

Power Relay RM 5/6 3 mm

- 2/3 pole 10/16 A, 2 NO or 3 NO contacts
- 3 mm contact gap
- DC- or AC coil
- Push-to-test button
- Plug-in version, PCB terminals, chassis- or DIN-rail mount

Applications

Power supplies, pump control



F0164-E

Approvals

REG.-Nr. 40003144, c Tus E214025
Technical data of approved types on request

Contact data	RM5	RM6
Contact configuration	2 NO	3 NO
Contact set	single	contact
Type of interruption	full disco	onnection
Rated voltage / max. switching voltage AC	400 / 440 VAC	230 / 400 VAC
Rated current	16 A	10 A
Maximum breaking capacity AC	6000 VA	3800 VA
Limiting making capacity, max 20 ms	25 A	25 A
Contact material	Ag(CdO
Contact gap		nm
Rated frequency of operation with / without load	16/100) min ⁻¹
Operate- / release time DC coil	max 15	/ 10 ms
Bounce time DC coil NO / NC contact	max 4	/ 6 ms

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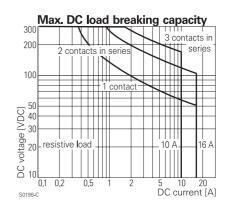
Type	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61	810			
RM50	NO	16 A, 230 / 400 VAC, cosφ=1	35°C	100x10 ³
RM50	NO	10 A, 48 VDC	70°C	30x10 ³
RM60	NO	10 A, 230 / 400 VAC, cosφ=1	35°C	100x10 ³
UL 508	8			
RM5	NO	16 A, 415 VAC, resistive	50°C	100x10 ³
RM5	NO	16 A, 277 VAC, general purpose	50°C	30x10 ³
RM6	NO	10 A, 415 VAC, resistive	50°C	100x10 ³
RM6	NO	10 A, 277 VAC, general purpose	50°C	30x10 ³

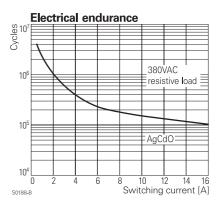


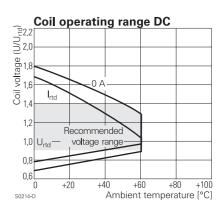
Coil versions, DC-coil

Coil	code			Rated	Operate	Release	Coil	Rated coil
STD	LED	PD*	LED+	voltage	voltage	voltage	resistance	power
k	oipolai	r	PD*	VDČ	VDC	VDC	Ohm	W
006	L06	0A6	LA6	6	4.5	0.6	24±10%	1.5
012	L12	0B2	LB2	12	9.0	1.2	86±10%	1.7
024	L24	0C4	LC4	24	18.0	2.4	345±10%	1.7
048	L48	0E8	LE8	48	36.0	4.8	1340±10%	1.7
060	L60	0G0	LG0	60	45.0	6.0	2200±10%	1.6
110	M10	1B0	MB0	110	82.5	11.0	7300±10%	1.7
221	N21	2C1	NC1	220	165.0	22.0	30000±15%	1.6
A 11 C1			,					0000

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







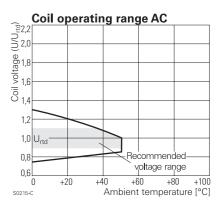




Power Relay RM 5/6 3 mm (Continued)

Coil code	,	Rated	Operate	Release	Coil	Rated coil
STD	LED	voltage	voltage	voltage	resistance	power
			50 / 60 Hz	50 / 60 Hz		50 / 60 Hz
		VAC	VAC	VAC	Ohm	VA
506	R06	6	4.8 /5.1	2.4	4.7±10%	2.86 / 2.36
512	R12	12	9.6/10.2	4.8	19.5±10%	2.71 / 2.27
524	R24	24	19.2 / 20.4	9.6	80±10%	2.62/2.00
548	R48	48	38.4 / 40.8	19.2	320±10%	2.60 / 2.17
560	R60	60	48.0 / 51.0	24.0	500±10%	2.62 / 2.20
615	S15	115	92.0/97.8	46.0	1850±10%	2.65 / 2.22
730	T30	230	184.0 / 195.5	92.0	7500±10%	2.69 / 2.26
900	V00	400	320.0 / 340.0	160.0	23500±15%	2.61 / 2.20

All figures are given for coil without preenergization, at ambient temperature +23°C



Insulation	
Dielectric strength coil-contact circuit	2500 V _{rms}
open contact circuit	2500 V _{rms}
adjacent contact circuits	2500 V _{rms}
Clearance / creepage coil-contact circuit	≥ 4/14.9 mm
adjacent contact circuits	≥ 6.1/7.3 mm
Material group of insulation parts	IIIa
Insulation to IEC 61810-1	

Type of insulation coil-contact circuit

basic

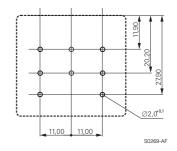
open contact circuit full disconnection ≥ 3 mm adjacent contact circuits

basic Rated insulation voltage 250 / 400 V1) Pollution degree 3 Rated voltage system 230 / 400 V

