## **Power Relay RM 8**

- 2 pole 25 A, 2 form C (2 CO) contacts
- DC or AC coil
- Mechanical indicator
- Push-to-test button

Typical applications

Chassis- or DIN-rail mount



F0165-B

### Approvals

VDE REG.-Nr. 40003144, cULus E214025, approvals for AgNi contacts in preparation Technical data of approved types on request

Cleaning equipment, heating and cooling equipment

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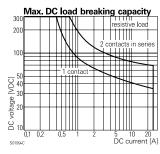
Contact Data	
Contact arrangement	2 form C (CO)
Rated voltage	400VAC
Max. switching voltage	400VAC
Rated current	25A
Limiting making current, 20ms max.	60A
Switching power	6000VA
Contact material	AgCdO, AgNi90/10
Min. recommended contact load	24VDC/100mA
Frequency of operation,	
with/without load, DC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

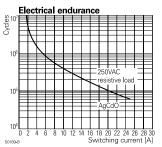
### Contact ratings

Contac	raungs		
Туре	Contact	Load	Cycles
<b>IEC 61</b>	B10		
RM80	C (CO)	25 A, 250 VAC, cosφ=1 35°C	10x10 <sup>3</sup>
UL 508			
RM80	A/B (NO/NC)	25 A, 240 VAC, 1 phase per pole,	
		general purpose 40°C	6x10 <sup>3</sup>
RM8	A/B (NO/NC)	25 A, 415 VAC, resistive, AC-Coil 45°C	10x10 <sup>3</sup>
RM80	A/B (NO/NC)	25 A, 415 VAC, resistive, DC-Coil 50°C	10x10 <sup>3</sup>
RM82	A/B (NO/NC)	16 A, 415 VAC, resistive, 70°C	30x10 <sup>3</sup>
RM82	A/B (NO/NC)	240 VAC, 1phase, 2HP, 50°C	6x10 <sup>3</sup>

Mechanical endurance

10x10<sup>6</sup> 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)	
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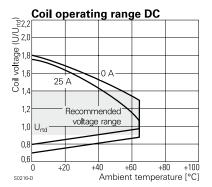
#### Coil versions DC coil

COILA	ersions, i					
		Coil code	Э	Rated	Coil	Rated coil
STD	LED	PD <sup>3)</sup>	LED+	voltage	resistance	power
	bipolar		PD <sup>3)</sup>	VDC	Ω±10% <sup>1)2)</sup>	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	10000 <sup>1)</sup>	1.2
221	N21	2C1	NC1	220	40000 <sup>2)</sup>	1.2
Operate voltage, DC coil 75% of rated coil voltage						
Releas	e voltage,	DC coil		10% of	f rated coil volta	age

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



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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	2.4	4.7	2.86/2.36			
512	R12	12	9.6/10.2	4.8	19.5	2.71/2.27			
524	R24	24	19.2/20.4	9.6	80	2.62/2.00			
548	R48	48	38.4/40.8	19.2	320	2.60/2.17			
560	R60	60	48.0/51.0	24.0	500	2.62/2.20			
615	S15	115	92.0/97.8	46.0	1850	2.65/2.22			
730	T30	230	184.0/195.5	92.0	7500	2.69/ 2.26			
900	V00	400	320.0/340.0	160.0	23500 <sup>2)</sup>	2.61/2.20			

2) Coil resistance ±15%

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

# Insulation Data

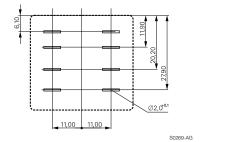
1500Vrms
2500Vrms
4000Vrms
5000V(1.2/50µs)
6000V(1.2/50µs)
≥4.0/14.9mm
≥15.3/15.3mm
Illa

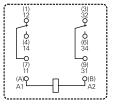
### **Other Data**

Material compliance: EU RoHS/ELV, C	hina RoHS, REACH, Halogen content
refer to the P	roduct Compliance Support Center at
www.tycoelectronics.com	n/customersupport/rohssupportcenter
Ambient temperature	
DC coil	-45 to +65°C
AC coil	-45 to +45°C
16 A contact load	-45 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

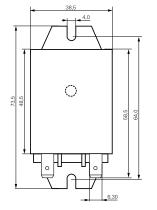




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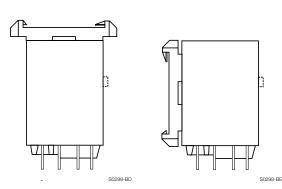
### Dimensions

Cover with mounting brackets, 6.3mm quick connect terminals



1,5

Cover with DIN-snap-on attachement horizontal vertical



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## Power Relay RM 8 (Continued)

Product	code structure		Typical product code	RM	8	0	9	024
Туре								
RI	<b>V</b> Power relay RM8							
Contact of	configuration							
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						
Enclosur	e							
5	cover with mounting brackets, 6.3mm qui	ick connect terminals						
8	cover with DIN-snap-on attachment, horiz	ontal, 6.3mm quick connect terminals	S					
9	cover with DIN-snap-on attachment, vertic	cal, 6.3mm quick connect terminals						
Coil	· · · ·	·						-
Co	bil 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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