

Power Relay RM 8

- 2 pole 25 A, 2 form C (2 CO) contacts
- DC or AC coil
- Mechanical indicator
- **■** Push-to-test button
- **■** Chassis or DIN rail mount

Typical applications Cleaning equipment, heating and cooling equipment.

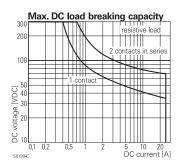
Approvals
VDE Cert. No. 40003144, UL E214025,
Technical data of approved types on request.

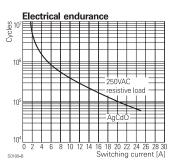
Contact Data	
Contact arrangement	2 form C (CO)
Rated voltage	400VAC
Max. switching voltage	400VAC
Rated current	25A
Limiting making current, 20ms max.	60A
Switching power	6000VA
Contact material	AgCdO, AgNi90/10
Min. recommended contact load	24VDC/100mA
Frequency of operation,	
with/without load, DC coil	960/6000h ⁻¹
Operate/release time max., DC coil	15/10ms
Bounce time max., form A/form B, DC coil	4/6ms

Contact ratings

Contac	ratings		
Туре	Contact	Load	Cycles
IEC 618	810		
RM8	C (CO)	25 A, 250 VAC, cosφ=1 35°C	10x10 ³
RM82	C (CO)	25 A, 250 VAC, cosφ=1 DC-coil, 65°C	10x10 ³
RM82	C (CO)	25 A, 250 VAC, cosφ=1 AC-coil, 40°C	10x10 ³
UL 508	}		
RM80	A/B (NO/NC)	25 A, 240 VAC, 1 phase per pole,	
		general purpose 40°C	6x10 ³
RM8	A/B (NO/NC)	25 A, 415 VAC, resistive, 45°C	10x10 ³
RM82	A/B (NO/NC)	16 A, 415 VAC, resistive, 70°C	30x10 ³
RM82	A/B (NO/NC)	240 VAC, 1phase, 2HP, 50°C	6x10 ³

Mechanical endurance	10x10 ⁶ o	perations







Coil Data		
Coil voltage range	6 to 220VDC	
	6 to 400VAC	
Operative range, IEC 61810	2	
Coil insulation system according UL	class 130 (B)	

Coil versions, DC coil									
		Coil code)	Rated	Coil	Rated coil			
STD	LED	PD ³⁾	LED+	voltage	resistance	power			
	bipolar		PD ³⁾	VDC	$\Omega \pm 10\%^{1)2)}$	W			
006	L06	0A6	LA6	6	32	1.1			
012	L12	0B2	LB2	12	110	1.3			
024	L24	0C4	LC4	24	475	1.2			
048	L48	0E8	LE8	48	2000	1.2			
060	L60	0G0	LG0	60	2850	1.3			
110	M10	1B0	MB0	110	100001)	1.2			
221	N21	2C1	NC1	220	400002)	1.2			
Opera	te voltage	, DC coil		75% c	of rated coil volt	age			
D 1									

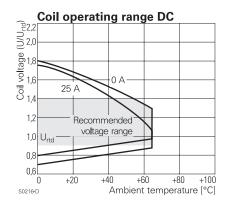
Release voltage, DC coil

1) Coil resistance ±12%, 2) Coil resistance ±15%.

3) Protection diode PD; standard polarity: +A1 / -A2.

All figures are given for coil without pre-energization, at ambient temperature +23°C.

10% of rated coil voltage





Power Relay RM 8 (Continued)

Coil Data (continued)											
Coil ve	Coil versions, AC coil										
Coil co	ode	Rated	Operate	Release	Coil	Rated coil					
STD	LED	voltage	voltage	voltage	resistance	power					
			50/60Hz	50/60Hz		50/60Hz					
		VAC	VAC	VAC	$\Omega \pm 10\%^{1)2)}$	VA					
506	R06	6	4.8/5.1	1.8	4.7	2.86/2.36					
512	R12	12	9.6/10.2	3.6	19.5	2.71/2.27					
524	524 R24 24		19.2/20.4	7.2	80	2.62/2.00					
548	R48	48	38.4/40.8	14.4	320	2.60/2.17					
560	R60	60	48.0/51.0	18.0	500	2.62/2.20					
615	S15	115	92.0/97.8	34.5	1850	2.65/2.22					
730	T30	230	184.0/195.5	69.0	7500	2.69/ 2.26					
900	V00	400	320.0/340.0	120.0	235002)	2.61/2.20					

²⁾ Coil resistance ±15%.

