45.9
1024	24	1440	16.8	61.2
1036	36	3140	25.2	91.8
1048	48	5700	33.6	122.4
1060	60	7500	42	153
1110	110	25200	77	280

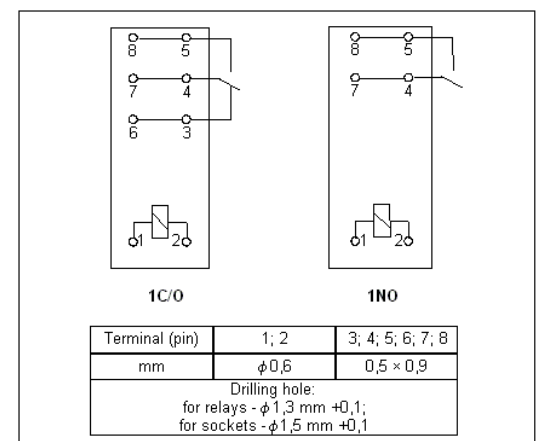
Coil data - AC version

Coil code	Rated voltage V AC	Coil resistance +/- 10% at 20°C, Ohm	Operating range of supply voltage at 20°C, V AC	
			min.	max.
5024	24	400	19,2	28,8
5048	48	1550	38,4	57,6
5060	60	2600	48,0	72,0
5110	110	8900	88,0	132,0
5115	115	9600	92,0	138,0
5120	120	10200	96,0	144,0
5220	220	35500	176,0	264,0
5230	230	38500	184,0	276,0
5240	240	42500 (15%)	192,0	288,0

COIL OPERATING RANGE



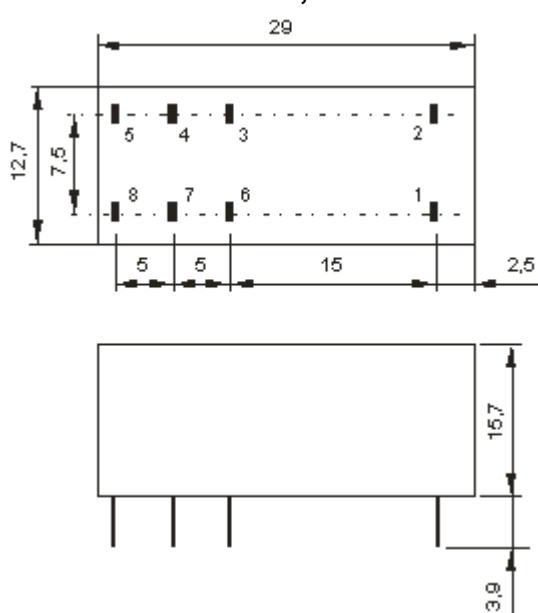
CONNECTIONS DIAGRAM



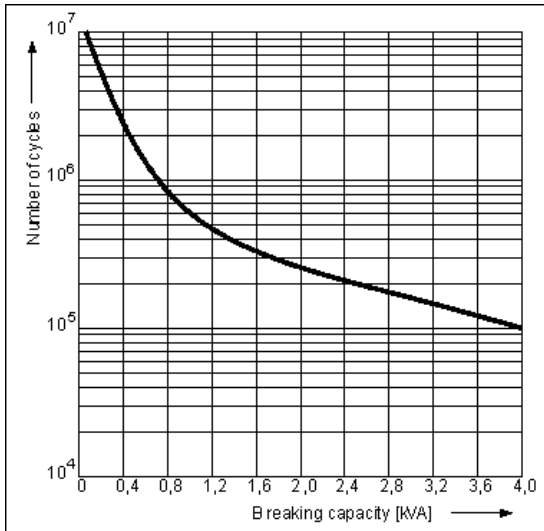
CONTACTS DATA

Contact number & arrangement 1C/O, 1NO
 Contact material AgNi // AgSnO₂
Voltage
 Max. switching voltage AC/DC 400 V / 300 V
 Min. switching voltage AC/DC 5 V (AgNi)
 10 V (AgSnO₂)
Current
 Rated load AC1 16 A / 250 V AC
 DC1 16 A / 24 V DC
 Min. switching current 5 mA
 Max. inrush current 120 A for NO AgSnO₂
 Rated current 16 A
 Max. breaking capacity 4 000 VA
 Min. breaking capacity 0,3 W (AgNi)
 0,5 W (AgSnO₂)
 Resistance < 100 mOhm at 1 A, 24 V
Max. operating frequency
 at rated load 600 cycles/hour
 no load 72 000 cycles/hour

