

## **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



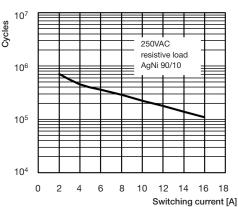
Microwave ovens, water heaters, ovens, industrial equipment.



Technical data of approved types on request.

Contact Data	4.5 (0.10)
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 <sup>-1</sup>
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 <sup>3</sup> ops.
Contact ratings 16	A, 250VAC, resistive, 23°C, 100x10 <sup>3</sup> ops.
16	A, 250VAC, resistive, 85°C, 100x10 <sup>3</sup> ops.

#### **Electrical endurance**











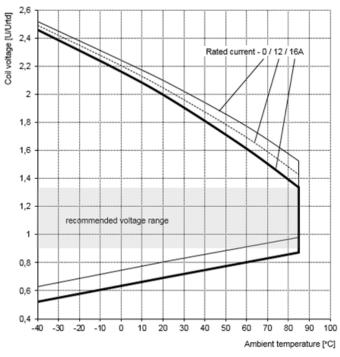
Coil Data		
Coil voltage range	5 to 48VDC	
Coil operative range, IEC 61810	2	
Coil insulation system according UL	class F	

Coil versions, DC coil

	,	••			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage voltage		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

All figures are given for coil without pre-energization, at ambient temperature +23°C.

#### **Coil Operating Range**





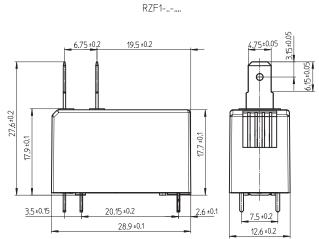
# General Purpose Power PCB Relays

## Power PCB Relay RZF (Continued)

Insulation Data		
Initial dielectric strength		
between open contacts	1000V <sub>rms</sub>	
between contact and coil	5000V <sub>rms</sub>	
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 cont				
refer to the R	Product Compliance Support Center at			
www.te.com	m/customersupport/rohssupportcenter			
Resistance to heat and fire	According EN 60335-1, par. 30			
Ambient temperature	-40 to 85°C			
Category of environmental protection				
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**

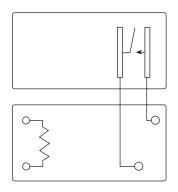


Terminal dimensions: Coil-Terminal:  $0.5 \pm 0.025$ Contact-Terminal:  $0.5 \pm 0.01 \times 0.8 \pm 0.05$ 

- All terminal dimensions valid for the untinned terminal
- For the tin-plating of the pins add  $\pm 0.1$ mm for the width, thickness or diameter.

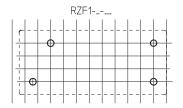
#### Terminal assignment

Bottom view on solder pins



#### PCB layout

Bottom view on solder pins

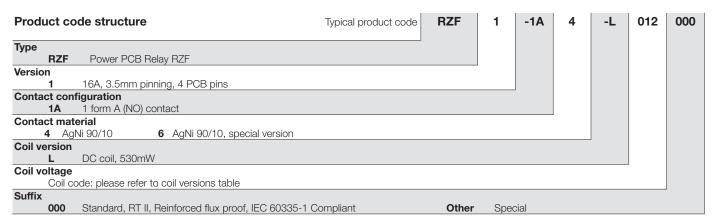


grid pattern: 2.50 to 2,54 hole diameter: Ø1.3 +0,1 Bottom view on solder pins dimensions in mm



## General Purpose Power PCB Relays

## Power PCB Relay RZF (Continued)



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



## General Purpose Power PCB Relays

Power PCB Relay RZF (Continued)

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