

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.

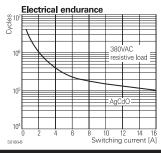
Contact Data	RM5	RM6	RMB
Contact arrangement	2 form A	3 form A	3 form A
-	2 NO	3 NO	3 NO
Contact gap	3mm	3mm	3mm
Rated voltage	400VAC	230VAC	230VAC
Max. switching voltage	440VAC	400VAC	400VAC
Rated current	16A	10A	16A
Limiting making current, max 20ms	30A	25A	30A
Switching power	6000VA	3800VA	6000VA
Contact material	Αç	Ni90/10; AgC	dO
Min. recommended contact load		24VDC/100m/	A
Frequency of operation, with/withou	it load	960/6000h ⁻¹	
Operate/release time max., DC coil		20/5ms	
Bounce time max., form A. DC, coil		4ms	

Contact ratings

AC coil

Contac	t ratings		
Type	Contact	Load	Cycles
IEC 618	310		
RM5	A (NO)	16A, 230/400VAC, cosφ=1, 35°C	100x10 ³
RM52	A (NO)	12A, 400VAC, cosφ=1, same. pol., 70°C	100x10 ³
RM5	A (NO)	10A, 48VDC, 70°C	30x10 ³
RM5	A (NO)	10A, 400VAC, 70°C	30x10 ³
RM6	A (NO)	10A, 230/400VAC, cosφ=1, 35°C	100x10 ³
RM62 (I	DC) A (NO)	12A, 400VAC, cosφ=1, same. pol., 50°C	100x10 ³
RMB	A (NO)	16A, 400VAC same polarity, cosφ=1, 40°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 enduran	ce	
DC c	:oil	15x10 ⁶ operations	

r	Vlax.	DC loa	ad bre	akin	g capa	city
300				$ \sqrt{} $	3 cont	acts in
200		LIXI.	in corio			series
100	20	ontacts	in series		$\downarrow \downarrow$	361163
50 50 40						
OC voltage [VDC]	resistiv	 re load _				16 A
	0,1 0,2	0,5	1	2	5 10 DC curr	20 ent [A]



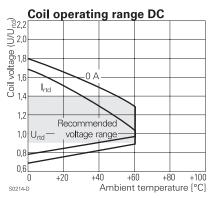
10x10⁶ operations



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 ve	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 ve	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 ve	ersions,	DC coil,	RMB			
012	-	-	-	12	62.6	2.3
024	-	-	-	24	250	2.3
Operat	e voltage	, DC coil		75% of	rated coil vota	age
Releas	e voltage	, DC coil		10% of	rated coil volta	age
1) Coil re	esistance ±	15%,				
2) Proto	ction diada	DD: stand	ard polarity: 1	Λ1 / _ΛΩ		

- 2) 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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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.

RM 5/6

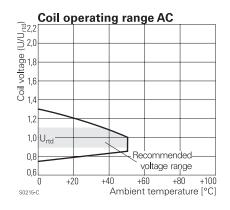


Power Relay RM 5/6/B 3mm (Continued)

Coil [Coil Data (continued)							
Coil ve	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	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		

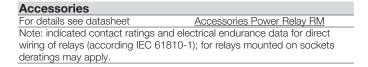
¹⁾ Coil resistance ±15%.

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



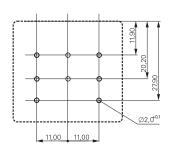
Insulation Data	RM5	RM6	RMB
Initial dielectric strength			
between open contacts	2500Vrms	2500Vrms	2500Vrms
between contact and coil	2500Vrms	2500Vrms	2500Vrms
between adjacent contacts	2500Vrms	2500Vrms	2500Vrms
Initial surge withstand voltage	4000V	4000V	4000V
between contact and coil	5000V	4000V	4000V
between adjacent contacts, RN	<i>I</i> 5 6000V	-	-
Clearance/creepage			
between contact and coil		≥ 4.0/14.9mm	า
between adjacent contacts		≥ 6.1/7.3mm	
Material group of insulation parts		Illa	

Other Data	RM5	RM6	RMB
Material compliance: EU RoHS/EL	_V, China RoH	S, REACH, Ha	alogen content
refer to the	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	RT	- dust protec	cted
Vibration resistance (functional)	12	g, 30 to 150	Hz
Terminal type	PO	CB-THT, plug-	in,
	qu	ick-connect (0	QC)
Cover retention, pull/push force		100/100N	
Mounting position	versions v	vith test butto	n not to be
	mounte	ed with button	on top
Weight		81g	
Resistance to soldering heat THT			
IEC 60068-2-20		270°C/10s	

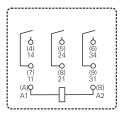


PCB layout / terminal assignment

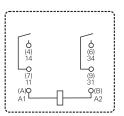
Bottom view on pins



3 form A (3 NO) contacts



2 form A (2 NO) contacts



Packaging unit

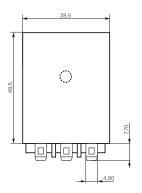
10/25 pcs.

