

Power Relay RF

- 1 pole 16A, 1 form A (NO) or 1 form B (NC) contact
- Coil power 400mW
- **■** Reinforced insulation (EN 61810, 60335, 60730)
- Ambient temperature up to 105°C
- Quick connect terminals for load side
- WG version: Materials in accordance to IEC 60335-1

Typical applications

Oven control, electric heating, power supplies, air conditioning, microwave ovens, hobs

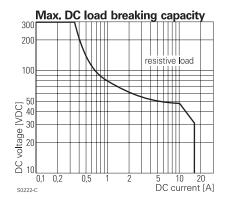
Approvals
VDE REGNr. A652, UL E214025, CQC 05001014817
Technical data of approved types on request

Contact Data				
Contact arrangement	1 form A (NO) or 1 form B (NC)			
Rated voltage	250VAC			
Max. switching voltage	400VAC			
Rated current	16A			
Limiting making current, form A contact,				
max. 4s, duty factor 10 %	25A			
Breaking capacity max.	4000VA			
Contact material	AgNi 90/10			
Min. recommended contact load	12VAC at 500mA			
Frequency of operation, with/without loa	ad 360/72000h ⁻¹			
Operate/release time max.	11/7ms			
Bounce time max., form A/form B	4/4ms			

Contact ratings

Contact ratings			
Туре	Contact	Load	Cycles
IEC 61810			
RF334; RFH34	A (NO)	16A, 250VAC resistive, 85°C	100x10 ³
RF334; RFH34	A (NO)	11A, 250VAC resistive, 85°C	250x10 ³
RF334; RFH34	A (NO)	20A, 250VAC resistive, 85°C	25x10 ³
RF334; RFH34	A (NO)	25A, 250VAC resistive, 70°C	15x10 ³
RF354; RFH54	B (NC)	16A, 250VAC resistive, 85°C	100x10 ³
RF354; RFH54	B (NC)	20A, 250VAC resistive, 85°C	50x10 ³
RF354; RFH54	B (NC)	25A, 250VAC resistive, 70°C	20x10 ³
RFH34	A (NO)	16A, 250VAC resistive, 105°C	100x10 ³
RFH34	A (NO)	11A, 250VAC resistive, 105°C	250x10 ³
RFH34	A (NO)	18.5A, 250VAC resistive, 105°C	20x10 ³
RFH34	A (NO)	10A, 400VAC resistive, 105°C	150x10 ³

Mechanical endurance >10x10⁶ operations

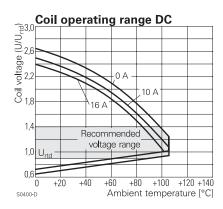




Coil Data		
Coil voltage range	5 to 60VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL1446	class F	

Coil vers	sions, DC co	il			
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	62	403
006	6	4.2	0.6	90	400
009	9	6.3	0.9	203	399
012	12	8.4	1.2	360	400
024	24	16.8	2.4	1440	400
048	48	33.6	4.8	5520	417
060	60	42.0	6.0	8570	420

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



Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	$4000V_{rms}$	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	IIIa	
Tracking index of relay base	PTI250V	



Power Relay RF (Continued)

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

according EN 60335-1, par.30

RTII - flux proof1)

Resistance to heat and fire WG version

Ambient temperature -40 to 85°C RF3 **RFH** -40 to 105°C

Category of environmental protection

IEC 61810

Vibration resistance (functional), form A/form B, 55 to 500Hz 20/5g

Shock resistance (destructive) 100g

Terminal type PCB-THT, quick connect for load side Weight 20g

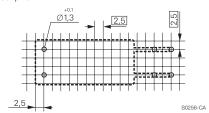
Resistance to soldering heat THT, IEC 60068-2-20 flux proof version

270°C/10s wash tight version 260°C/5s tray/30 pcs., box/300 pcs. Packaging/unit

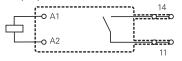
1) RTIII - wash tight version on request

PCB layout / terminal assignment

Bottom view on solder pins



1 form A (NO) contact

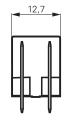


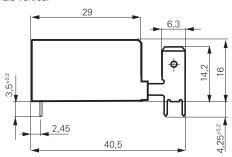
1 form B (NC) contact



Dimensions

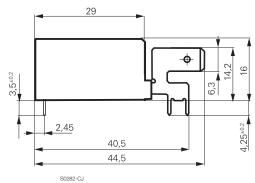
Quick connect terminals vertical





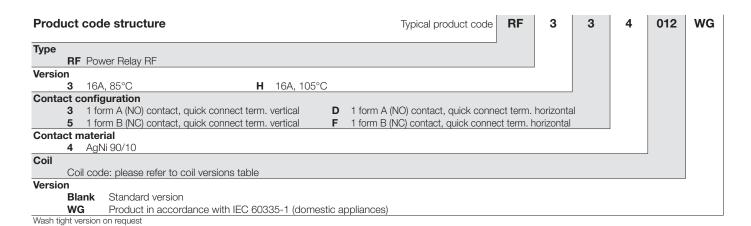
S0282-CI

Quick connect terminals horizontal





Power Relay RF (Continued)



Product code	Contact arrangement	Version	Coil	Version	Part number
RF334012	1 form A (NO)	85°C	12VDC	Standard	8-1415513-1
RFH34009WG	contact	105°C	9VDC	IFC60335-1 compliant	4-1415520-1

RFH34012WG 5-1415520-1 12VDC RFH34024 1415511-1 24VDC Standard RFH54006WG 1 form B (NC) IEC60335-1 compliant 1415521-1 6VDC RFH54024WG 3-1415521-1 24VDC contact RFHD4012WG 1 form A (NO) 12VDC 9-1415521-1

This list represents the most common types and does not show all variants covered by this datasheet. Other types on request