

ISKRA 14 PIN 4PCO, 5 AMP RATED RELAYS

TYPES: TRP3145/AC VOLTS, TRP3140/DC VOLTS

PRODUCT
GROUP
H

FEATURES

- LED indication
- Flag indication
- Test button
- Locking facility
- DC coils with integral diode protection
- Optional gold flashed contacts
- CE marked
- VDE approved
- UL & CSA approved

DESCRIPTION & MODE OF OPERATION

A high quality range of CE marked standard pin out 4PCO 14 pin plug in relays, nominally rated at 5 Amps/250VAC AC1. The relays benefit from every customer required option as standard, namely both mechanical and electrical indication via a mechanical flag and a high intensity LED. DC coil relays also have included within the relay a protection diode fitted across the coil as standard. The relays can be manually tested by a momentary action push button, a lever can then be twisted to give a locking facility. Standard contact material is silver but on request the relays are available with gold flashed contacts for long term assurance of low level signal switching (suffix part number GF). To differentiate between AC and DC coils in the same installation the push button is coloured red for AC coils and blue for DC coils. Coil voltages available are from 6VDC to 220VDC and 6VAC to 230VAC. Clearly marked on the relay case are the connection details and the CE mark.

IMPORTANT NOTE

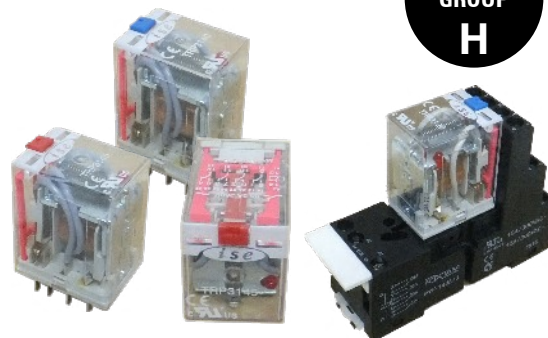
With regards coil connection on DC coil relays which have both a protection diode and LED fitted as standard, coil polarity matters (+A1, 13) (-A2, 14).

COIL DATA

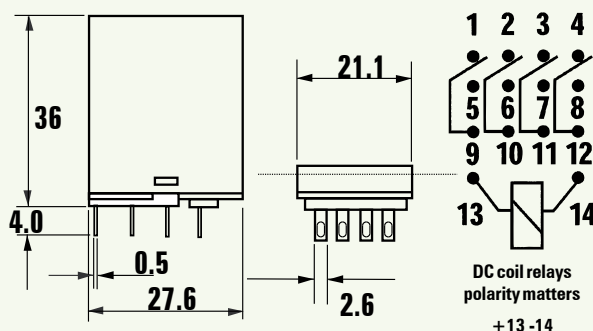
Coil rated voltage	coil resistance at 20°C		Operative voltage range at 20°C		
Un(V)DC/AC	DC Rn(Ω) ± 10%	AC	Operate Uop ≥ (V)	Umax DC ≥ (V)	Umax AC ≥ (V)
6	40	12	4.8	9.6	8.3
12	160	49	9.6	19.2	16.7
24	650	192	19.2	38.7	33.5
48	2600	785	38.4	77.5	66.9
60	4000	1240	48	96	83
110	13500	3880	88	176	153
220	53000	17400	176	350	306
230	58000	18200	184	366	320

GENERAL DATA

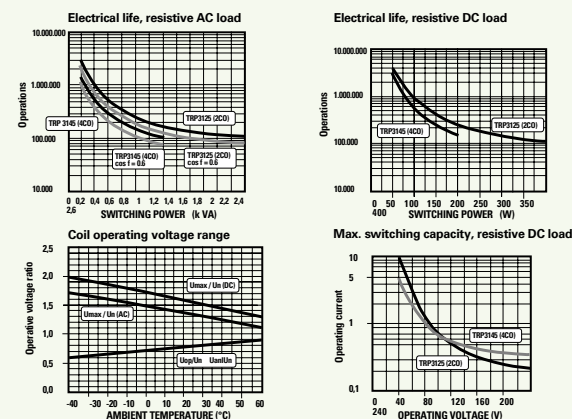
Rated Power Pull In:	DC1W; AC 1.2VA
Rated Power in Operation:	DC 0.6W; AC 0.7VA
Max Coil Temperature:	155°C
Test voltage (1 min.) contact-coil:	≥ 2kV _{rms} 50Hz
Contact-contact:	≥ 1kV _{rms} 50Hz
Between-contact 4CO:	≥ 1kV _{rms} 50Hz
Operate time at Un:	≤ 15 ms
Release time:	≤ 14 ms
Bounce time:	≤ 5 ms
Insulation resistance (500VDC):	> 10 MΩ
Vibration resistance (10-50Hz):	3 gn
Shock resistance (11 ms) functional:	20 gn
Shock resistance (11 ms) destructive:	100 gn
Ambient temperature for operating:	-25°C to + 60°C
Ambient temperature for storage:	-40°C to + 85°C
Protection degree:	IP 50, IEC 529
Mounting position:	As desired
Relay weight:	35g



DIMENSIONS



PERFORMANCE GRAPHS



CONTACT DATA

Contact form:	TRP314x(4PCO)
Contact material:	AgCd010*
Rated current:	5A
Max. switch-on current (4 s, 10% duty cycle):	10A
Max. operating voltage:	250VAC, VDC
Max. switching power:	1250VA 200W
Min switching load:	6VDC, 100mA
Contact resistance:	≤ 100, mW
Max. operating Frequency:	1200 operat./h at rated load (4 CO) 30000 operat./h at min. load
Mechanical life:	> 2 x 10 ⁷ operations
Electrical life:	see graphs

*GOLD FLASHED CONTACTS AVAILABLE ON REQUEST

ORDERING INFORMATION

TYPE	COIL VOLTAGE
TRP3145	6VAC, 12VAC, 24VAC, 48VAC, 60VAC, 110VAC, 230VAC
TRP3140	6VDC, 12VDC, 24VDC, 48VDC, 60VDC, 110VDC, 220VDC

ADD SUFFIX "GF" AFTER PART NUMBER FOR GOLD FLASHED CONTACTS
Sockets see page 105 for full details.