

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



E0164-B

Approvals	
VDF RFG -Ni	_

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	4	24VDC/100m.	A

	Agini90/ 10 in preparation
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

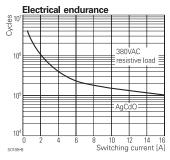
Ca	nta	ct r	atin	a

Contac	riaunys		
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, 50°C	100x10 ³
RM6	A (NO)	10A, 277VAC, general purpose, 50°C	$30x10^3$
RMB	A (NO)	16A, 277VAC, general purpose, 25°C	$30x10^3$
Maabaa	مرياه مام المعار		

Mechanical endurance

20x10⁶ operations DC coil 20x10⁶ operations AC coil

	Max. Do	C loa	d bre	akin	g cap	acity
300		XIII		abla	7 11111	ntacts in
200	\vdash	IXII.	Ш <u>></u>		1300	series
100	2 cor	tacts ii	series		$\frac{1}{2}$	selles
			1 conta	ct		
50 20 40		Ш				
\geq 30		++++		\vdash		-
OC voltage [VDC]	resistive	load			10 A -	16 A
	0.1 0.2	0.5			5 1	0 20
S0198-0		0,0	'	_		rrent [A]



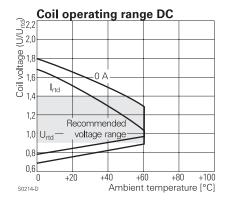
Coil Data	
Coil voltage range	6 to 220 VDC
0 0	6 to 400 VAC
Operative range, IEC 61810	90 to 100% of rated coil voltage
Coil insulation system according UL	class 130 (B)

Coil v	ersions,	DC coil				
	ĺ	Coil code	Э	Rated	Coil	Rated coil
STD	LED	$PD^{2)}$	LED+	voltage	resistance	power
	bipolar		PD ²⁾	VDC	$\Omega \pm 10\%^{1)}$	W
Coil v	ersions, l	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
Opera	te voltage	, DC coil		75% of	rated coil volt	age

Release voltage, DC coil 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

10% of rated coil voltage

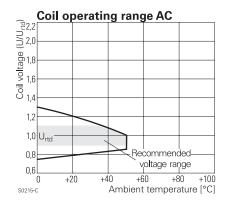


Power Relay RM 5/6/B 3mm (Continued)

Coil I	Coil Data (continued)					
Coil ve	ersions,	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 versions, AC-coil, 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	23500 ¹⁾	2.61/2.20

¹⁾ Coil resistance ±15%

 $\rm \stackrel{,}{N}$ All figures are given for coil without pre-energization, at ambient temperature +23°C



RM5	RM6	RMB
2500Vrms	2500Vrms	2500Vrms
2500Vrms	2500Vrms	2500Vrms
2500Vrms	2500Vrms	2500Vrms
4000V	4000V	4000V
5000V	4000V	4000V
15 6000V	-	-
	≥ 4.0/14.9mm	1
	≥ 6.1/7.3mm	
	Illa	
	2500Vrms 2500Vrms 2500Vrms 4000V 5000V	2500Vrms 2500Vrms 2500Vrms 2500Vrms 2500Vrms 2500Vrms 4000V 4000V 5000V 4000V - ≥ 4.0/14.9mm ≥ 6.1/7.3mm

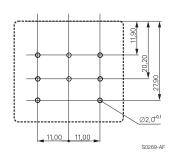
Other Data	RM5	RM6	RMB	
Material compliance: EU RoHS/ELV	, China RoH	S, REACH, H	alogen content	
refer to the	e Product Co	mpliance Sup	port Center at	
www.te.c	om/custome	ersupport/rohs	supportcenter	
Ambient temperature				
DC coil	-45 to 50°C	-45 to 60°C	-45 to 50°C	
AC coil	-45 to 50°C	-45 to 50°C	-	
Category of environmental protection	on			
IEC 61810	RT	l - dust protec	ted	
Vibration resistance (functional) 12 g, 30 to 150 Hz				
Terminal type	PCB-THT, plug-in,			
	qu	ick-connect (C	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		

Packaging unit 10/25 pcs.

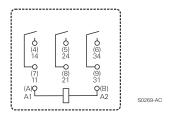
Accessories	
For details see datasheet	Accessories Power Relay RM
	d electrical endurance data for direct 810-1); for relays mounted on sockets

PCB layout / terminal assignment

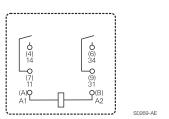
Bottom view on pins



3 form A (3 NO) contacts



2 form A (2 NO) contacts

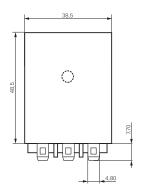


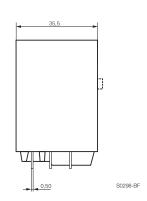


Power Relay RM 5/6/B 3mm (Continued)

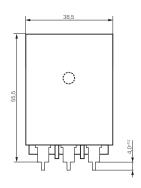
Dimensions

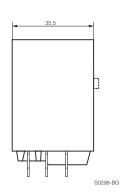
Plain cover, plug-in version



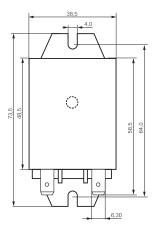


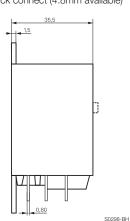
PCB version



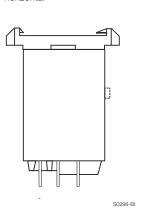


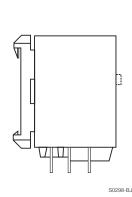
Cover with mounting brackets, 6.3mm quick connect (4.8mm available)

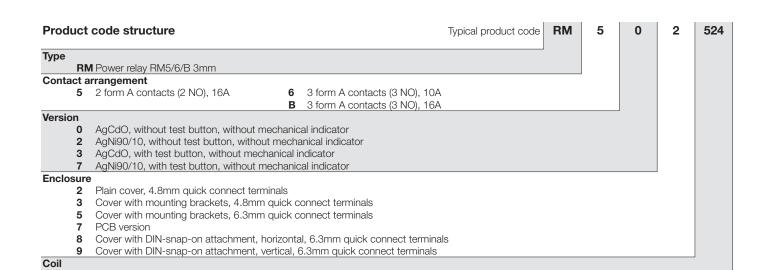




Cover with DIN-snap-on attachement (6.3mm quick connect only) horizontal vertical







Coil code: please refer to coil versions table



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	quick c. 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			quick c. 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	quick c. 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	quick c. 4.8mm	AC coil	115VAC	9-1393148-7
RM605730	10A	without	Mount.br. q.c.6.3		230VAC	7-1393146-6
RM607024		mechanical ind.	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	quick c. 4.8mm	AC coil	230VAC	1393149-7
RM635024		without	Mount.br. q.c.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