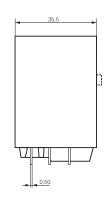


Power Relay RM 5/6/B 3mm (Continued)

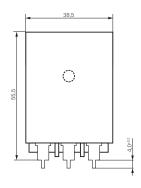
Dimensions

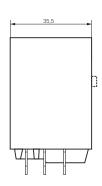
Plain cover, plug-in version



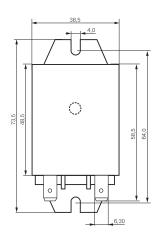


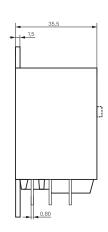
PCB version



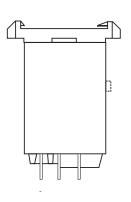


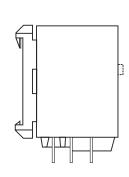
Cover with mounting brackets, 6.3mm quick connect (4.8mm available)





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





Product code structure 5 2 524 **RM** 2 Typical product code Type RM Power relay RM5/6/B 3mm **Contact arrangement** 5 2 form A contacts (2 NO), 16A 3 form A contacts (3 NO), 10A 3 form A contacts (3 NO), 16A В Version AgCdO, without test button, without mechanical indicator 1) AgNi90/10, without test button, without mechanical indicator 3 AgCdO, with test button, without mechanical indicator 1) 7 AgNi90/10, with test button, without mechanical indicator **Enclosure** Plain cover, 4.8mm quick connect terminals 2 3 Cover with mounting brackets, 4.8mm quick connect terminals Cover with mounting brackets, 6.3mm quick connect terminals 7 PCB version 8 Cover with DIN-snap-on attachment, horizontal, 6.3mm quick connect terminals Cover with DIN-snap-on attachment, vertical, 6.3mm quick connect terminals

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

Coil code: please refer to coil versions table

Coil



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

Product key	Contacts	Cont. material	Version	Enclosure	Coil	Coil	Part number
RM502024	2 form A,	AgCdO	Without	Plain cover	DC coil	24VDC	6-1393146-1
RM522012	2 NO contacts	AgNi	test button	QC 4.8mm		12VDC	2-1415546-4
RM522024		AgNi	without			24VDC	8-1415547-2
RM502524		AgCdO	mech. indicator		AC coil	24VAC	6-1393146-2
RM502615		AgCdO				115VAC	6-1393146-3
RM502730		AgCdO				230VAC	6-1393146-4
RM503024		AgCdO		Mounting brackets	DC coil	24VDC	8-1393148-0
RM503615		AgCdO		quick c. 4.8mm	AC coil	115VAC	6-1393146-5
RM505024		AgCdO		Mounting brackets	DC coil	24VDC	8-1393148-3
RM525012		AgNi		QC 6.3mm		12VDC	5-1415544-6
RM525024		AgNi				24VDC	8-1415545-7
RM505615		AgCdO			AC coil	115VAC	6-1393146-6
RM505730		AgCdO				230VAC	9-1393149-9
RM525730		AgNi				230VAC	2-1415546-5
RM507024		AgCdO		PCB version	DC coil	24VDC	1393844-1
RM527024		AgNi				24VDC	2-1415546-6
RM507524		AgCdO			AC coil	24VAC	5-1415008-1
RM507615		AgCdO				115VAC	6-1415015-1
RM507730		AgCdO				230VAC	1415008-1
RM528730		AgNi		DIN-snap-on horizontal		230VAC	2-1415546-7
RM535024		AgCdO	With test button	Mounting brackets	DC coil	24VDC	7-1393146-2
RM535524		AgCdO	w/o mech.indicator	QC 6.3mm	AC coil	24VAC	9-1393148-0
RM602024	3 form A,	AgCdO	Without	Plain cover	DC coil	24VDC	1393844-4
RM622024	3 NO contacts	AgNi	test button	QC 4.8mm	DO 0011	24VDC	2-1415546-8
RM602615	0110 0011000	AgCdO	without	ζο ποιπιπ	AC coil	115VAC	9-1393148-7
RM605730		AgCdO	mech, indicator	Mount.br. q.c.6.3	, 10 00	230VAC	7-1393146-6
RM607024		AgCdO	THOUSE IN TOTAL CO.	PCB version	DC coil	24VDC	1393844-6
RM627012		AgNi		. 32 (3.3.3.1	20 00	12VDC	2-1415546-9
RM627024		AgNi				24VDC	5-1415538-2
RM627730		AgNi			AC coil	230VAC	3-1415546-0
RM607524		AgCdO			, 10 00	24VAC	7-1393146-8
RM607615		AgCdO				115VAC	8-1415015-1
RM607730		AgCdO				230VAC	7-1393146-9
RM632024		AgCdO	With	Plain cover	DC coil	24VDC	8-1393146-0
RM632730		AgCdO	test button	QC 4.8mm	AC coil	230VAC	1393149-7
RM635024		AgCdO	without	Mount.br.QC 6.3	DC coil	24VDC	7-1393107-7
RM637024		AgCdO	mech, indicator	PCB version	20 0011	24VDC	1393149-9
RMB07012	3 A (NO) cont. 16A	AgCdO	W/o test, indicator	1 00 10101011		12VDC	1-1415545-6
RMB07024	O / (NO) COILL TOA		vv/o tost, il idicator			24VDC	2-1415543-7
UNID01054		AgCdO				Z4VDC	2-1410043-7