

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.

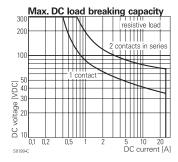
Contact Data

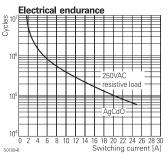
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Contact arrangement	2 form C (CO)
Rated voltage	400VAC
Max. switching voltage	400VAC
Rated current	25A
Limiting making current, 20ms max.	60A
Switching power	6000VA
Contact material	AgCdO, AgNi90/10
Min. recommended contact load	24VDC/100mA
Frequency 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

Contac	t ratings		
Туре	Contact	Load	Cycles
IEC 61	810		
RM8	C (CO)	25 A, 250 VAC, cos φ =1 35°C	10x10 ³
RM82	C (CO)	25 A, 250 VAC, cosφ=1 DC-coil, 65°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	30x103
RM82	A/B (NO/NC)	240 VAC, 1phase, 2HP, 50°C	6x10 ³
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Mechanical endurance

10x10⁶ operations







Coil Data

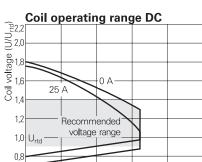
Coil voltage range	6 to 220VDC			
	6 to 400VAC			
Operative range, IEC 61810	2			
Coil insulation system according UL	class 130 (B)			

Coil versions, DC coil Coil code Rated Coil Rated coil PD³⁾ resistance $\Omega \pm 10\%^{1(2)}$ LED+ STD LED voltage power PD³⁾ bipolar VDC W 006 L06 0A6 LA6 6 32 1.1 012 0B2 LB2 12 110 L12 1.3 024 L240C4 LC4 24 475 1.2 1.2 048 L48 0E8 48 LE8 2000 060 L60 0G0 LG0 60 2850 1.3 110 M10 1B0 MB0 110 100001) 1.2 221 N21 2C1 NC1 220 400002) 1.2 Operate voltage, DC coi 75% of rated coil voltage Release voltage, DC coil 10% of rated coil voltage

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.



0.8 0.6 0.2 0.420 +40 +60 +80 +100 Source Ambient temperature [°C]

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.

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Power Relay RM 8 (Continued)

Coil Data (continued)								
Coil versions, AC coil								
Coil c	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	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	23500 ²⁾	2.61/2.20		

2) Coil resistance ±15%.

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

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	Illa	

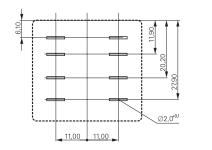
Other Data

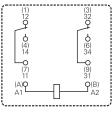
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

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

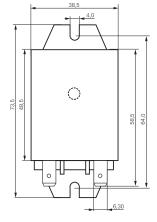
Bottom view on pins

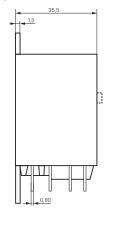




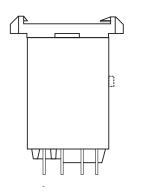
Dimensions

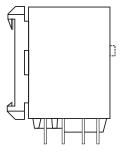
Cover with mounting brackets, 6.3mm quick connect terminals





Cover with DIN-snap-on attachement horizontal vertical





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Power Relay RM 8 (Continued)

Product	code structure	Typical pro	duct code	RM	8	0	9	024
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Туре								
R	Power relay RM8							
Contact of	configuration							
8	2 form C contacts (2 CO), 25A							
Version								
0	AgCdO, without test button 3 A	AgCdO, with test button						
2	AgNi90/10, without test button 7 A	AgNi90/10, with test button						
Enclosure	3		-					
5	cover with mounting brackets, 6.3mm quick con	nect terminals						
8								
9	cover with DIN-snap-on attachment, vertical, 6.3	mm quick connect terminals						
Coil	. , , , , ,							_
Co	il code: please refer to coil versions table							

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

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