

Power Relay RM 2/3/7

- 2/3 pole 10/16A, 2 form C (CO) or 3 form C (CO) contacts
- Switching capacity up to 6000VA
- DC or AC coil
- **■** Mechanical indicator
- Push-to-test button
- Plug-in version, PCB terminals, chassis- or DIN-rail mount

Typical applications Elevator control, power supplies



F0163-B

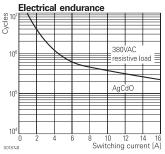


Approvals
VDE Cert. No. 40003144, UL E214025
Technical data of approved types on request

Contact Data	RM2	RM3	RM7
Contact arrangement	2 form C	3 form C	3 form C
-	2 CO	3 CO	3 CO
Rated voltage		400VAC	
Max. switching voltage		440VAC	
Rated current	16A	10A	16A
Limiting making current, max. 20ms	40A	40A	40A
Switching power	6000VA	3800VA	6000VA
Contact material	ACdO,	AgCdO,	AgCdO
	AgNi90/10	in prepa	aration
Min. recommended contact load		24VDC/100m/	4
Frequency of operation, with/withou	it load	960/6000h ⁻¹	
Operate/release time max., DC coil		15/10ms	
Bounce time max., DC coil, form A/	form B	4/10ms	

Contac	t ratings		
Туре	Contact	Load	Cycles
IEC 618	310		
RM20	C (CO)	16A, 400VAC, cosφ=1, 35°C	100x10 ³
RM22	C (CO)	16A, 400VAC, cosφ=1, DC-coil, 70°C	100x10 ³
RM22	C (CO)	16A, 400VAC, cosφ=1, AC-coil, 60°C	50x10 ³
RM30	C (CO)	10A, 400VAC, cosφ=1, 35°C	100x10 ³
RM70	C (CO)	16A, 400VAC, cosφ=1, 35°C	100x10 ³
UL 508	i e		
RM2	A (NO)	16A, 277VAC, general purpose, 70°C	$30x10^3$
RM2	A (NO)	16A, 415VAC, resistive, 70°C	100x10 ³
RM20	A (NO)	10A, 48VDC, 50°C	$30x10^3$
RM3	C (CO)	10A, 415VAC, resistive, DC-coil, 70°C	100x10 ³
RM3	C (CO)	10A, 415VAC, resistive, AC-coil, 55°C	100x10 ³
RM30	A (NO)/B (NC)	10A, 277VAC, gen. purp., DC-coil, 70°C	$30x10^3$
RM30	A (NO)/B (NC)	10A, 277VAC, gen. purp., AC-coil, 55°C	$30x10^3$
RM7	A (NO)	16A, 415VAC, resistive, 50°C	100x10 ³
RM7	A (NO)/B (NC)	16A, 277VAC, general purpose, 50°C	30x10 ³

Max. DC load bre	aking capacity
300	resistive load 810
200	I I I I I I I I I I I I I I I I I I I
	3 contacts in series
100 2 contacts in series	10
100	"
50 1 contact	
8 40	-
≥ 30	10
20 Aof and a contact.	
<u>\$</u> 20	10 A 16 A
9	
일 10	
0.1 0.2 0.5 1 2	
S0197-C	DC current [A] S0187



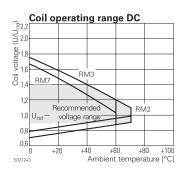
Contact Data (continued)	RM2	RM3	RM7
Mechanical endurance			
DC coil	20	0x10 ⁶ operation	ons
AC coil	20	0x10 ⁶ operatio	ons

Coil Data		
Coil voltage range	6 to 220VDC	
	6 to 400VAC	
Operative range, IEC 61810	2	
Coil insulation system according UL	class 130 (B)	

Coil versions, DC coil

		Coll code	9	Rated	Coll	Rated coil
STD	LED	$PD^{3)}$	LED+	voltage	resistance	power
	bipolar		PD ³⁾	VDC	$\Omega \pm 10\%^{1)2)}$	W
Coil v	ersions,	DC coil,	RM2, RM3			
006	L06	0A6	LA6	6	32	1.1
012	L12	0B2	LB2	12	110	1.3
024	L24	0C4	LC4	24	475	1.2
048	L48	0E8	LE8	48	2000	1.2
060	L60	0G0	LG0	60	2850	1.3
110	M10	1B0	MB0	110	100001)	1.2
221	N21	2C1	NC1	220	400002)	1.2
Coil v	ersions,	DC coil,	RM7			
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	300002)	1.6
Operat	te voltage	, DC coil		75% of	rated coil volta	age
Releas	e voltage	, DC coil		10% of	rated coil volta	age
1) Coil re	esistance ±	12%, 2) Co	il resistance ±1	5%		