Insulation Data	
Initial dielectric strength	
between open contacts	1500Vrms
between contact and coil	2500Vrms
between adjacent contacts	4000Vrms
Initial surge withstand voltage	
between contact and coil	5000V(1.2/50µs)
between adjacent contacts	6000V(1.2/50µs)
Clearance/creepage	
between contact and coil	≥4.0/14.9mm
between adjacent contacts	≥15.3/15.3mm
Material group of insulation parts	IIIa

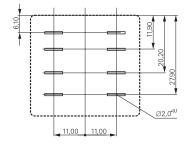
Other Data

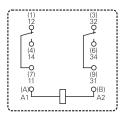
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature		
for mounting/handling	-20 to +40°C	
in operation		
DC coil	-40 to +65°C	
AC coil	-40 to +40°C	
16 A contact load	-40 to +70°C	
Category of environmental protection		
IEC 61810	RTI - dust protected	
Vibration resistance (functional)	•	
form A (NO)/form B (NC)	10/5g, 30 to 150Hz	
Terminal type	quick-connect	
Cover retention, pull/push force	100/100N	
Weight	81g	
Packaging unit	10/25 pcs.	

Terminal assignment

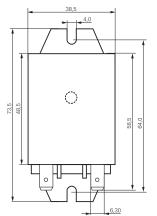
Bottom view on pins

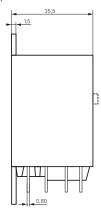


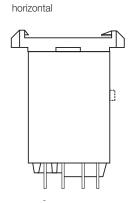


Dimensions

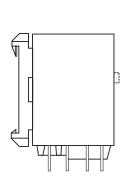
Cover with mounting brackets, 6.3mm quick connect terminals







Cover with DIN-snap-on attachement



vertical

All figures are given for coil without pre-energization, at ambient temperature +23°C.



Power Relay RM 8 (Continued)

Product	code structure			Typical product code	e RM	8	0	9	024
Туре									
RI\	Power relay RM8								
Contact of	onfiguration								
8	2 form C contacts (2 CO), 25A								
Version							-		
0	AgCdO, without test button	3	AgCdO, with test button						
2	AgNi90/10, without test button	7	AgNi90/10, with test button						
Enclosure	9								
5	cover with mounting brackets, 6.3mm q	uick c	onnect terminals						
8	cover with DIN-snap-on attachment, hor	izonta	I, 6.3mm quick connect terminal	ls					
9	cover with DIN-snap-on attachment, ver	tical, 6	3.3mm quick connect terminals						
Coil									_
Co	il code: please refer to coil versions table								

Product code	Contacts	Cont. material	Version	Enclosure	Coil	Coil	Part number
RM805024	2 form C,	AgCdO	Without	Mounting brackets	DC-coil	24VDC	2-1393844-7
RM825024	2 CO contacts	AgNi	test button	quick c. 6.3 mm			7-1415544-3
RM805524	25 A	AgCdO			AC-coil	24VAC	2-1393147-9
RM805615		AgCdO				115VAC	3-1393147-1
RM805730		AgCdO				230VAC	3-1393147-3
RM825730		AgNi					5-1415544-8
RM808024		AgCdO		DIN-snap-on	DC-coil	24VDC	2-1393844-9
RM808524		AgCdO		horizontal	AC-coil	24VAC	3-1393147-7
RM808730		AgCdO				230VAC	5-1393149-7
RM809024		AgCdO		DIN-snap-on	DC-coil	24VDC	5-1393149-8
RM809615		AgCdO		vertical	AC-coil	115VAC	3-1393147-8
RM809730		AgCdO				230VAC	3-1393147-9
RM835024		AgCdO	With	mounting brackets	DC-coil	24VDC	4-1393147-1
RM835524		AgCdO	test button	quick c. 6.3 mm	AC-coil	24VAC	4-1393147-3
RM835615		AgCdO				115VAC	4-1393147-4
RM835730		AgCdO				230VAC	4-1393147-6
RM838024		AgCdO		DIN-snap-on	DC-coil	24VDC	4-1393147-8
RM838524		AgCdO		horizontal	AC-coil	24VAC	5-1393147-0
RM838730		AgCdO				230VAC	5-1393147-1
RM839024		AgCdO		DIN-snap-on	DC-coil	24VDC	5-1393147-4
RM839524		AgCdO		vertical	AC-coil	24VAC	5-1393147-5
RM839730		AgCdO				230VAC	5-1393147-6