

Power Relay RM 5/6/B 3mm

- 2 and 3 pole 10/16A, 2 form A (2 NO) or 3 form A (3 NO) contacts
- 3mm contact gap
- DC or AC coil
- Push-to-test button
- Plug-in version, PCB terminals, chassis or DIN rail mount

Typical applications Power supplies, pump control.

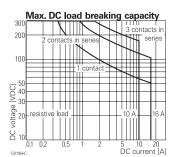
Approvals

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

Contact Data	RM5	RM6	RMB
Contact arrangement	2 form A	3 form A	3 form A
-	2 NO	3 NO	3 NO
Contact gap	3mm	3mm	3mm
Rated voltage	400VAC	230VAC	230VAC
Max. switching voltage	440VAC	400VAC	400VAC
Rated current	16A	10A	16A
Limiting making current, max 20ms	30A	25A	30A
Switching power	6000VA	3800VA	6000VA
Contact material		AgNi90/10	
Min. recommended contact load		24VDC/100mA	
Frequency of operation, with/without	t load	960/6000h ⁻¹	
Operate/release time max., DC coil		20/5ms	
Bounce time max., form A, DC coil		4ms	

Contact	ratings
oomuot	ruungo

Conta	ci laings		
Туре	Contact	Load	Cycles
IEC 61	810		
RM5	A (NO)	16Α, 230/400VAC, cosφ=1, 35°C	100x10 ³
RM5 (E	DC) A (NO)	12A, 400VAC, cosφ=1, same. pol., 70°C	100x10 ³
RM5	A (NO)	10A, 48VDC, 70°C	30x103
RM5	A (NO)	10A, 400VAC, 70°C	30x103
RM6	A (NO)	10A, 230/400VAC, cosφ=1, 35°C to 50°C	100x10 ³
RM6 (D	DC) A (NO)	12A, 400VAC, cosφ=1, same. pol., 50°C	100x10 ³
RMB	A (NO)	16A, 400VAC same polarity, $\cos \varphi = 1$, 40°C	100x10 ³
UL 508	3		
RM5	A (NO)	16A, 415VAC, resistive, 50°C	100x103
RM5	A (NO)	16A, 277VAC, general purpose, 50°C	30x103
RM6	A (NO)	10A, 415VAC, resistive, DC-coil, 70°C	100x103
RM6	A (NO)	10A, 415VAC, resistive, AC-coil, 50°C	100x10 ³
RM6	A (NO)	10A, 277VAC, gen. purp., DC-coil, 70°C	30x103
RM6	A (NO)	10A, 277VAC, gen. purp., AC-coil, 50°C	30x103
RMB	A (NO)	16A, 277VAC, general purpose, 25°C	30x103
Mecha	nical endura	nce	
DC	coil	15x10 ⁶ operations	
AC	coil	10x10 ⁶ operations	



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Catalog product data, 'Definitions' section, application notes and all specifications are subject to change. 1



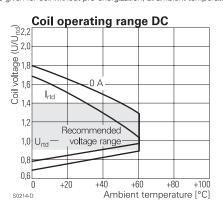
Coil Data	
Coil voltage range	6 to 220 VDC
	12 to 400 VAC
Operative range, IEC 61810	90 to 100% of rated coil voltage
Coil insulation system according UL	class 130 (B)

Coil v	ersions,	DC coil				
		Coil code	e	Rated	Coil	Rated coil
STD	LED	$PD^{2)}$	LED+	voltage	resistance	power
	bipolar		PD ²⁾	VDC	$\Omega \pm 10\%^{1)}$	W
Coil v	ersions,	DC coil,	RM5, RM6			
006	L06	0A6	LA6	6	24	1.5
012	L12	0B2	LB2	12	86	1.7
024	L24	0C4	LC4	24	345	1.7
048	L48	0E8	LE8	48	1340	1.7
060	L60	0G0	LG0	60	2200	1.6
110	M10	1B0	MB0	110	7300	1.7
221	N21	2C1	NC1	220	300001)	1.6
Coil v	ersions,	DC coil,	RMB			
012	-	-	-	12	62.6	2.3
024	-	-	-	24	250	2.3
Operat	te voltage	, DC coil		75% of	rated coil vota	age
	se voltage			10% of	rated coil volta	age
1) Coil r	ocietanco +	15%				

1) Coil resistance ±15%,

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

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



RM 5/6

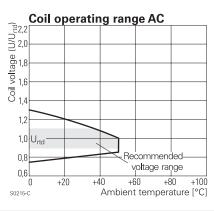


Power Relay RM 5/6/B 3mm (Continued)

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	$\Omega \pm 10\%^{1)}$	VA				
Coil ve	Coil versions, AC-coil, RM5, RM6									
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 ¹⁾	2.61/2.20				
1) 0 1		150/								

1) Coil resistance ±15%.

