Power Relay RM C/D

- 1 pole 30 A, 1 form X, double make, NO or 1 form Z, double make + double break, NO + NC
- Switching capacity up to 7500VA
- DC or AC coil
- Push-to-test button
- Chassis mount

Typical applications Battery chargers, heating control	



c **FL**us

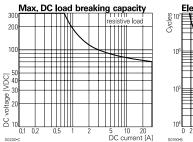
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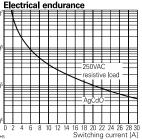
Approvals

CULus E214025 Technical data of approved types on request

Contact Data	RMC	RMD		
Contact arrangement	1 form Z,	1 form X,		
	1 NO + 1 NC	1 NO		
Rated voltage	400\	/AC		
Max. switching voltage	440\	/AC		
Rated current	30	A		
Limiting making current, max. 20ms	60	A		
Switching power	7500	AVC		
Contact material	AgCdO, Ag	gNi 90/10		
Contact style	single bridgi	ing contact		
Min. recommended contact load	24VDC/	24VDC/100mA		
Frequency of operation,				
with/without load, DC coil	960/60)00h ⁻¹		
Operate/release time max., DC coil	20/2	Oms		
Bounce time max., form A/form B, DC	C coil 4/6	ms		

Conta	ct ratings		
Туре	Contact	Load	Cycles
UL 508	3		
RMC/D	A/B (NO/NC),		
	AgCdO	30 A, 277 VAC, general purpose 50°C	10x10 ³
RMC/D	A/B (NO/NC)	30 A, 415 VAC, resistive 50°C	10x10 ³
RMC/D	A/B (NO/NC),		
	AgNi 90/10	120 VAC, 0,75 HP 50°C	10x10 ³
RMC/D	A/B (NO/NC)	240 VAC, 2 HP 50°C	6x10 ³
Mecha	nical endurance		
DC o	coil	10x10 ⁶ operations	
_ AC c	coil	10x10 ⁶ operations	





Coil Data

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

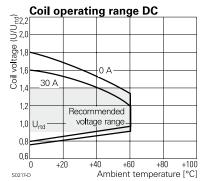
Coil versions, DC coil

0011 1	er 310113, L					
		Coil code	Э	Rated	Coil	Rated coil
STD	LED	PD ³⁾	LED+	voltage	resistance	power
	bipolar		PD ³⁾	VDČ	$\Omega \pm 10\%^{(1)2)}$	W
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
Operate voltage, DC coil 75% of rated co					rated coil volta	age
Releas	e voltage,	DC coil		10% of	rated coil volta	ade

1) Coil resistance $\pm 12\%$, 2) Coil resistance $\pm 15\%$

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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Power Relay RM C/D (Continued)

Coil Data (continued)

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	$\Omega \pm 10\%^{1)2)}$	VA		
Coil ve	ersions	, AC-coil, F	RMC, RMD					
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		
2) Coil r	pointonoo	150/						

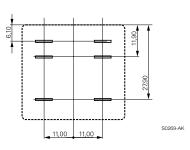
2) Coil resistance ±15%

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

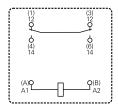
Insulation Data	RMC	RMD	
Initial dielectric strength			
between open contacts	1500Vrms	2000Vrms	
between contact and coil	2500Vrms	2500Vrms	
Initial surge withstand voltage			
between contact and coil	6000V (1.2/50µs)		
Clearance/creepage			
between contact and coil	≥4.0/1	4.9mm	
Material group of insulation parts		lla	

Terminal assignment

Bottom view on pins



1 form Z contact (1 NO + 1 NC), RMC



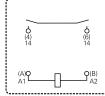
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Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.tvcoelectronics.com/customersupport/rohssupportcenter

	Customersupport/Tonssupport.cer
Ambient temperature	
DC coil	-45 to +60°C
AC coil	-45 to +40°C
Cold storage, IEC 60068-2-1	Test Aa (-40°C/16h)
Dry heat, IEC 60068-2-2	Test B (+85°C/16h)
Damp heat cyclic,	
IEC 60068-2-30, Db, Variant 1	12/12h +25/55°C 2 cycles
Category of environmental protection	
IEC 61810	RTI - dust protected
Vibration resistance (functional)	
form A (NO)/form B (NC)	10/5 g, 30 to 150Hz
Terminal type	quick-connect (QC)
Cover retention	
pull force	100N
push force	100N
Weight	81g
Packaging unit	10 pcs.

1 form X contact (1 NO), RMD

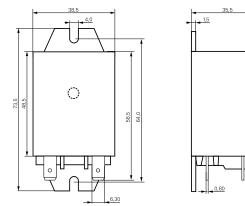


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Dimensions

Dimensions in mm

Cover with mounting brackets, 6.3mm quick connect terminals



S0298-BK

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Power Relay RM C/D (Continued)

Drodu	uct code structure			Typical product code	RM	D	0	5	730
FIUUU				Typical product code	nivi		U	5	130
Туре									
	RM Power Relay RMC/D								
Contac	ct arrangement								
	C 1 form Z (1 NO + 1 NC), 30A								
	D 1 form X (1 NO), 30A								
Versior	n						-		
	 AgCdO, without test button 	3	AgCdO, with test button						
	2 AgNi90/10, without test button	7	AgNi90/10, with test button						
Enclos	sure								
	5 Cover with mounting brackets, 6.3mm	n quick co	onnect terminals						
Coil									
	Coil code: please refer to coil versions tabl	le							

Product key	Contacts	Version	Enclosure	Coil	Coil	Part number
RMC05024	1 form Z,	Without	Mounting brackets	DC coil	24VDC	4-1393844-5
RMC05524	1 NO + 1 NC	test button	quick c. 6.3 mm	AC coil	24VAC	1393146-5
RMC05615	contact				115VAC	8-1393147-7
RMC05730	30A				230VAC	1393146-6
RMC35024		With test button		DC coil	24VDC	1393146-7
RMD05024	1 form X,	Without			24VDC	1393146-9
RMD05524	1 NO contact	test button		AC coil	24VAC	1-1393146-1
RMD05615	30A				115VAC	1415009-1
RMD05730					230VAC	4-1393844-7
RMD35024		With		DC coil	24VDC	2-1419136-2
RMD35730		test button		AC coil	230VAC	1393097-5

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