

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

Typical applications Microwave ovens, water heaters, ovens, industrial equipment.

Approvals

VDE 40046175, UL E214025, CQC 17002175064

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, d	uty factor 10% 16A
Switching power	4000VA
Contact material	AgNi
Min. recommended contact lo	ad 100mA, 5VDC
Frequency of operation, with/w	vithout 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	16A, 250VAC, resistive, 23°C, 100x10 ³ ops.
	16A, 250VAC, resistive, 85°C, 100x10 ³ ops.
Mechanical endurance	10x10 ⁶ operations

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	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

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

Coil Operating Range



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.15±0.05

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 content
refer to the F	Product Compliance Support Center at
www.te.cor	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.

Terminal assignment

Bottom view on solder pins



Dimensions



Contact-Terminal: 0.5±0.01 x 0.8±0.05

- 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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Power PCB Relay RZF (Continued)

Product code	structure	Typical product code	RZF	1	-1A	4	-L	012	000
Туре									
RZF Po	ower PCB Relay RZF								
Version									
1 16A	v, 3.5mm pinning, 4 PCB pins								
Contact configur	ation								
1A 1 fc	rm A (NO) contact								
Contact material									
4 AgNi 90	/10 6 AgNi 90/10, special version								
Coil version									
L DC	coil, 530mW								
Coil voltage									
Coil code:	please refer to coil versions table								
Suffix									
000 Sta	ndard, RT II, Reinforced flux proof, IEC 60335-1 Co	ompliant	Other	Spec	ial				

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
BZF1-1A6-L048					48VDC		2-1833011-0

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