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



Insulation Data	RM5	RM6	RMB
Initial dielectric strength			
between open contacts	2500Vrms	2500Vrms	2500Vrms
between contact and coil	2500Vrms	2500Vrms	2500Vrms
between adjacent contacts	2500Vrms	2500Vrms	2500Vrms
Initial surge withstand voltage	4000V	4000V	4000V
between contact and coil	5000V	4000V	4000V
between adjacent contacts, RM	15 6000V	-	-
Clearance/creepage			
between contact and coil		≥ 4.0/14.9mm	1
between adjacent contacts		≥ 6.1/7.3mm	
Material group of insulation parts		Illa	

 Other Data
 RM5
 RM6
 RMB

 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 50°C -40 to 60°C -40 to 40°C				
AC coil	-40 to 50°C -40 to 50°C -				
Category of environmental protecti	ion				
IEC 61810	RTI - dust protected				
Vibration resistance (functional)	12 g, 30 to 150 Hz				
Terminal type	PCB-THT, plug-in,				
	quick-connect (QC)				
Cover retention, pull/push force	100/100N				
Mounting position	versions with test button not to be				
	mounted with button on top				
Weight	81g				
Resistance to soldering heat THT					
IEC 60068-2-20	270°C/10s				
Packaging unit	10/25 pcs.				

Accessories

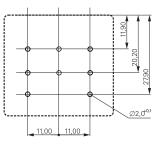
 Sockets for Plug-in version RM**2:

 For details see datasheet
 Accessories Power Relay RM

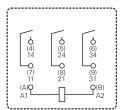
 Note: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

PCB layout / terminal assignment

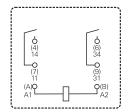
Bottom view on pins



3 form A (3 NO) contacts



2 form A (2 NO) contacts



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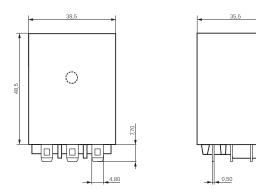
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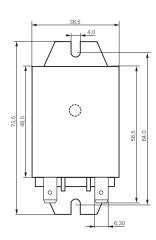
Power Relay RM 5/6/B 3mm (Continued)

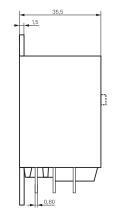
Dimensions

Plain cover, plug-in version

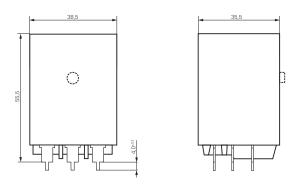


Cover with mounting brackets, 6.3mm quick connect (4.8mm available)

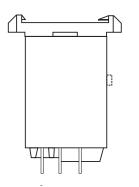


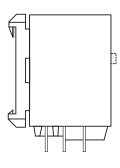


PCB version



Cover with DIN-snap-on attachement (6.3mm quick connect only) horizontal vertical





Гуре	M Power relay RM5/6/B 3mm								
	arrangement								
5			A contacts (3 NO), 10A A contacts (3 NO), 16A						
lersion							-		
0	Discontinued: AgCdO, without test be	itton, without me	chanical indicator 1)						
2	AgNi90/10, without test button, witho								
3	,	· · · · · · · · · · · · · · · · · · ·							
7	AgNi90/10, with test button, without	nechanical indica	itor						
Enclosu	-								
2	· · · · · · · · · · · · · · · · · · ·	, 0		ower Relay RM)					
3	, ··,	1							
5	,,,,,,,,,,	n quick connect t	erminals						
7	PCB version								
8									
	Cover with DIN-snap-on attachment,	vortical 6 2mm	wick connect terminals						

1) AgCdO contacts are discontinued and replaced with AgNi contacts (see PCN E-18-003016)

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Power Relay RM 5/6/B 3mm (Continued)

Product code	Contacts	Cont. material	Version	Enclosure	Coil	Coil voltage	Part number
RM522012	2 form A	AgNi	Without	Plain cover	DC-coil	12VDC	2-1415546-4
RM522024	2 NO contacts	AgNi	test button	4.8 mm terminal	DC-coil	24VDC	2-1415547-2
RM525012		AgNi		Mounting brackets	DC-coil	12VDC	5-1415544-6
RM525024		AgNi		quick con. 6.3 mm	DC-coil	24VDC	8-1415545-7
RM525730		AgNi			AC-coil	24VAC	2-1415546-5
RM527024		AgNi		PCB version	DC-coil	24VDC	2-1415546-6
RM528730		AgNi		DIN-snap-on	AC-coil	230VAC	2-1415546-7
				horizontal			
RM622024	3 form A	AgNi	Without	Plain cover	DC-coil	24VDC	2-1415546-8
	3 NO contacts		test button	4.8 mm terminal			
RM627012		AgNi		PCB version	DC-coil	12VDC	2-1415546-9
RM627024		AgNi			DC-coil	24VDC	5-1415538-2
RM627730		AgNi			AC-coil	230VAC	3-1415546-0
RMB27012	3 form A	AgNi	W/o test button	PCB version	DC-coil	12VDC	2-1415547-7
RMB27024	3 NO contacts	AgNi	W/o mech. Indicator	16A	DC-coil	24VDC	5-1415546-5

This list represents the most common types and does not show all variants covered by this datasheet.

Other types on request

4

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