

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.

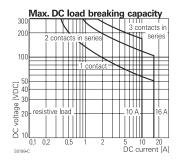
Contact Data	RM5	RM6	RMB		
Contact arrangement	2 form A	3 form A	3 form A		
	2 NO	3 NO	3 NO		
Contact gap	3mm	3mm	3mm		
Rated voltage	400VAC	230VAC	230VAC		
Max. switching voltage	440VAC	400VAC	400VAC		
Rated current	16A	10A	16A		
Limiting making current, max 20ms	30A	25A	30A		
Switching power	6000VA	3800VA	6000VA		
Contact material		AgCdO,			
	AgNi90/10 in preparation				
Min. recommended contact load		24VDC/100m/	4		
Frequency of operation, with/withou	it load	960/6000h ⁻¹			
Operato/release time may DC coil		20/5mg			

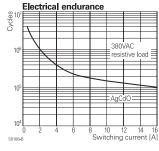
Min. recommended contact load	24VDC/100mA
Frequency of operation, with/without load	960/6000h ⁻¹
Operate/release time max., DC coil	20/5ms
Bounce time max., form A, DC coil	4ms

Contact ratings

Туре	Contact	Load	Cycles
IEC 618	310		
RM50	A (NO)	16A, 230/400VAC, cosφ=1, 35°C	100x10 ³
RM50	A (NO)	10A, 48VDC, 70°C	30x10 ³
RM50	A (NO)	10A, 400VAC, 70°C	30x10 ³
RM60	A (NO)	10A, 230/400VAC, cosφ=1, 35°C	100x10 ³
RMB0	A (NO)	16A, 400VAC same polarity, cosφ=1, 50°C	100x10 ³
UL 508			
RM5	A (NO)	16A, 415VAC, resistive, 50°C	100x10 ³
RM5	A (NO)	16A, 277VAC, general purpose, 50°C	30x10 ³
RM6	A (NO)	10A, 415VAC, resistive, DC-coil, 70°C	100x10 ³
RM6	A (NO)	10A, 415VAC, resistive, AC-coil, 50°C	100x10 ³
RM6	A (NO)	10A, 277VAC, gen. purp., DC-coil, 70°C	30x10 ³
RM6	A (NO)	10A, 277VAC, gen. purp., AC-coil, 50°C	30x10 ³
RMB	A (NO)	16A, 277VAC, general purpose, 25°C	30x10 ³
Mechan	nical endura	ance	

DC coil	20x10 ⁶ operations
AC coil	20x10 ⁶ operations







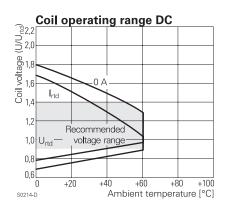
Coil Data	
Coil voltage range	6 to 220 VDC
	6 to 400 VAC
Operative range, IEC 61810	90 to 100% of rated coil voltage
Coil insulation system according UL	class 130 (B)

Coil v	ersions,	DC coil				
		Coil code	€	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			
024	-	-	-	24	250	2.3
Operat	Operate voltage, DC coil 75% of rated coil voltage					
Releas	Release voltage, DC coil 10% of rated coil voltage					
4) 0 !!		1.50/				

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

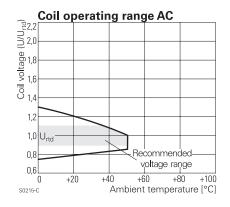


Power Relay RM 5/6/B 3mm (Continued)

Coil Data (continued)								
Coil v	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 v	ersions	, AC-coil, F	RM5, RM6					
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	235001)	2.61/2.20		

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, RN	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	

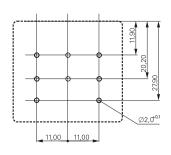
Other Data	RM5	RM6	RMB
Material compliance: EU RoHS/E	LV, China RoH	S, REACH, H	alogen content
refer to t	he Product Co	mpliance Sup	port Center at
www.te	.com/custome	rsupport/rohs	supportcenter
Ambient temperature			
for mounting/handling		-20 to 40°C	
in operation			
DC coil	-40 to 50°C	-40 to 60°C	-40 to 50°C
AC coil	-40 to 50°C	-40 to 50°C	-
Category of environmental protect	tion		
IEC 61810	RTI	- dust protec	cted
Vibration resistance (functional)	12	g, 30 to 150	Hz

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.

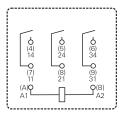
Accessories	
For details see datasheet	Accessories Power Relay RM
Note: indicated contact ratings and	d electrical endurance data for direct
wiring of relays (according IEC 618	310-1); for relays mounted on sockets
deratings may apply.	

