

Electronics

SCHRACK

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

Applications

Power supplies, pump control



F0164-A

Approvals

REG.-Nr. 40003144, c Sus 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 current	16 A	10 A		
Rated voltage / max.switching voltage AC	400/440 VAC	230/400 VAC		
Maximum breaking capacity AC	6000 VA	3800 VA		
Limiting making capacity, max 20 ms	25 A	25 A		
Contact material	AgNi90/1	0, AgCdO		
Contact gap	3 mm			
Mechanical endurance	20x10 ⁶	cycles		
Rated frequency of operation with / without load	16/100) min ⁻¹		

Contact ratings

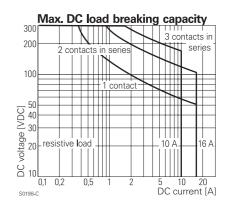
Contac	t ratings	
Type	Load	Cycles
RM5.	16 A, 415 VAC, UL	100x10 ³
RM50	16 A, 230/400 VAC, cosφ=1, 35°C, VDE	100x10 ³
RM5.	16 A, 250 VAC, general purpose, UL	30x10 ³
RM50	10 A, 48 VDC, 70°C, VDE, ÜL	30x10 ³
RM6.	5 A, 400 VAC, resistive, UL	100x10 ³
RM60	10 A, 230/400 VAC, cosφ=1, 35°C, VDE	100x10 ³
RM6.	10 A, 300 VAC, resistive, UL	100x10 ³
RM6.	10 A, 250 VAC, general purpose, UL	30x10 ³

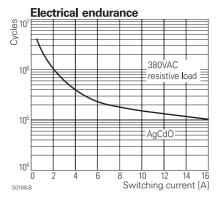
Coil data	
Rated coil voltage range DC coil	6220 VDC
AC coil	6400 VAC
Coil power DC coil	1.6 W
AC coil	2.8 VA
Operative range	1

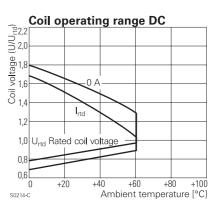
Coil versions, DC-coil

		-,						
Coil	code			Rated	Operate	Release	Coil	Rated coil
STD	LED P	D*	LED+	voltage	voltage	voltage	resistance	power
k	oipolar		PD*	VDČ	VDČ	VDC	Ohm	W
006	L06 0.	A6	LA6	6	4.5	0.6	24±10%	1.5
012	L12 0	B2	LB2	12	9.0	1.2	86±10%	1.7
024	L24 0	C4	LC4	24	18.0	2.4	345±10%	1.7
048	L48 0	E8	LE8	48	36.0	4.8	1340±10%	1.7
060	L60 0	G0	LG0	60	45.0	6.0	2200±10%	1.6
110	M10 1	B0	MB0	110	82.5	11.0	7300±10%	1.7
221	N21 2	C1	NC1	220	165.0	22.0	30000±15%	1.6
All fic	uroc orc	aiv.	on for	coil without prov	anaraizatio	n at ambier	t tomporatura	22°C

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











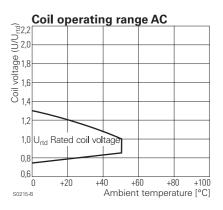


Power Relay RM 5/6 3 mm (Continued)

Coil versions, AC-coil 50/60 Hz

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

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



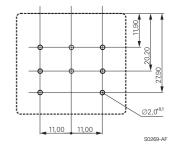
Insulation	
Dielectric strength coil-contact circuit	2500 V _{rms}
open contact circuit	2500 V _{rms}
adjacent contact circuits	2500 V _{rms}
Clearance / creepage coil-contact circuit	≥ 4/14.9 mm
adjacent contact circuits	≥ 6.1/7.3 mm
Material group of insulation parts	≥ IIIa
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	basic
open contact circuit	basic
adjacent contact circuits	basic

Rated insulation voltage 250 / 400 V¹⁾
Pollution degree 3

Pollution degree 3
Rated voltage system 240/400 V
Overvoltage category III

PCB layout / terminal assignment

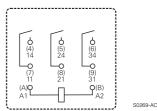
Bottom view on pins



Other data

RoHS - Directive 2002/95/EC	compliant as per product date code 0415
Ambient temperature range DC coil	-45+60°C
AC coil	-45+50°C
Operate- / release time	15/10 ms
Bounce time NO / NC contact	4 ms
Vibration resistance (function) NO / NC conta	ct 12 g, 30150 Hz
Category of protection	RTI - dust protected
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
Packaging unit	10/25 pcs

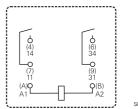
3 NO contacts



Accessories

For details see datasheet Accessories Power Relay RM

2 NO contacts



S0269-A

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



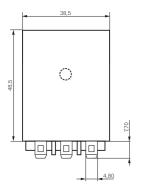


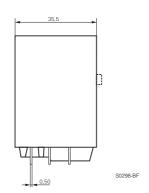
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Power Relay RM 5/6 3 mm (Continued)

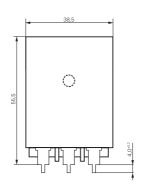
Dimensions

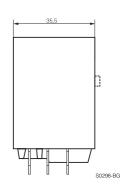
Plain cover, plug-in version



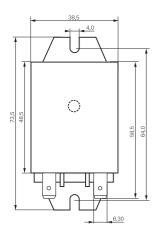


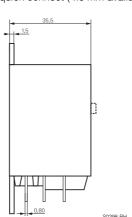




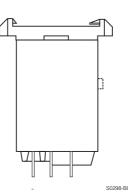


Cover with mounting brackets, 6.3 mm quick connect (4.8 mm available)

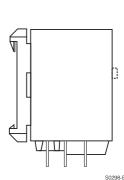




Cover with DIN-snap-on attachement (6.3 mm quick connect only) horizontal vertical



R M



Product key

Type
Contact configuration

5 2 NO contacts, 16 A

6 3 NO contacts, 10 A

Version

- 0 AgCdO, without test button, without mechanical indicator
- 2 AgNi 90/10, without test button, without mechanical indicator
- AgCdO, with test button, without mechanical indicator
- 7 AgNi 90/10, with test button, without mechanical indicator

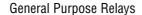
Enclosure

- 2 plain cover, 4.8 mm quick connect terminals
- 3 cover with mounting brackets, 4.8 mm quick connect terminals
- 5 cover with mounting brackets, 6.3 mm quick connect terminals
- 7 PCB version
- 8 cover with DIN-snap-on attachment, horizontal, 6.3 mm quick connect terminals
- 9 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.







Electronics

Power Relay RM 5/6 3 mm (Continued)

Product key	Contacts	Version	Enclosure	Coil	Coil	Part number
Product key RM502024	2 NO contacts	without	plain cover	DC-coil	24 VDC	6-1393146-1
RM502524	16 A	test button		AC-coil	24 VAC	6-1393146-2
	10 A		quick c. 4.8 mm	AC-COII		
RM502615		without			115 VAC	6-1393146-3
RM502730		mech.indicator	and the section of th	DO'I	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	0-1393844-1
RM507524				AC-coil	24 VAC	5-1415008-1
RM507615					115 VAC	6-1415015-1
RM507730					230 VAC	0-1415008-1
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	0-1393844-4
RM602615	10 A	test button	guick 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	0-1393844-6
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	0-1393149-7
RM635024		without	mount.br. q.c.6.3	DC-coil	24 VDC	7-1393107-7
RM637024		mech.indicator	PCB version	20 0011	24 VDC	0-1393149-9

'Schrack' section.