

Power Relay RM 5/6

2 / 3 pole 10 / 16 A, DC- or AC-coil



- 2 N/O or 3 N/O contacts
- 3 mm contact gap
- Push-to-test-button
- Plug-in version, PCB terminals, chassis- or DIN-rail mount

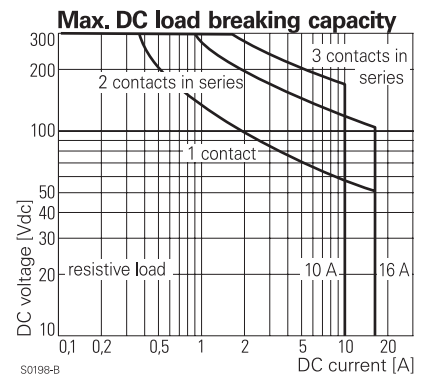
Applications
Power supplies, pump control

F0164-A

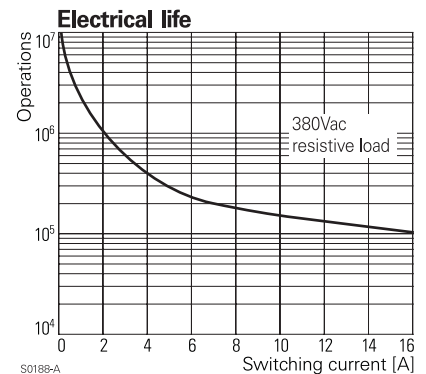


Technical data of approved types on request

Contact data	RM 5	RM 6
Configuration	2 N/O contact	3 N/O contact
Type of contact	single contact	
Rated current	16 A	10 A
Rated voltage / max. breaking voltage AC	380 Vac / 440 Vac	
Maximum breaking capacity AC	6000 VA	3800 VA
Make current (max. 4 s at duty cycle 10%)	25 A	25 A
Contact material	AgCdO	



Coil data	
Nominal voltage	DC coil 6...220 Vdc AC coil 6...400 Vac
Nominal coil power	DC coil 1.6 W AC coil 2.8 VA

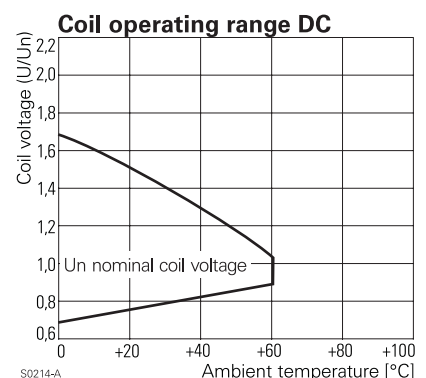


Coil versions, DC-coil, RM5, RM6

Coil code	STD	LED	PD*	LED	Nominal voltage	Pull-in voltage	Release voltage	Coil resistance	Coil current
				PD*	Vdc	Vdc	Vdc	Ω	mA
006	L06	0A6	LA6		6	4.5	0.6	24±10%	250.0
012	L12	0B2	LB2		12	9.0	1.2	86±10%	139.5
024	L24	0C4	LC4		24	18.0	2.4	345±10%	69.6
048	L48	0E8	LE8		48	36.0	4.8	1340±10%	35.8
060	L60	0G0	LG0		60	45.0	6.0	2200±10%	27.3
110	M10	1B0	MB0		110	82.5	11.0	7300±10%	15.1
221	N21	2C1	NC1		220	165.0	22.0	30000±15%	7.3

All figures are given for coil without preenergization, at ambient temperature +20°C

* Protection diode PD; standard polarity: +A1 / -A2



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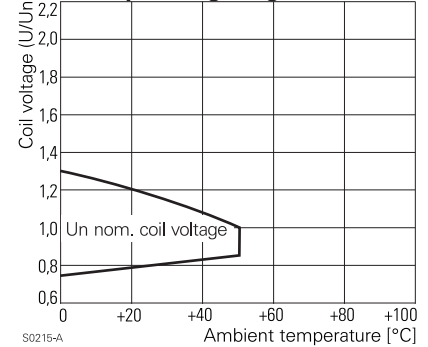
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Coil versions, AC-coil, RM5, RM6

Coil code	LED	Nominal voltage Vac	Pull-in voltage Vac	Release voltage Vac	Coil resistance Ω	Coil current mA
506	R06	6	4.8	2.4	$4.7 \pm 10\%$	476.7
512	R12	12	9.6	4.8	$19.5 \pm 10\%$	225.8
524	R24	24	19.2	9.6	$80 \pm 10\%$	109.2
548	R48	48	38.4	19.2	$320 \pm 10\%$	54.2
560	R60	60	48.0	24.0	$500 \pm 10\%$	43.7
615	S15	115	92.0	46.0	$1850 \pm 10\%$	23.0
730	T30	230	184.0	92.0	$7500 \pm 10\%$	11.7
900	V00	400	320.0	160.0	$23500 \pm 15\%$	6.5

All figures are given for coil without preenergization, at ambient temperature +20°C

