

Power Relay RM C/D

- 1 pole 30/32 A, 1 form X, double make, NO or 1 form Z, double make + double break, NO + NC
- Switching capacity up to 12800VA
- **■** DC or AC coil
- Push-to-test button
- **■** Chassis mount

Typical applications
Battery chargers, heating control.



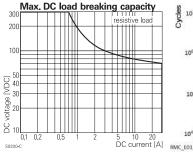


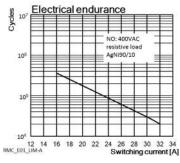
Approvals
UL E214025, VDE Cert. No. 40003144
Technical data of approved types on request.

Contact Data	RMC	RMD		
Contact arrangement	1 form Z,	1 form X,		
-	1 NO + 1 NC	1 NO		
Rated voltage	400\	VAC		
Max. switching voltage	440\	VAC		
Rated current	30A/32A (VDE)			
Limiting making current, max. 20ms	60A			
Switching power	12000VA			
Contact material	AgNi 9	90/10		
Contact style	single bridg	ing contact		
Min. recommended contact load	24VDC/100mA			
Frequency of operation,				
with/without load, DC coil	360/60	000h ⁻¹		
Operate/release time max., DC coil	20/2	0ms		
Bounce time max., form A/form B, DC	coil 4/6	ms		

Cal	ntact	ratio	ane

Contac	t ratıngs		
Type	Contact	Load	Cycles
EN 618	10		
RMC/D	X of Z (NO)		
	AgNi DC coil	32A, 400VAC res. 40°C	20x10 ³
RMC	Y of Z (NC), AgNi	32A, 400VAC res. 40°C	10x10 ³
RMC/D	X of Z (NO)		
	AgNi DC coil	30A, 400VAC res. 50°C	10x10 ³
RMC/D	X of Z (NO)		
	AgNi AC coil	30A, 400VAC res. 40°C	10x10 ³
UL 508			
RMC/D	X/Y (NO/NC)	30 A, 277 VAC, general purpose 50°C	10x10 ³
RMC/D	X/Y (NO/NC)	30 A, 415 VAC, resistive 50°C	10x10 ³
RMC/D	X (of Z / NO), AgNi	120 VAC, 0,75 HP 50°C	10x10 ³
RMC/D	X/Y (NO/NC)	240 VAC, 2 HP 50°C	6x10 ³
Mechan	ical endurance		
DC co	oil	10x10 ⁶ operations	
AC co	oil	10x10 ⁶ operations	



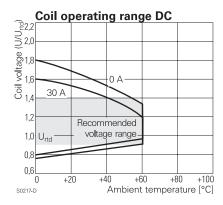


Coil Data		
Coil voltage range	6 to 220 VDC	
	12 to 400 VAC	
Operative range, IEC 61810	2	
Coil insulation system according UL	class 130 (B)	

Coil versions, DC coil								
		Coil code	Э	Rated	Coil	Rated coil		
STD	LED	PD ³⁾	LED+	voltage	resistance	power		
	bipolar		PD ³⁾	VDC	$\Omega \pm 10\%^{1)2)}$	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	100001)	1.2		
221	N21	2C1	NC1	220	400002)	1.2		
$\overline{}$		DO 1		750/	6 1 1 9 0			

Operate voltage, DC coil 75% of rated coil voltage Release voltage, DC coil 10% of rated coil voltage

 ³⁾ Protection diode PD; standard polarity: +A1 / -A2.
 All figures are given for coil without pre-energization, at ambient temperature +23°C.



¹⁾ Coil resistance ±12%, 2) Coil resistance ±15%.
3) Protection diode PD; standard polarity: +A1 / -A2.



Power Relay RM C/D (Continued)

Coil [Coil Data (continued)								
Coil versions, 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	$\Omega \pm 10\%^{1)2)}$	VA			
Coil ve	ersions	, AC-coil, F	RMC, RMD						
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	235002)	2.61/2.20			

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	1.2/50µs)
Clearance/creepage		
between contact and coil	≥4.0/1	4.9mm
Material group of insulation parts	II	la

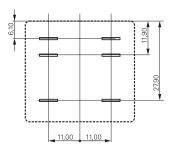
Other Data

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

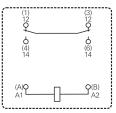
www.te.com	n/customersupport/rohssupportcenter
Ambient temperature	
for mounting/handling	-20 to +40°C
in operation	
DC coil	-40 to +60°C
AC coil	-40 to +40°C
Mounting distance	> 50mm
Cold storage, IEC 60068-2-1	Test Aa (-40°C/16h)
Dry heat, IEC 60068-2-2	Test B (+85°C/16h)
Damp heat cyclic,	
IEC 60068-2-30, 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.

Terminal assignment

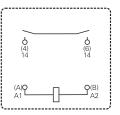
Bottom view on pins



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



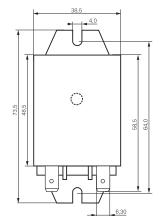
1 form X contact (1 NO), RMD

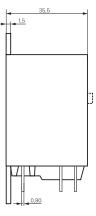


Dimensions

Dimensions in mm

Cover with mounting brackets, 6.3mm quick connect terminals







Power Relay RM C/D (Continued)

Produc	t code structure	Typical product code	RM	D	2	5	730
Туре	M Power Relay RMC/D						
	arrangement						
С	1 form Z (1 NO + 1 NC), 30A (32A at AgNi versions with DC coil) 1 form X (1 NO), 30A (32A at AgNi versions with DC coil)						
Version 0 2	Discontinued: AgCdO, without test button ¹⁾ AgNi90/10, without test button 7 AgNi90/10, with test button						
Enclosur 5 9	Cover with mounting brackets, 6.3mm quick connect terminals	(on request)					
Coil	oil code: please refer to coil versions table	V					J

¹⁾ AgCdO contacts are discontinued and replaced with AgNi contacts (see PCN E-18-003016)

Product code	Contacts	Cont. material	Version	Enclosure	Coil	Coil	Part number
RMC25024	1 form Z,	AgNi	Without	Mounting brackets	DC-coil	24VDC	5-1415546-6
RMC25048	1 NO + 1 NC	AgNi	test button	quick c. 6.3 mm	DC-coil	48VAC	5-1415546-7
RMC25730	Contacts	AgNi			AC-coil	230VAC	5-1415544-9
RMD25012	1 form X	AgNi			AC-coil	12VDC	5-1415546-8
RMD25024	1 NO contact	AgNi			DC-coil	24VDC	5-1415546-9
RMD25730		AgNi			DC-coil	230VAC	6-1415544-0

the 'Definitions' section, available at http://relays.te.com/definitions