Coupling relays - Miniature power relay

- Miniature power relay
- 4 change-over contacts
- Hand operation
- Position indicator
- Plug-in housing
- Approvals: UL, VDE

Technical data

1. Mechanical design

Self-extinguishing plastic housing, IP rating IP40
Mounting position: any

2. Coil

Duration of operation: 100%
AC-Type:

Type	Rated voltage AC	Coil resistance Ω (±10%)
RM 512L	12V AC	39.5
RM 524 RM 524L RM 524.02L	24V AC	158
RM 548L	48V AC	640
RM 615L RM 615.02L	115V AC	3450
RM 730 RM 730L RM 730.02L	230V AC	16100

L LED
.02 gold-plated contacts

Frequency: 50/60Hz
Rated consumption AC (50Hz): 1.6VA
Must release voltage: ≥0.2 x U_N
Tolerance: 0.8 to 1.1 x U_N

DC-Type:

Type	Rated voltage DC	Coil resistance Ω (±10%)
RM 012L RM 012.02LD	12V	160
RM 024 RM 024L RM 024LD RM 024.02LD	24V	640
RM 048L RM 048.02LD	48V	2600
RM 060L RM 060.02LD	60V	4000
RM 110L RM 110.02LD	110V	13600
RM 220L RM 220.02LD	220V	54000

L LED
LD LED and recovery diode
.02 gold-plated contacts

Rated consumption: 0.9W
Must release voltage: ≥0.1 x U_N
Tolerance: 0.8 to 1.1 x U_N

3. Contacts

Switching voltage:		max. 250V (AC/DC)
		min. 5V (AC/DC)
Rated load:	AC1:	6A/250V AC
	DC1:	6A/24V DC
Switching voltage:		max. 6A
		min. 5mA
		min. 2mA (gold plated contacts)
Rated incrush current:		12A
Rated load:	AC1:	max. 1500VA
	DC1:	max. 144W
		min. 0.3W
		min. 0.1W (gold plated contacts)
Resistance:		≤100mΩ at 100mA / 24V
Switching frequency:		max. 20/min at rated load
		max. 300/min without load
Contact material:		AgNi oder AgNi/AU 5µm

4. General data

Response time		
	AC:	10ms
	DC:	13ms
Release time		
	AC:	8ms
	DC:	3ms
Mechanical life:		20 x 10^6 operations
Electrical life:		10 x 10^4 operations at 5A / 250V
Vibration resistance:		5g
Shock resistance:		10g

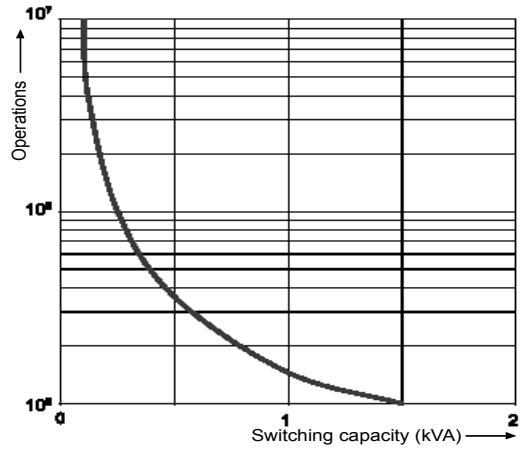
5. Insulation

Coil - contact (50Hz):		2500VAC
Contact - contact:		1500V AC
Pole - pole:		2000V AC
Insulation category:		B250 (according to DINVDE 110)
Surge voltage:	-	

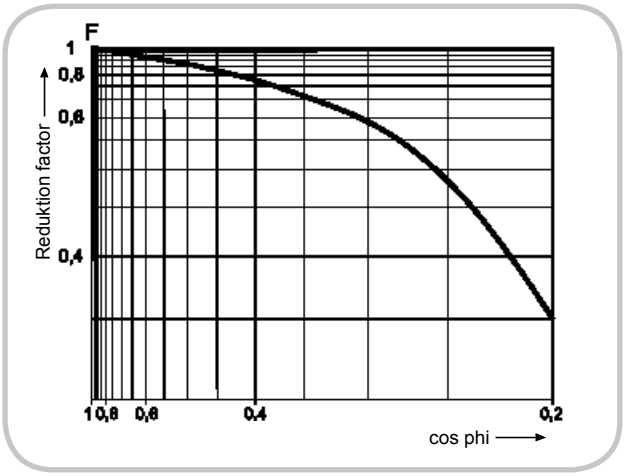
6. Ambient conditions

Ambient temperature:		
	AC:	-40 to +55°C
	DC:	-40 to +70°C
		(according to IEC 68-1)
Storage temperature:		-40 to +85°C
Pollution degree:		2 (according to IEC 664-1)

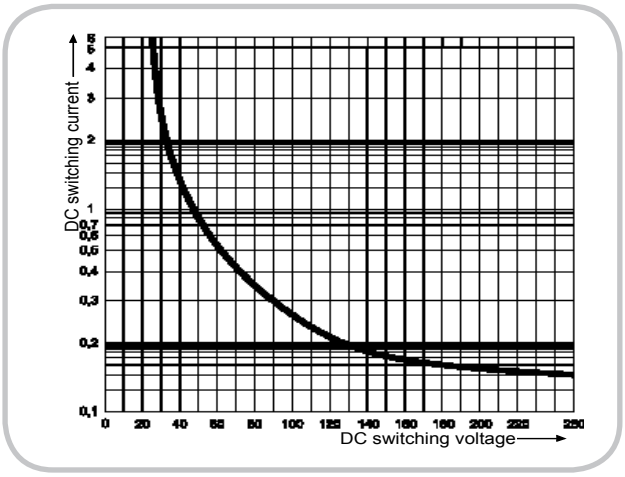
Reduction factors



Reduction of electrical life depending on load

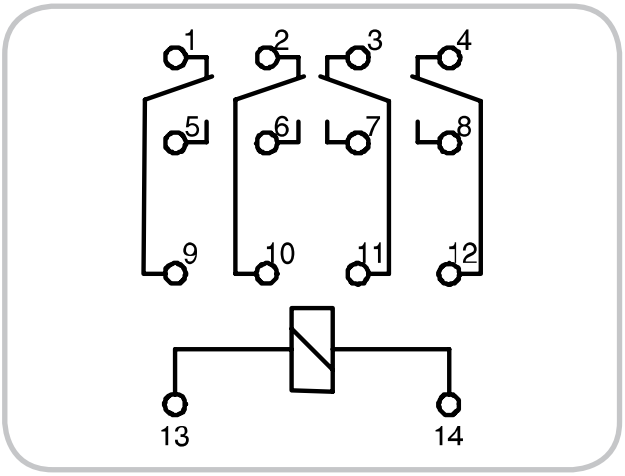


Reduction of electrical life depending on power factor value



Reduction of switching capacity depending on switching voltage

Connections



Dimensions