PCB layout / terminal assignment

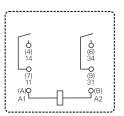
Bottom view on pins



3 form A (3 NO) contacts



2 form A (2 NO) contacts



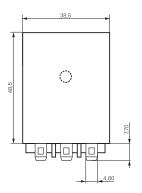
Terminal type

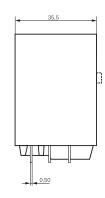


Power Relay RM 5/6/B 3mm (Continued)

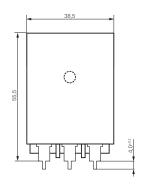
Dimensions

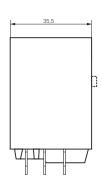
Plain cover, plug-in version



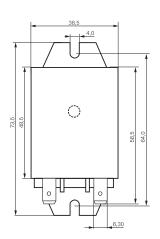


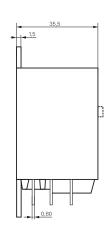
PCB version



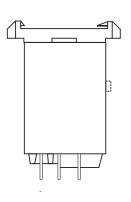


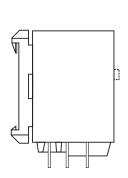
Cover with mounting brackets, 6.3mm quick connect (4.8mm available)

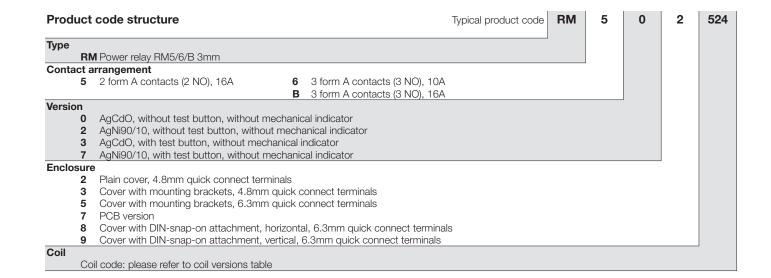




Cover with DIN-snap-on attachement (6.3mm quick connect only) horizontal vertical









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

Product key	Contacts	Version	Enclosure	Coil	Coil	Part number
RM502024	2 form A,	Without	Plain cover	DC coil	24VDC	6-1393146-1
RM502524	2 NO contacts	test button	QC 4.8mm	AC coil	24VAC	6-1393146-2
RM502615	16A	without			115VAC	6-1393146-3
RM502730		mech. indicator			230VAC	6-1393146-4
RM503024			Mounting brackets	DC coil	24VDC	8-1393148-0
RM503615			quick c. 4.8mm	AC coil	115VAC	6-1393146-5
RM505024			Mounting brackets	DC coil	24VDC	8-1393148-3
RM505615			QC 6.3mm	AC coil	115VAC	6-1393146-6
RM505730					230VAC	9-1393149-9
RM507024			PCB version	DC coil	24VDC	1393844-1
RM507524				AC coil	24VAC	5-1415008-1
RM507615					115VAC	6-1415015-1
RM507730					230VAC	1415008-1
RM535024		With test button	Mounting brackets	DC coil	24VDC	7-1393146-2
RM535524		w/o mech.indicator	QC 6.3mm	AC coil	24VAC	9-1393148-0
RM602024	3 form A,	Without	Plain cover	DC coil	24VDC	1393844-4
RM602615	3 NO contacts	test button	QC 4.8mm	AC coil	115VAC	9-1393148-7
RM605730	10A	without	Mount.br. q.c.6.3		230VAC	7-1393146-6
RM607024		mech. indicator	PCB version	DC coil	24VDC	1393844-6
RM607524				AC coil	24VAC	7-1393146-8
RM607615					115VAC	8-1415015-1
RM607730					230VAC	7-1393146-9
RM632024		With	Plain cover	DC coil	24VDC	8-1393146-0
RM632730		test button	QC 4.8mm	AC coil	230VAC	1393149-7
RM635024		without	Mount.br.QC 6.3	DC coil	24VDC	7-1393107-7
RM637024		mech. indicator	PCB version		24VDC	1393149-9
RMB07024	3 A (NO) cont. 16A	W/o test, indicator				2-1415543-7

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6031007G 6131406HQ 6-1393099-3 6-1393099-8 6-1393122-4 6-1393123-2 6-1393767-1 6-1393843-7 6-1415012-1 6-1419102-2 6-
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1616359-9 6-1616360-9 6-1616931-6 6-1617039-1 6-1617052-1 6-1617090-2 6-1617090-5 6-1617347-5 6-1617353-3 6-1617801-8 6-
1617802-2 6-1618107-9 6-1618248-4 M83536/1-027M CX-4014 MAHC-5494 MAVCD-5419-6 703XCX-120A 7-1393100-5 7-1393111-7
7-1393144-5 7-1393767-8
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