- 3) 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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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets 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

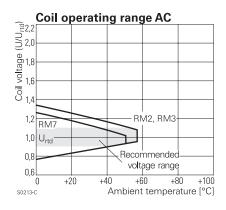
Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



Coil [Data (c	ontinued)				
	_					
		, AC coil				
Coil c		Rated	Operate	Release	Coil	Rated coil
STD	LED	voltage	voltage	voltage	resistance	power
			50/60Hz	50/60Hz		50/60Hz
		VAC	VAC	VAC	$\Omega \pm 10\%^{1)2)}$	VA
Coil ve	ersions	, AC-coil, R	M2, RM3			
506	R06	6	4.8/5.1	1.8	5.3	2.29/1.98
512	R12	12	9.6/10.2	3.6	24	2.19/1.86
524	R24	24	19.2/20.4	7.2	86	2.26/ 1.95
548	R48	48	38.4/40.8	14.4	345	2.28/1.97
560	R60	60	48.0/51.0	18.0	544	2.27/1.96
615	S15	115	92.0/97.8	34.5	2000	2.37/2.00
730	T30	230	184.0/195.5	69.0	83001)	2.32/ 1.96
900	V00	400	320.0/340.0	120.0	27500 ²⁾	2.31/1.96
Coil ve	ersions	, AC-coil, R	RM7			
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 ²⁾	2.61/2.20

 $^{^{1)}}$ Coil resistance ±12%, $^{2)}$ Coil resistance ±15%

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



Insulation Data	RM2	RM3	RM7		
Initial dielectric strength					
between open contacts	1500Vrms	1500Vrms	1500Vrms		
between contact and coil	2500Vrms	2500Vrms	2500Vrms		
between adjacent contacts	2500Vrms	2500Vrms	2500Vrms		
Initial surge withstand voltage					
between contact and coil	5000V	4000V	4000V		
Clearance/creepage					
between contact and coil		≥4.0/14.9mm			
between adjacent contacts	≥6.1/7.3mm				
Material group of insulation parts		Illa			

Other Data	RM2	RM3	RM7
Material compliance: EU	RoHS/ELV, China RoHS	S, REACH,	Halogen content
	refer to the Product Co	mpliance S	Support Center at
	www.te.com/custome	rsupport/ro	hssupportcenter

Ambient temperature			
for mounting/handling		-20 to 40°C	
in operation			
DC coil	-40 to 70°C	-40 to 70°C	-40 to 60°C
AC coil	-40 to 60°C	-40 to 55°C	-40 to 50°C
Cold storage, IEC 60068-2-1		16h/-40°C	
Dry heat, IEC 60068-2-2		16h/+85°C	
Damp heat cyclic, IEC 60068-2-3	0, Db, Variant	112/12h +25	/+55°C
Category of environmental protect	tion		
IEC 61810	RT	I - dust proted	cted
Vibration resistance (functional)			
form A (NO)/form B (NC)	5/2g	5/2g	12/4g
Terminal type	P	CB-THT, plug-	-in,
		quick-connec	t
Cover retention, pull/push force		100/100N	
Weight		81g	
Resistance to soldering heat THT			
IEC 60068-2-20		270°C/10s	
Packaging unit		10/25 pcs.	

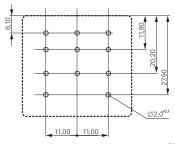
Accessories

For details see datasheet <u>Accessories Power Relay RM</u>
Note: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets

wiring of relays (according IEC 61810-1); for relays mounted on socked deratings may apply.

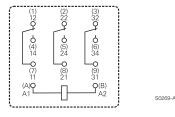
PCB layout / terminal assignment

Bottom view on pins

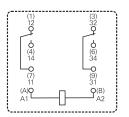


S0269-AA

3 form C (CO) contacts



2 form C (CO) contacts

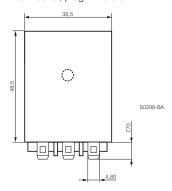


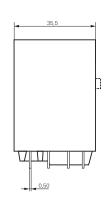
S0269-AE



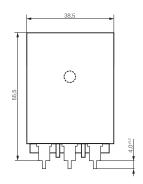
Dimensions

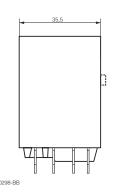
Plain cover, plug-in version



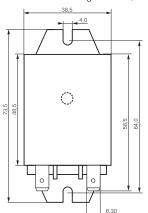


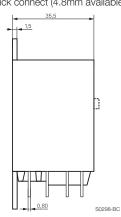
PCB version



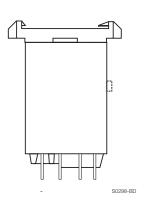


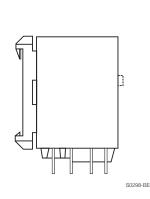
Cover with mounting brackets, 6.3mm quick connect (4.8mm available)





