

Power PCB Relay RZF

- 1 pole, 16A, 1 form A (NO)
- Coil power 530mW
- Reinforced insulation (EN 61810, 60335, 60730)
- Ambient temperature up to 85°C
- Quick connect terminals for load
- Low mounted height of 17.9mm (27.6mm with quick connects)
- WG version with material in acordance with IEC 60335-1



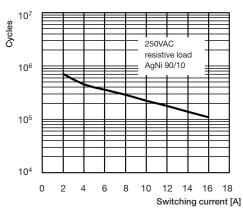
Microwave ovens, water heaters, ovens, industrial equipment.



Technical data of approved types on request.

Contact Data	
Contact arrangement	1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A
Limited making current,	
form A contact, max. 4 s, duty	/ factor 10% 16A
Switching power	4000VA
Contact material	AgNi
Min. recommended contact load	100mA, 5VDC
Frequency of operation, with/with	nout load 360/18000h ⁻¹
Operate/release time max.	8ms/6ms
Bounce time max.	4ms
Electrical endurance	
16A, 250VAC, resistive, 23°C	$100x10^{3}$ ops.
16A, 250VAC, resistive, 85°C	50x10 ³ ops.
Contact ratings 16	A, 250VAC, resistive, 23°C, 100x10 ³ ops.
16	6A, 250VAC, resistive, 85°C, 100x10 ³ ops.

Electrical endurance











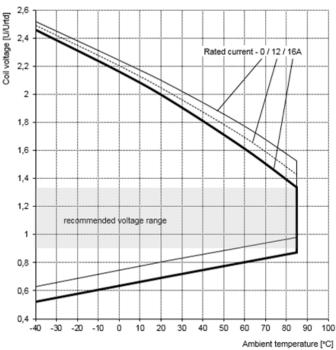
Coil Data		
Coil voltage range	5 to 48VDC	
Coil operative range, IEC 61810	2	
Coil insulation system according UL	class F	

Coil versions, DC coil

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Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage voltage resistance		power
	VDC	VDC	VDC	Ω±10%	mW
005	5	3.5	0.5	47.2	530
006	6	4.2	0.6	66.6	530
009	9	6.3	0.9	152.8	530
012	12	8.4	1.2	271.7	530
018	18	12.6	1.8	611	530
024	24	16.8	2.4	1086	530
048	48	33.6	4.8	4347	530

 $\overline{\mbox{All figures are given for coil without pre-energization, at ambient temperature +23 °C.}$

Coil Operating Range





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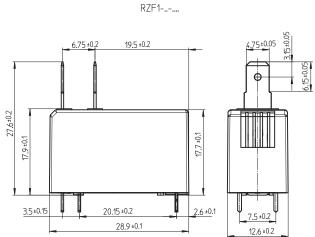
Power PCB Relay RZF (Continued)

Insulation Data		
Initial dielectric strength		
between open contacts	$1000V_{rms}$	
between contact and coil	5000V _{rms}	
Initial surge withstand voltage		
between contact and coil	10000V	
Clearance/creepage		
between contact and coil	≥ 5.5/8mm	
Material group of insulation parts	III	
Tracking index of relay base	PTI 300	

Other Data				
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conte				
refer to the Product Compliance Support Cente				
www.te.co	m/customersupport/rohssupportcenter			
Resistance to heat and fire	According EN 60335-1, par. 30			
Ambient temperature	-40 to 85°C			
Category of environmental protection	1			
IEC 61810	RTII - flux proof			
Vibration resistance (functional), 3 to	100Hz >20g			
Shock resistance (functional)	>10g			
Shock resistance (destrictive)	>100g			
Terminal type	PCB-THT, quick connect for load side			
Weight	11g			
Resistance to soldering heat THT				
IEC 60068-2-20	270°C/10s			
Packaging/unit	tube/20 pcs.			

box/500 pcs.

Dimensions



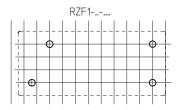
Terminal assignment Bottom view on solder pins

Terminal dimensions: Coil-Terminal: 0.5±0.025 0.5±0.01 x 0.8±0.05 Contact-Terminal:

- All terminal dimensions valid for the untinned terminal
- For the tin-plating of the pins add +0,1mm for the width, thickness or diameter.

PCB layout

Bottom view on solder pins

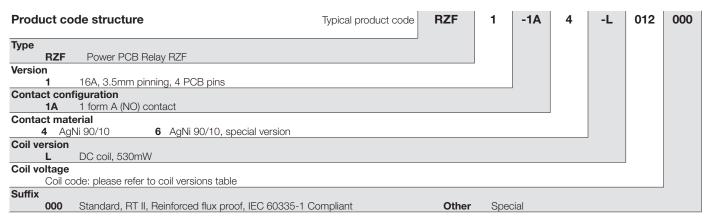


grid pattern: 2.50 to 2,54 hole diameter: ø1.3 +0,1 Bottom view on solder pins dimensions in mm



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Note: May be followed by up to five additional characters for manufacturer internal identification.

Product code	Version	Contact	Cont.material	Coil power	Coil voltage	Sealing	Part number
RZF1-1A4-L005	4 PCB pins	1 form A (NO)	AgNi 90/10 (std.)	530mW	5VDC	Flux proof	1833011-1
RZF1-1A4-L006					6VDC		1833011-2
RZF1-1A4-L009					9VDC		1833011-3
RZF1-1A4-L012					12VDC		1833011-4
RZF1-1A4-L018					18VDC		1833011-5
RZF1-1A4-L024					24VDC		1833011-6
RZF1-1A4-L048					48VDC		1833011-7
RZF1-1A6-L005			AgNi 90/10 (spl.)		5VDC		2-1833011-8
RZF1-1A6-L006					6VDC		1-1833011-5
RZF1-1A6-L009					9VDC		1-1833011-6
RZF1-1A6-L012					12VDC		1-1833011-7
RZF1-1A6-L018					18VDC		1-1833011-8
RZF1-1A6-L024					24VDC		1-1833011-9
RZF1-1A6-L048					48VDC		2-1833011-0



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