

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.

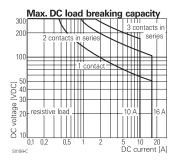
Approvals
VDE Cert. No. 40003144, UL E214025
Technical data of approved types on request.

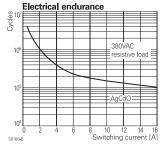
Contact Data	RM5	RM6	RMB
Contact arrangement	2 form A	3 form A	3 form A
	2 NO	3 NO	3 NO
Contact gap	3mm	3mm	3mm
Rated voltage	400VAC	230VAC	230VAC
Max. switching voltage	440VAC	400VAC	400VAC
Rated current	16A	10A	16A
Limiting making current, max 20ms	30A	25A	30A
Switching power	6000VA	3800VA	6000VA
Contact material		AgCdO,	
	Ag	Ni90/10 for R	M5
Min. recommended contact load	4	24VDC/100m/	4
Frequency of operation, with/withou	t load	960/6000h ⁻¹	
Operate/release time max., DC coil		20/5ms	
Bounce time max., form A, DC coil		4ms	

Co	nta	ct	ratii	าตร

AC coil

Type	Contact	Load	Cycles
IEC 618		Load	Cyclos
IEC 616	310		
RM5	A (NO)	16A, 230/400VAC, cosφ=1, 35°C	100x10 ³
RM5	A (NO)	10A, 48VDC, 70°C	30x10 ³
RM5	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	nce	
DC c	oil	20x10 ⁶ operations	





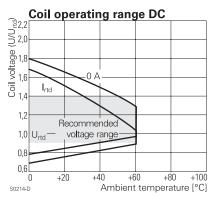
20x10⁶ operations



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	Coil versions, 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	
012	-	-	-	12	62.6	2.3	
Operat	te voltage	, DC coil		75% of	rated coil vota	age	
Releas	e voltage	, DC coil		10% of	rated coil volta	age	
1) Coil r	esistance ±	15%,					

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



RM 5/6

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

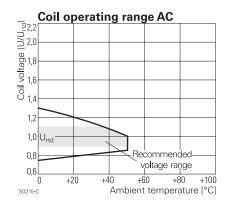


Power Relay RM 5/6/B 3mm (Continued)

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		

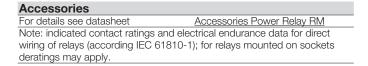
¹⁾ Coil resistance ±15%.

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



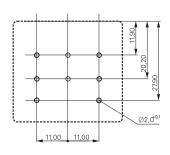
Insulation Data	RM5	RM6	RMB
Initial dielectric strength			
between open contacts	2500Vrms	2500Vrms	2500Vrms
between contact and coil	2500Vrms	2500Vrms	2500Vrms
between adjacent contacts	2500Vrms	2500Vrms	2500Vrms
Initial surge withstand voltage	4000V	4000V	4000V
between contact and coil	5000V	4000V	4000V
between adjacent contacts, RN	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/EL	V, China RoH	S, REACH, H	alogen content
refer to the	ne Product Co	mpliance Sup	port Center at
www.te.	.com/custome	ersupport/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	l - dust protec	cted
Vibration resistance (functional)	12	g, 30 to 150	Hz
Terminal type	P	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 buttor	on top
Weight		81g	
Resistance to soldering heat THT			
IEC 60068-2-20		270°C/10s	

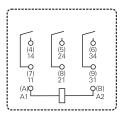


PCB layout / terminal assignment

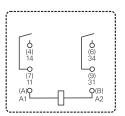
Bottom view on pins



3 form A (3 NO) contacts



2 form A (2 NO) contacts



Packaging unit

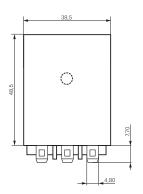
10/25 pcs.

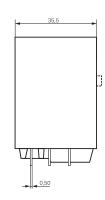


Power Relay RM 5/6/B 3mm (Continued)

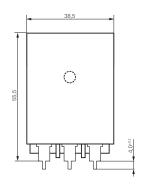
Dimensions

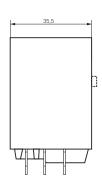
Plain cover, plug-in version



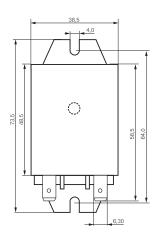


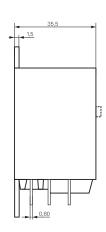
PCB version



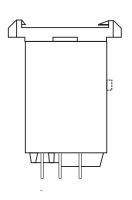


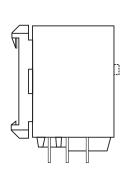
Cover with mounting brackets, 6.3mm quick connect (4.8mm available)

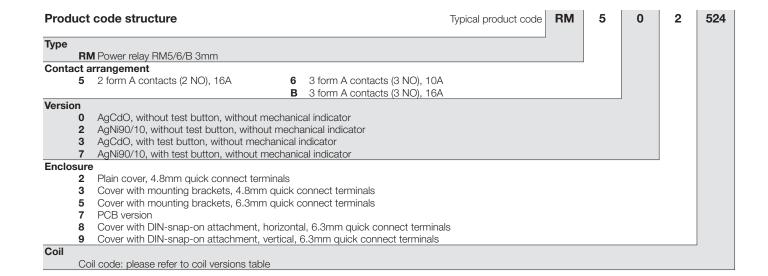




Cover with DIN-snap-on attachement (6.3mm quick connect only) horizontal vertical









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
RM502524	2 NO contacts	AgCdO	test button	QC 4.8mm	AC coil	24VAC	6-1393146-2
RM502615	16A	AgCdO	without			115VAC	6-1393146-3
RM502730		AgCdO	mech. indicator			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		Mounting brackets	DC coil	12VDC	5-1415544-6
RM505615		AgCdO		QC 6.3mm	AC coil	115VAC	6-1393146-6
RM505730		AgCdO				230VAC	9-1393149-9
RM507024		AgCdO		PCB version	DC coil	24VDC	1393844-1
RM507524		AgCdO			AC coil	24VAC	5-1415008-1
RM507615		AgCdO				115VAC	6-1415015-1
RM507730		AgCdO				230VAC	1415008-1
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
RM602615	3 NO contacts	AgCdO	test button	QC 4.8mm	AC coil	115VAC	9-1393148-7
RM605730	10A	AgCdO	without	Mount.br. q.c.6.3		230VAC	7-1393146-6
RM607024		AgCdO	mech. indicator	PCB version	DC coil	24VDC	1393844-6
RM607524		AgCdO			AC coil	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		24VDC	1393149-9
RMB07024	3 A (NO) cont. 16A	AgCdO	W/o test, indicator			24VDC	2-1415543-7
RMB07012	3 A (NO) cont. 16A	AgCdO	W/o test, indicator			12VDC	1-1415545-6