

## **Electronics**

# SCHRACK

## **Power Relay RF**

- 1 pole 16 A, 1 NO or 1 NC contact
- Switching capacity 4000 VA
- Coil power 400 mW
- **■** 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
- RoHS compliant (Directive 2002/95/EC)

### **Applications**

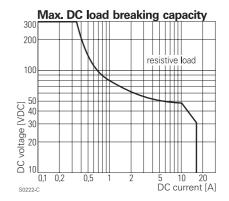
Oven control, electric heating, power supplies, air conditioning, microwares, hobs



F0273-A

## **Approvals**

Contact data Contact configuration 1NO or 1NC Contact set single contact micro disconnection Type of interruption Rated current 16 A 240/400 VAC Rated voltage / max.switching voltage AC Maximum breaking capacity AC 4000 VA 25 A Limiting making capacity, max 4 s, duty factor 10% AgNi90/10 Contact material 12VAC / 500mA 1x10<sup>6</sup> cycles Minimum contact load Mechanical endurance Rated frequency of operation with / without load 6 / 1200 min



**Contact ratings** 

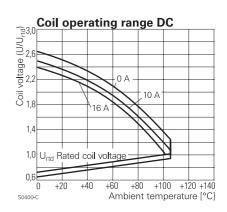
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Туре	Load	Cycles
RFH34	16 A, 250 VAC, 105°C	50 x10 <sup>3</sup>
RFH34	11 A 400 VAC 105°C	100 x10 <sup>3</sup>

Coil data	
Rated coil voltage DC coil	560 VDC
Coil power DC coil	typ. 400 mW
Operative range	2
Coil insulation system according UL1446	Class F

Coil versions, DC-coil

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Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDC	VDČ	Ohm	mW
005	5	3.5	0.5	62±10%	403
006	6	4.2	0.6	90±10%	400
009	9	6.3	0.9	203±10%	399
012	12	8.4	1.2	360±10%	400
024	24	16.8	2.4	1440±10%	400
048	48	33.6	4.8	5520±10%	417
060	60	42.0	6.0	8570±10%	420

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request







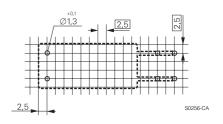


## Power Relay RF (Continued)

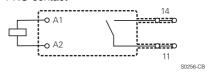
Insulation	
Dielectric strength coil-contact circuit	4000 V <sub>rms</sub>
open contact circuit	1500 V <sub>rms</sub>
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm
Material group of insulation parts	≥ Illa
Tracking index of relay base	PTI 250
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230/400 V
Overvoltage category	III

Other data			
RoHS - Directive 2002/95/EC	compliant		
Flammability class according to UL94	V-0		
For WG version: GWFI to IEC 60695-2-12	>850°C		
GWIT to IEC 60695-2-13	>775°C		
Ambient temperature range	-40+105°C		
Operate- / release time	typ.10 ms		
Bounce time NO / NC contact	typ. 5 ms		
Vibration resistance (function) NO / NC contact (	55500Hz) 20 / 5 ms		
Shock resistance (destruction)	100 g		
Category of protection	RTII - flux proof; RTIII - wash tight		
Mounting	pcb		
Resistance to soldering heat flux-proof version	270°C / 10 s		
wash-tight version	260°C / 5 s		
Relay weight	20 g		
Packaging unit	150 / 300 pcs		

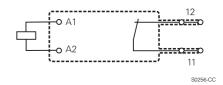
# **PCB layout / terminal assignment** Bottom view on solder pins



### 1 NO contact

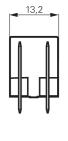


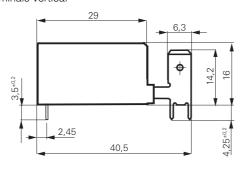
#### 1 NC contact



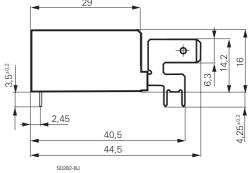
### **Dimensions**

### Quick connect terminals vertical





Quick connect terminals horizontal









## Power Relay RF (Continued)

Product key	R F
Туре	
Version	
<b>3</b> 16 A, 85°C <b>H</b>	16 A, 105°C
Contact configuration	
3 1 NO contact, quick connect term. vertical 5	1 NC contact, quick connect term. vertical
D 1 NO contact, quick connect term. horizontal F	1 NC contact, quick connect term. horizontal
Contact material	
<b>4</b> AgNi 90/10	
Coil	
Coil code: please refer to coil versions table	
Version	
Blank Standard version	
WG Product in accordance with IEC 60335-1	(domestic appliances)

Wash tight version on request

Product key	Version	Configuration	Cont. material	Coil	Part number
RF334006	16 A	1 NO contact	AgNi 90/10	6 VDC	5-1415513-1
RF334009	85°C	quick connect term.	_	9 VDC	7-1415513-1
RF334012		vertical		12 VDC	8-1415513-1
RF334024				24 VDC	9-1415513-1
RF354006		1 NC contact		6 VDC	2-1415514-1
RF354009		quick connect term.		9 VDC	3-1415514-1
RF354012		vertical		12 VDC	4-1415514-1
RF354024				24 VDC	5-1415514-1
RFH34006	16 A	1 NO contact		6 VDC	8-1415510-1
RFH34009	105°C	quick connect term.		9 VDC	9-1415510-1
RFH34012		vertical		12 VDC	6-1415510-1
RFH34024				24 VDC	0-1415511-1
RFH54006		1 NC contact		6 VDC	4-1415511-1
RFH54009		quick connect term.		9 VDC	5-1415511-1
RFH54012		vertical		12 VDC	6-1415511-1
RFH54024				24 VDC	7-1415511-1
RF334006WG	16 A	1 NO contact		6 VDC	5-1415517-1
RF334009WG	85°C	quick connect term.		9 VDC	6-1415517-1
RF334012WG	materials according	vertical		12 VDC	7-1415517-1
RF334024WG	IEC 60335-1			24 VDC	8-1415517-1
RF354006WG		1 NC contact		6 VDC	2-1415518-1
RF354012WG		quick connect term.		9 VDC	4-1415518-1
RF354024WG		vertical		12 VDC	5-1415518-1
RF354048WG				24 VDC	6-1415518-1
RFH34006WG	16 A	1 NO contact		6 VDC	3-1415520-1
RFH34009WG	105°C	quick connect term.		9 VDC	4-1415520-1
RFH34012WG	materials according	vertical		12 VDC	5-1415520-1
RFH34024WG	IEC 60335-1			24 VDC	6-1415520-1
RFH54006WG		1 NC contact		6 VDC	0-1415521-1
RFH54009WG		quick connect term.		9 VDC	1-1415521-1
RFH54012WG		vertical		12 VDC	2-1415521-1
RFH54024WG				24 VDC	3-1415521-1