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





Product code structure

Typical product code

7

RM

2

730

R

Туре

RM Power Relay RM 2/3/7

Contact arrangement

- 2 2 form C contacts (2 CO contacts), 16A3 form C contacts (3 CO contacts), 10A
 - 10A 1 3
- 3 form C contacts (3 CO contacts), 16A

Version

AgCdO, without test buttonAgNi 90/10, without test button

3 AgCdO, with test button7 AgNi 90/10, with test button

Enclosure

- 2 Plain cover, 4.8mm quick connect terminals
- 3 Cover with mounting brackets, 4.8mm quick connect terminals
- 5 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
- 9 Cover with DIN-snap-on attachment, vertical, 6.3mm quick connect terminals

Coil

Coil code: please refer to coil versions table



Product code	Contacts	Version	Enclosure	Coil	Coil	Part numbe
RM202024	2 form C	Without	Plain cover	DC coil	24VDC	8-1393149-2
RM202524	2 CO contacts	test button	quick c. 4.8mm	AC coil	24VAC	1-1393146-9
RM202615	16 A		·		115VAC	2-1393146-0
RM202730					230VAC	1-1393148-4
RM203024			Mounting brackets	DC coil	24VDC	1-1393148-6
			quick c. 4.8mm	AC coil	24VAC	
RM203524			quick c. 4.omm	AC COII		2-1393146-5
RM203615					115VAC	2-1393146-6
RM203730					230VAC	2-1393146-8
RM205024			Mounting brackets	DC coil	24VDC	2-1393146-9
RM205524			quick c. 6.3mm	AC coil	24VAC	3-1393146-0
RM205615			quion er erennin		115VAC	3-1393146-1
RM205730					230VAC	3-1393146-2
			DOD :	DO "		
RM207024			PCB version	DC coil	24VDC	3-1393146-3
RM207615				AC coil	115VAC	8-1393149-5
RM207730					230VAC	3-1393146-4
RM208024			DIN-snap-on	DC coil	24VDC	3-1393146-5
RM208730			horizontal	AC coil	230VAC	8-1393149-6
				AC COII	230VAC	
RM209730		1.4.0.1	DIN vertical			3-1393146-6
RM232024		With	Plain cover	DC coil	24VDC	3-1393146-8
RM232524		test button	quick c. 4.8mm	AC coil	24VAC	3-1393146-9
RM232615					115VAC	4-1393146-0
RM232730					230VAC	3-1393107-4
RM233024			Mounting brackets	DC coil	24VDC	3-1393107-5
RM233615			quick c. 4.8mm	AC coil	115VAC	4-1393146-2
RM235024			Mounting brackets	DC coil	24VDC	8-1393149-8
RM235730			quick c. 6.3mm	AC coil	230VAC	4-1393146-5
RM239730			DIN vertical		230VAC	4-1393148-7
RM302024	3 form C	Without	Plain cover	DC coil	24VDC	8-1393149-9
RM302524	3 CO contacts	test button	quick c. 4.8mm	AC coil	24VAC	5-1393146-3
RM302615	10 A				115VAC	5-1393146-4
RM302730					230VAC	5-1419150-3
RM303024			Mounting brackets	DC coil	24VDC	6-1393148-4
RM303615			quick c. 4.8mm	AC coil	115VAC	5-1393146-5
			quick c. 4.0mm	AO COII	230VAC	
RM303730						5-1393146-7
RM307024			PCB version	DC coil	24VDC	7-1393148-2
RM307730				AC coil	230VAC	5-1393146-9
RM332024		With	Plain cover	DC coil	24VDC	9-1393149-2
RM332524		test button	quick c. 4.8mm	AC coil	24VAC	9-1393149-3
RM332730		toot battori	quiert of Treffilm	710 0011	230VAC	9-1393149-4
			Mount. br. QC4.8	DC coil		
RM333024					24VDC	9-1393149-6
RM335730			Mount. br. QC6.3	AC coil	230VAC	6-1393107-1
RM338730			DIN horizontal		230VAC	7-1393148-7
RM339730			DIN vertical		230VAC	6-1393107-2
RM702024	3 form C	Without	Plain cover	DC coil	24VDC	8-1393146-5
RM702524	3 CO contacts	test button	quick c. 4.8mm	AC coil	24VAC	1393844-9
RM702615	16 A				115VAC	1-1393844-C
RM702730					230VAC	1-1393844-1
RM703024			Mounting brackets	DC coil	24VDC	1-1393844-2
RM703524			quick c. 4.8mm	AC coil	24VAC	9-1393146-1
RM703615			quior o. T.omin	, 10 0011	115VAC	9-1393146-2
RM703730				D.C. "	230VAC	9-1393146-4
RM705024			Mounting brackets	DC coil	24VDC	9-1393146-6
RM705524			quick c. 6.3mm	AC coil	24VAC	9-1393146-7
RM705615					115VAC	1-1393844-4
RM705730					230VAC	1-1393844-5
RM707024			PCB version	DC coil	24VDC	9-1393146-8
			I OD VELSION			
RM707524				AC coil	24VAC	1393147-1
RM707730					230VAC	1393147-2
RM708024			DIN horizontal	DC coil	24VDC	1393147-4
RM708730			quick c. 6.3mm	AC coil	230VAC	1-1419136-0
RM709024			DIN vertical	DC coil	24VDC	2-1393149-2
RM709730			Dir vortical	AC coil	230VAC	1393147-5
		/ / /:±1=	Diain			
RM732024		With	Plain cover	DC coil	24VDC	1-1393844-7
RM732524		test button	quick c. 4.8mm	AC coil	24VAC	1-1393147-0
RM732615					115VAC	1-1393147-1
RM732730					230VAC	1-1393844-8
RM733730			Mount.br. QC 4.8		230VAC	1-1393147-5
				DC 22!!		
RM735024			Mounting brackets	DC coil	24VDC	3-1393149-6
RM735524			quick c. 6.3mm	AC coil	24VAC	3-1393149-7
RM735730					230VAC	4-1393149-1
RM737730			PCB version		230VAC	2-1393147-0
RM738024			DIN-snap-on	DC coil	24VDC	2-1393844-0
RM738730			horizontal	AC coil	230VAC	2-1393147-2
			DIN-snap-on	DC coil	24VDC	4-1393149-5
RM739024 RM739730			vertical	AC coil	230VAC	2-1393844-2