Coil operating range AC



Insulation

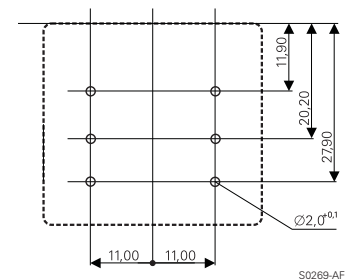
Dielectric strength	coil-contacts	2500 V _{rms}
	open contact circuit	2500 V _{rms}
	adjacent contacts	2500 V _{rms}
Clearance / creepage		$\geq 3.5 / 6$ mm
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage		C / 400 with fully isolated Faston connectors

Other data

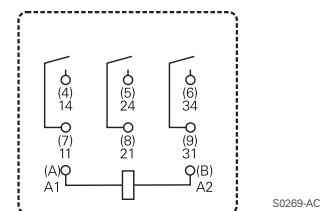
Ambient temperature	DC-coil	-45...+60 °C
	AC-coil	-45...+50 °C
Mechanical life		$>20 \times 10^6$ operations
Max. switching rate at rated- / minimum load		16 min ⁻¹ / 100 min ⁻¹
Operate- / release time		approx. 15 / 10 ms
Bounce time		approx. 4 ms
Vibration resistance		>12 g, 30...150 Hz
Relay weight		81 g
Packaging unit		10 / 25 pcs.
Accessories		see accessories RM

PCB layout / terminal assignment

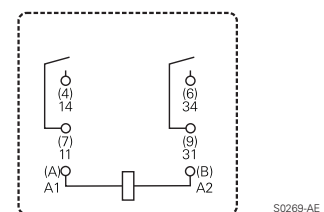
View on solder pins
Dimensions in mm



3 N/O contacts



2 N/O contacts



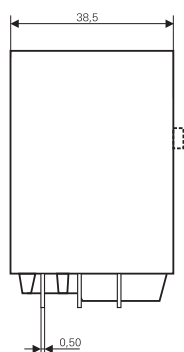
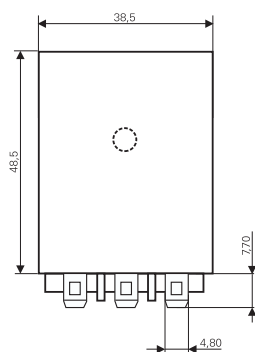
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Dimensions

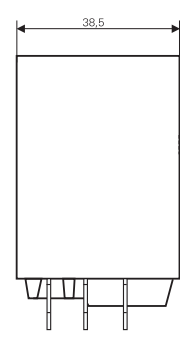
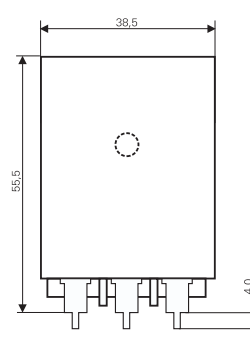
Dimensions in mm

Plain cover, plug-in version



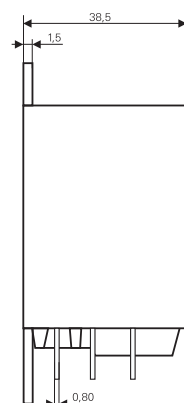
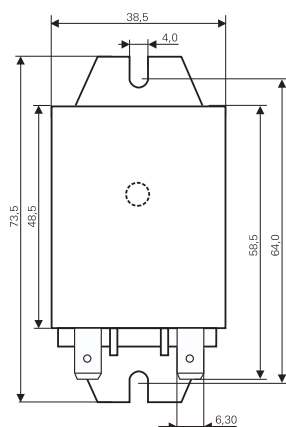
S0298-AF

PCB version



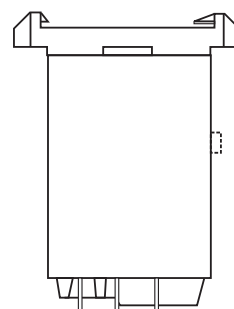
S0298-AG

Cover with mounting brackets, FASTON 250 (187 available)

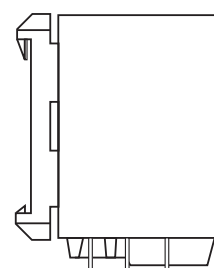


S0298-AH

Cover with DIN-snap-on attachment (FASTON 250 only)
horizontal vertical



S0298-AI



S0298-AJ

Ordering key

Type	R	M				
Contacts	5 2 N/O contacts, 16 A		6 3 N/O contacts, 10 A			
Version	0 without test button, without mechanical indicator 3 with test button, without mechanical indicator					
Mounting	2 plain cover, AMP-Faston 187 3 cover with mounting brackets, AMP-Faston 187 5 cover with mounting brackets, AMP-Faston 250 7 PCB version 8 cover with DIN-snap-on attachment, horizontal, AMP-Faston 250 9 cover with DIN-snap-on attachment, vertical, AMP-Faston 250					
Coil	Coil code: please refer to coil versions table, preferred types in bold print					
AMP-Faston 187 = 4.8 x 0.5 mm AMP-Faston 250 = 6.3 x 0.8 mm						

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