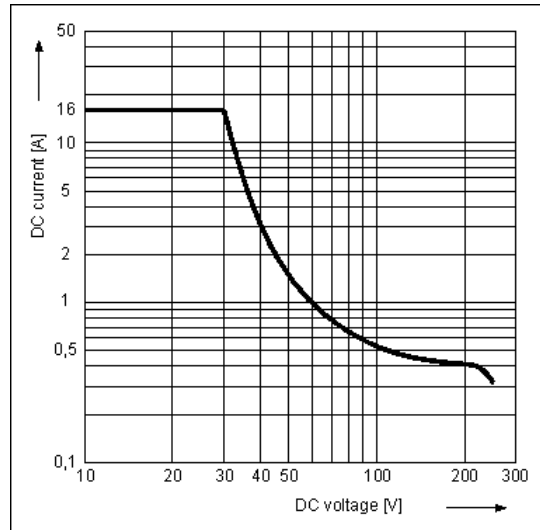
DIMENSIONS, MM



ELECTRICAL LIFE AT AC RESISTIVE LOAD



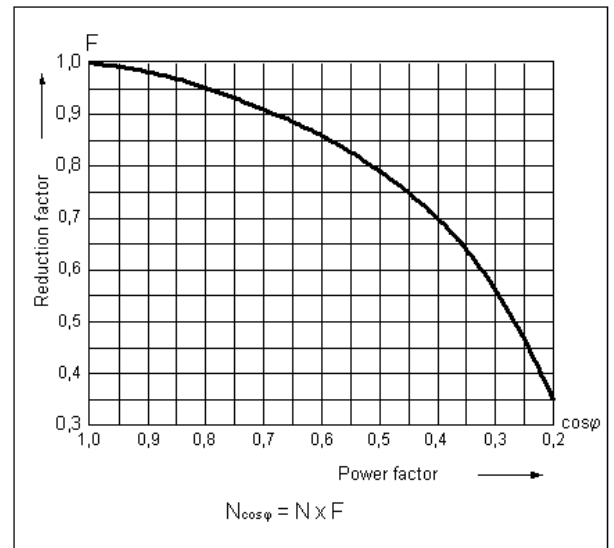
MAX. DC RESISTIVE LOAD BREAKING CAPACITY



GENERAL DATA

Operating time (typical value)	7 ms
Release time (typical value)	3 ms
Electrical life	
resistive	>0,7 × 10 ⁵ at 16 A, 250 V AC
cos φ	see power factor diagram
L/R = 40 ms	>10 ⁵ at 0,12 A, 220 V DC
Mechanical life (cycles)	>3 × 10 ⁷
Dimensions (L x W x H)	29 x 12,7 x 15,7 mm
Weight	14 g
Ambient temperature	
storing	-40...+85 °C
operating	-40...+85 °C
Cover protection category	IP40 or IP67
Vibration resistance (NC/NO)	10 g / 5 g for 10...150 Hz
Solder bath temperature	max. 270 °C
Soldering time	max. 5 s

ELECTRICAL LIFE REDUCTION FACTOR AT AC INDUCTIVE LOAD



INSULATION DATA

Insulation category	C250
Voltage	
Insulation rated voltage	400 V AC
Dielectric strength	
coil-contact	5 000 V AC
contact-contact	1 000 V AC
Contact-coil distance	
clearance	> 10 mm
creepage	> 10 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 RM85 RELAY: ORDERING CODES