Product code	Contacts	Cont. material	Version	Enclosure	Coil	Coil	Part number
RM222012	2 form C	AgNi	Without	Plain cover	DC-coil	12VDC	1-1415546-7
RM222024	2 CO contacts	AgNi	test button	4.8 mm terminal	DC-coil	24VDC	1-1415546-8
RM225012	16A	AgNi		Mounting brackets	DC-coil	12VDC	1415542-7
RM225024		AgNi		quick c. 6.3 mm	DC-coil	24VDC	1415542-8
RM225524		AgNi		·	AC-coil	24VAC	1-1415546-9
RM225615		AgNi			AC-coil	115VAC	2-1415546-0
RM225730		AgNi			AC-coil	230VAC	1415542-9
RM227024		AgNi		PCB version	DC-coil	24VDC	2-1415546-1
RM227730		AgNi			AC-coil	230VAC	2-1415546-2
RM322024	3 form C	AgNi		Plain cover	DC-coil	24VDC	2-1415546-3
RM327024	3 CO contacts	AgNi		4.8 mm terminal	DC-coil	24VDC	5-1415538-3
	10A	AgNi					
RM722012	3 form C	AgNi		Plain cover	DC-coil	12VDC	3-1415546-1
RM722024	3 CO contacts	AgNi		4.8 mm terminal	DC-coil	24VDC	3-1415546-2
RM723024	16A	AgNi		Mounting brackets	DC-coil	24VDC	3-1415546-3
				quick c. 6.3 mm			
RM725024		AgNi		Mounting brackets	DC-coil	24VDC	3-1415546-4
RM725615		AgNi		quick c. 6.3 mm	AC-coil	115VAC	3-1415546-5
RM725730		AgNi			AC-coil	230VAC	3-1415546-6
RM727024		AgNi		PCB version	DC-coil	24VDC	3-1415546-7
RM727730		AgNi			AC-coil	230VAC	3-1415546-8
RM772012		AgNi	With	Plain cover	DC-coil	12VDC	3-1415546-9
RM772024		AgNi	test button	4.8 mm terminal	DC-coil	24VDC	5-1415544-7
RM772060		AgNi			DC-coil	60VDC	2-1415545-1
RM772730		AgNi			AC-coil	230VAC	4-1415546-0
RM772900		AgNi			AC-coil	400VAC	4-1415546-1
RM778024		AgNi		DIN-snap-on	DC-coil	24VDC	4-1415546-2
		, .g		horizontal	20 00.1		
RM779730		AgNi		DIN-snap-on	AC-coil	230VAC	4-1415546-3
1 11 11 1 0 1 0 0		7.911		vertical	710 0011	2001/10	

单击下面可查看定价,库存,交付和生命周期等信息

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