- 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

Typical applications

Elevator control, power supplies

■ Plug-in version, PCB terminals, chassis- or DIN-rail mount



6 to 220VDC 6 to 400VAC

75% of rated coil voltage

Approvals

VDE REG.-Nr. 40003144, cULus 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		AgCdO,	
	AgN	li90/10 in prepa	aration
Min. recommended contact load		24VDC/100m/	Ą
Frequency of operation, with/without	it load	960/6000h-1	
Operate/release time max., DC coil		15/10ms	
Bounce time max., DC coil, form A/	form B	4/6ms	

Contact ratings

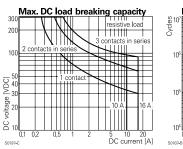
Contac	raungs		
Туре	Contact	Load	Cycles
IEC 618	310		
RM20	C (CO)	16A, 400VAC, cosφ=1, 35°C	100x10 ³
RM30	C (CO)	10A, 400VAC, cosφ=1, 35°C	100x10 ³
RM70	C (CO)	16A, 400VAC, cosφ=1, 35°C	100x10 ³
UL 508			
RM2	A (NO)	16A, 277VAC, general purpose, 50°C	30x10 ³
RM2	A (NO)	16A, 415VAC, resistive, 50°C	100x10 ³
RM20	A (NO)	10A, 48VDC, 50°C	30x10 ³
RM3	C (CO)	10A, 415VAC, resistive, 50°C	100x10 ³
RM30	A (NO)/B (NC)	10A, 277VAC, general purpose, 50°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



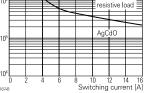
DC coil	
---------	--

AC coil

20x10⁶ operations







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Coil Data
Coil voltage range
Operative range JEC 61910

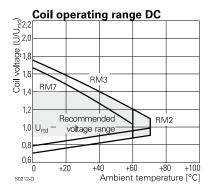
				6 to 400VAC				
Operat	ive range	, IEC 618	310		2			
			cording UL	class 130 (B)				
-			0					
Coil ve	ersions, I	DC coil						
		Coil code	Э	Rated	Coil	Rated coil		
STD	LED	PD ³⁾	LED+	voltage	resistance	power		
	bipolar		PD ³⁾	VDČ	Ω±10% ¹⁾²⁾	W		
Coil ve	ersions, I	DC coil,	RM2, RM3					
006	L06	0A6	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	10000 ¹⁾	1.2		
221	N21	2C1	NC1	220	40000 ²⁾	1.2		
Coil ve	ersions, I	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	30000 ²⁾	1.6		

Release voltage, DC coil 10% of rated coil voltage 1) Coil resistance ±12%, 2) Coil resistance ±15%

Operate voltage, DC coil

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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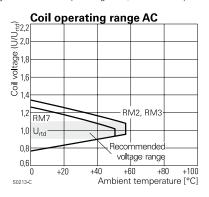
20x10⁶ operations

Power Relay RM 2/3/7 (Continued)

Coil Data (continued)

Coil ve	ersions,	AC coil					
Coil c	ode	Rated	Operate	Release	Coil	Rated coil	
STD	LED	voltage	voltage 50/60Hz	voltage 50/60Hz	resistance	power 50/60Hz	
		VAC	VAC	VAC	$\Omega \pm 10\%^{1)2)}$	VA	
Coil ve	ersions,	AC-coil, F	RM2, RM3				
506	R06	6	4.8/5.1	2.4	5.3	2.29/1.98	
512	R12	12	9.6/10.2	4.8	24	2.19/1.86	
524	R24	24	19.2/20.4	9.6	86	2.26/ 1.95	
548	R48	48	38.4/40.8	19.2	345	2.28/1.97	
560	R60	60	48.0/51.0	24.0	544	2.27/1.96	
615	S15	115	92.0/97.8	46.0	2000	2.37/2.00	
730	T30	230	184.0/195.5	92.0	8300 ¹⁾	2.32/ 1.96	
900	V00	400	320.0/340.0	160.0	27500 ²⁾	2.31/1.96	
Coil ve	Coil versions, AC-coil, RM7						
506	R06	6	4.8/5.1	2.4	4.7	2.86/2.36	
512	R12	12	9.6/10.2	4.8	19.5	2.71/2.27	
524	R24	24	19.2/20.4	9.6	80	2.62/2.00	
548	R48	48	38.4/40.8	19.2	320	2.60/2.17	
560	R60	60	48.0/51.0	24.0	500	2.62/2.20	
615	S15	115	92.0/97.8	46.0	1850	2.65/2.22	
730	T30	230	184.0/195.5	92.0	7500	2.69/ 2.26	
900	V00	400	320.0/340.0	160.0	23500 ²⁾	2.61/2.20	
1) Coil re	sistance -	+12%, ²⁾ Coil r	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 2500Vr			
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/El	_V, China RoH	S, REACH, H	alogen content				
refer to the Product Compliance Support Center at							
www.tycoelectronics.com/customersupport/rohssupportcenter							
Ambient temperature							
DC coil	-45 to 70°C	-45 to 60°C	-45 to 60°C				
AC coil	-45 to 55°C	-45 to 55°C	-45 to 50°C				
Category of environmental protec	tion						
IEC 61810 RTI - dust protected							
Vibration resistance (functional)							
form A (NO)/form B (NC)	5/2g	5/2g	12/4g				
Terminal type		CB-THT, plug					
		quick-connec	ot				
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.					