Overvoltage category 1) in combination with socket RM 78704 or isolated quick connects

PCB layout / terminal assignment

Bottom view on pins



Other data

Mechanical endurance 20x10⁶ cycles Materia

RoHS - Directive 2002/95/EC compliant as per product date code 0415

Environment

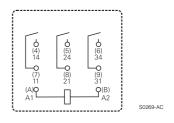
-45...+60°C Ambient temperature range DC coil AC coil -45...+50°C Vibration resistance (function) NO / NC contact 12 g, 30...150 Hz Category of protection RTI - dust protected

Processing

Mounting position versions with test button not to be mounted with button on top

Resistance to soldering heat 270°C / 10 s Relay weight 81 g 10/<u>2</u>5 pcs Packaging unit

3 NO contacts

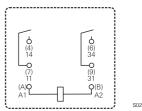


Accessories

Accessories Power Relay RM For details see datasheet

indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1, table 12); for relays mounted on sockets deratings may apply.

2 NO contacts



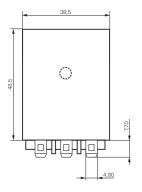
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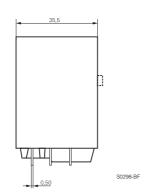


Power Relay RM 5/6 3 mm (Continued)

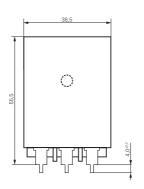
Dimensions

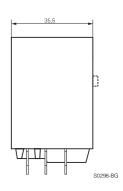




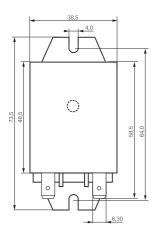


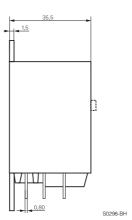
PCB version

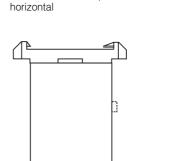




Cover with mounting brackets, 6.3 mm quick connect (4.8 mm available)

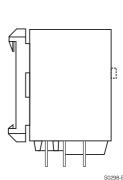






Cover with DIN-snap-on attachement (6.3 mm quick connect only)

vertical



524



Contact configuration

2 NO contacts (2 form A), 16 A

3 NO contacts (3 form A), 10 A

Version

AgCdO, without test button, without mechanical indicator

AgCdO, with test button, without mechanical indicator

Enclosure

- plain cover, 4.8 mm quick connect terminals cover with mounting brackets, 4.8 mm quick connect terminals 3
- cover with mounting brackets, 6.3 mm quick connect terminals 5
- PCB version
- cover with DIN-snap-on attachment, horizontal, 6.3 mm quick connect terminals cover with DIN-snap-on attachment, vertical, 6.3 mm quick connect terminals

Coil

Coil code: please refer to coil versions table, preferred types in bold print

change.





Power Relay RM 5/6 3 mm (Continued)

Product key	Contacts	Version	Enclosure	Coil	Coil	Part number
RM502024	2 NO contacts	without	plain cover	DC-coil	24 VDC	6-1393146-1
RM502524	16 A	test button	quick c. 4.8 mm	AC-coil	24 VAC	6-1393146-2
RM502615		without	·		115 VAC	6-1393146-3
RM502730		mech.indicator			230 VAC	6-1393146-4
RM503024			mounting brackets	DC-coil	24 VDC	8-1393148-0
RM503615			quick c. 4.8 mm	AC-coil	115 VAC	6-1393146-5
RM505024			mounting brackets	DC-coil	24 VDC	8-1393148-3
RM505615			quick c. 6.3 mm	AC-coil	115 VAC	6-1393146-6
RM505730					230 VAC	9-1393149-9
RM507024			PCB version	DC-coil	24 VDC	1393844-1
RM507524				AC-coil	24 VAC	5-1415008-1
RM507615					115 VAC	6-1415015-1
RM507730					230 VAC	1415008-1
RM535024		with test button	mounting brackets	DC-coil	24 VDC	7-1393146-2
RM535524		w/o mech.indicator	quick c. 6.3 mm	AC-coil	24 VAC	9-1393148-0
RM602024	3 NO contacts	without	plain cover	DC-coil	24 VDC	1393844-4
RM602615	10 A	test button	quick c. 4.8 mm	AC-coil	115 VAC	9-1393148-7
RM605730		without	mount.br. q.c.6.3		230 VAC	7-1393146-6
RM607024		mechanical ind.	PCB version	DC-coil	24 VDC	1393844-6
RM607524				AC-coil	24 VAC	7-1393146-8
RM607615					115 VAC	8-1415015-1
RM607730					230 VAC	7-1393146-9
RM632024		with	plain cover	DC-coil	24 VDC	8-1393146-0
RM632730		test button	quick c. 4.8 mm	AC-coil	230 VAC	1393149-7
RM635024		without	mount.br. q.c.6.3	DC-coil	24 VDC	7-1393107-7
RM637024		mech.indicator	PCB version		24 VDC	1393149-9