

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/withou	it load	960/6000h ⁻¹	
Operate/release time max., DC coil		20/5ms	
Bounce time max., form A, DC coil		4ms	

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Coi	ntact	ratir	าตร

Contact ratings		
Type Contact	Load	Cycles
IEC 61810		
RM5 A (NO)	16A, 230/400VAC, cos φ =1, 35°C	100x10 ³
RM5 (DC) 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 to 50°C	100x10 ³
RM6 (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
Mechanical endurar	nce	
DC coil	15x10 ⁶ operations	
AC coil	10x10 ⁶ operations	
UL 508 RM5 A (NO) RM6 A (NO) RM8 A (NO) Mechanical enduration DC coil	16A, 415VAC, resistive, 50°C 16A, 277VAC, general purpose, 50°C 10A, 415VAC, resistive, DC-coil, 70°C 10A, 415VAC, resistive, AC-coil, 50°C 10A, 277VAC, gen. purp., DC-coil, 70°C 10A, 277VAC, gen. purp., AC-coil, 50°C 16A, 277VAC, general purpose, 25°C nce 15x10° operations	100x10 ³ 30x10 ³ 100x10 ³ 100x10 ³ 30x10 ³ 30x10 ³

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300		\square		\forall	1 111111	tacts in
200		$\square N \square$	ш	\downarrow		series
	2 c	ontacts	in seri	es		series
100			1 cor	tact		
<u></u> 50						+
O 40						
age	resistiv				 	16 A
DC voltage [VDC]						
S0198-C	0,1 0,2	0,5	1	2	5 10 DC cur	20 rent [A]

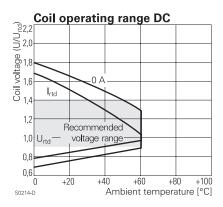


Coil Data	
Coil voltage range	6 to 220 VDC
	12 to 400 VAC
Operative range, IEC 61810	90 to 100% of rated coil voltage
Coil insulation system according UL	class 130 (B)

Coil v	ersions,	DC coil				
		Coil code)	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
Opera	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%,				

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

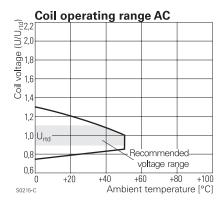


Power Relay RM 5/6/B 3mm (Continued)

Coil [Coil Data (continued)								
Coil ve	ersions	, AC coil							
Coil co	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						
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	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	IS. REACH. H	alogen content

refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature for mounting/handling -20 to 40°C

for mounting/handling -20 t 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 protection

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

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Resistance to soldering heat THT	
IEC 60068-2-20	270°C/10s
Packaging unit	10/25 pcs.

Accessories

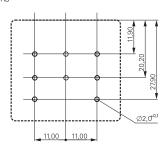
Sockets for Plug-in version RM**2:

For details see datasheet Accessories Power Relay RM

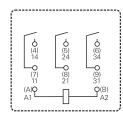
Note: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

PCB layout / terminal assignment

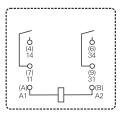
Bottom view on pins



3 form A (3 NO) contacts



2 form A (2 NO) contacts

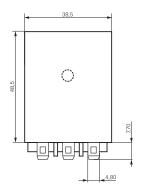


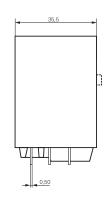


Power Relay RM 5/6/B 3mm (Continued)

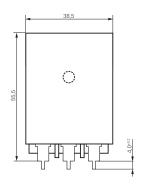
Dimensions

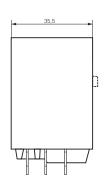
Plain cover, plug-in version



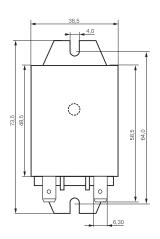


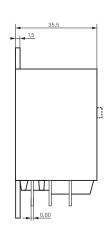
PCB version



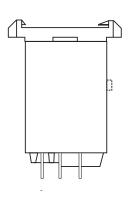


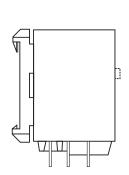
Cover with mounting brackets, 6.3mm quick connect (4.8mm available)





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 Discontinued: AgCdO, without test button, without mechanical indicator 1) AgNi90/10, without test button, without mechanical indicator 3 Discontinued: 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, Plug-in version (see Accessories Power Relay RM) 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 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

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D38999/24FJ4AN 570416-000 CLTEQ-M81CE-SSRELAY-4-20V 4-1195131-0 650069-000 SMD100-2 358838-000 CB-1022B-78

RM707012 RP410012 MMS42 1-640426-8 2EDL4CM DTS20W19-11PD-3028-LC RM202615 NC6-P104-06 MSPS103B DTS26F2141HE-LC DTS26F21-41AE DTS26F21-41PE-LC DTS26F21-11SE-3028-LC 30DCB6 1932144-1 293545-4 LVR125S MS27466T25F4PB

CKB-38-78010 TR04AI-TINELLOCKRING 1206SFF150F/63-2 D38999/20JB35HA TE1500A2R2J D38999/20WC8BB DTS24F19-11SC3028-LC D38999/24WG11HA D38999/24WG11HN MS27467T21F11H DJT16E21-11HA MS27467T21F35J MS27467T21F11J

MS27467T21F16H-LC MS27467T21F35H MS27467T21F41H-LC 1206SFH150F/24-2 RP330024 DJT16E21-11PA-LC DJT16E21-11HA
LC DJT16E21-11AA MS27467T21B11JA DJT16E21-11JA MS27467T21B11JA-LC