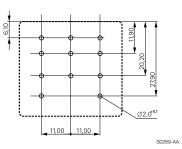
Accessories

 For details see datasheet
 Accessories Power Relay RM

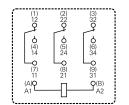
 Note: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

PCB layout / terminal assignment

Bottom view on pins

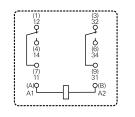


3 form C (CO) contacts



S0269-AB

2 form C (CO) contacts



S0269-AD

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2

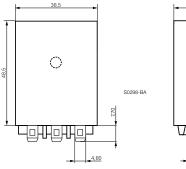
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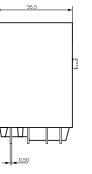
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Power Relay RM 2/3/7 (Continued)

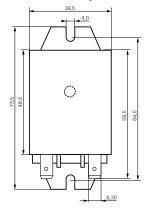
Dimensions

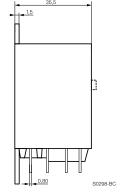
Plain cover, plug-in version



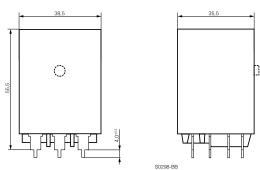


Cover with mounting brackets, 6.3mm quick connect (4.8mm available)

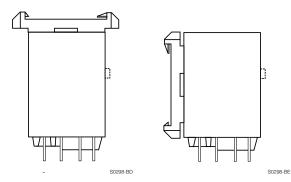




PCB version



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



730 **Product code structure** RM 7 0 2 Typical product code RM Power Relay RM 2/3/7 Contact arrangement 2 2 form C contacts (2 CO contacts), 16A 7 3 form C contacts (3 CO contacts), 16A 3 3 form C contacts (3 CO contacts), 10A Version 0 AgCdO, without test button 3 AgCdO, with test button AgNi 90/10, without test button AgNi 90/10, with test button 2 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 PCB version 7 Cover with DIN-snap-on attachment, horizontal, 6.3mm quick connect terminals 8 9 Cover with DIN-snap-on attachment, vertical, 6.3mm quick connect terminals

Coil

Туре

Coil code: please refer to coil versions table

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Power Relay RM 2/3/7 (Continued)

Product code	Contacts	Version	Enclosure	Coil	Coil	Part number
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
RM203524			quick c. 4.8mm	AC coil	24VAC	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					115VAC	3-1393146-1
RM205730					230VAC	3-1393146-2
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
RM209730			DIN vertical	110 001	230VAC	3-1393146-6
RM232024		With	Plain cover	DC coil	24VDC	3-1393146-8
RM232524		test button	guick c. 4.8mm	AC coil	24VAC	3-1393146-9
RM232615			QUICK C. 4.0ITITI	AC COI	115VAC	4-1393146-0
					230VAC	
RM232730			Maximatica a lava alvata	DO asil		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			guick c. 4.8mm	AC coil	115VAC	5-1393146-5
RM303730					230VAC	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			quor o. 4.0mm	710 001	230VAC	9-1393149-4
RM333024			Mount. br. QC4.8	DC coil	24VDC	9-1393149-6
RM335730			Mount. br. QC4.3	AC coil	230VAC	6-1393107-1
RM338730			DIN horizontal	AO COI	230VAC	7-1393148-7
					230VAC 230VAC	
RM339730	3 form C	Without	DIN vertical	DC coil		6-1393107-2
RM702024	3 CO contacts	test button	Plain cover	AC coil	24VDC 24VAC	8-1393146-5
RM702524		lest bullon	quick c. 4.8mm	AC COII		1393844-9
RM702615	16 A				115VAC	1-1393844-0
RM702730				DO 1	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					115VAC	9-1393146-2
RM703730					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
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				AC coil	230VAC	1393147-5
RM732024		With	Plain cover	DC coil	24VDC	1-1393844-7
RM732524		test button	auick c. 4.8mm	AC coil	24VDC	1-1393147-0
RM732615		toot button	quior 0. 4.0mm	10 001	115VAC	1-1393147-0
RM732730					230VAC	1-1393844-8
			Mount br 00.4.9		230VAC 230VAC	
RM733730			Mount.br. QC 4.8			1-1393147-5
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
RM739024			DIN-snap-on	DC coil	24VDC	4-1393149-5
RM739730			vertical	AC coil	230VAC	2-1393844-2

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