# Product SPECIFICATION SHEET

ACDC DYNAMICS
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## TRK22




- Rated coil power 0.2 W, 0.3 W, 0.4 W, 0.55 W
- Max. contact load 3 A, 230 Vac, 220 Vdc
- Two change-over, twin cross contacts
- Direct instalation on PCB
- UL approval
- Ambient temperature up to +70°
- Washable version Qc/2
- Non-flammable material V-0
- Plastic bars packing

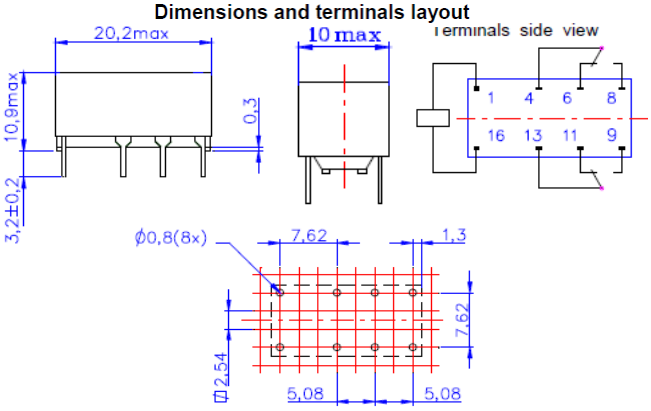
### Technical data

Relay TRK 22 is a neutral, monostable, electromagnetic relay for DC coil energizing with two contact systems. Small dimensions and low self-heating of this relays enable high density of electronics components on PC board.
As a switching element with ability of galvanic separation it is designed to control medium power devices in telecommunication, data processing, computer pheripherals, measuring equipment and for general purposes.

### Contact data

| Relay type | TRK2233 | TRK2243 |
|---|---|---|
| Contact form | 2 Change-over | |
| Contact type | twin cross contacts | |
| Contact material | AgPd30 + AuAg8 | AgNi10 + AuAg8 |
| Rated current | 2 A | 3 A |
| Max. operating voltage | 230 $V_{ac}$, 220 $V_{dc}$ | |
| Max.switching power | 120 VA, 60 W (see diagram) | |
| Min.switching load | 10 mA, 10 $mV_{dc}$, | |
| Contact resistance | ≤ 50 mΩ (10 mA,30$mV_{dc}$ )- new relay | |
| Max.operating frequency | 1800 / h - rated load<br>36000 / h - min. load | |
| Capacitance cont.-cont. | ≤ 1,5 pF | |
| Mechanical life | ≥ 2 X $10^7$ operations | |
| Electrical life | See diagram<br>CO contact at 70°C | |

### Dimensions and terminals layout




### Coil data for energizing at 20°C

| | |
|---|---|
| Rated power: | |
| high sensitive - H | abt. 0.2 W |
| sensitive - F | abt. 0.3 W |
| standard – S | abt. 0.4 W |
| standard | abt. 0.55 W |
| Max.coil temperature: | 155°C |
| Thermal coil resistance: | |
| high sensitive - H | abt.250 K/W |
| sensitive - F | abt. 200 K/W |
| standard | abt. 150 K/W |
| Operate voltage: (cold coil) | |
| high sensitive - H | Uop ≤ 78% Un |
| sensitive - F | Uop ≤ 76% Un |
| standard | Uop ≤ 70% Un |
| Release voltage: | Ure ≥ 10% Un |
| Operative range: | 1, IEC61810 - 1 |

### Other data

| | |
|---|---|
| Test voltage (1 min.): | |
| contact - coil | ≥ 1000 Vrms, 50 Hz |
| contact - contact | ≥ 750 Vrms, 50 Hz |
| between contact systems | ≥ 1500 Vrms, 50 Hz |
| Impulse voltage test (1,2/50 μs): | |
| contact - coil | ≥ 2000 Vimp |
| Operate time at Un: | see diagram |
| Release time: | abt. 3 ms |
| Bouncing time: | abt. 3 ms - make, abt. 8 ms - break |
| Insulation resistance (500 VDC): | > $10^3$ MΩ |
| Vibrations resistance (10-200Hz): | 10 $g_n$ |
| Shock resistance (11 ms) | |
| functional: | 10 $g_n$ |
| destructive: | 100 $g_n$ |
| Ambient temperature | |
| for operating: | - 40°C to + 70°C |
| for storage: | - 40°C to + 85°C |
| Protection degree: | IP 67, IEC 529 |
| Seal test: (1min): | Qc/2, IEC 60068-2-17 |
| Flammability class: | V-0, UL 94 |
| Cleaning: ultrasonic cleaning over 30s is not recommended | |
| Mounting position: | optional |
| Relay weight: | abt. 5 g |


**BRANCH CONTACT DETAILS**

| | |
|---|---|
| Johannesburg | 010 202 3300 |
| Germiston | 011 418 9600 |
| Cape Town | 021 510 0710 |
| Pinetown | 031 700 4215 |
| Riverhorse | 031 492 4800 |

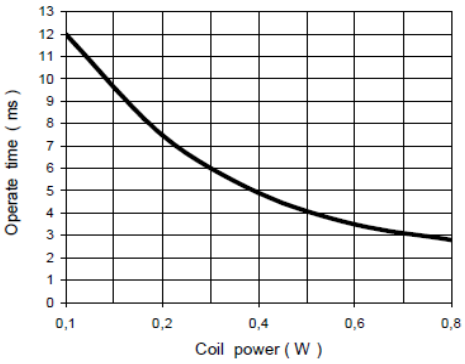
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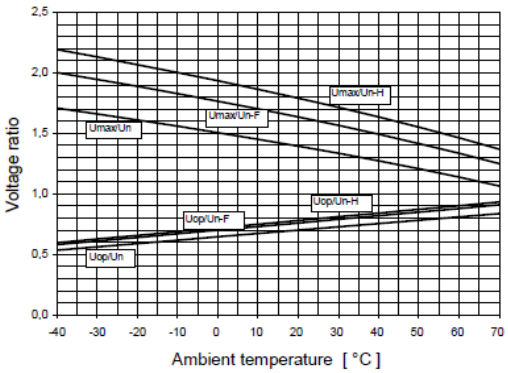
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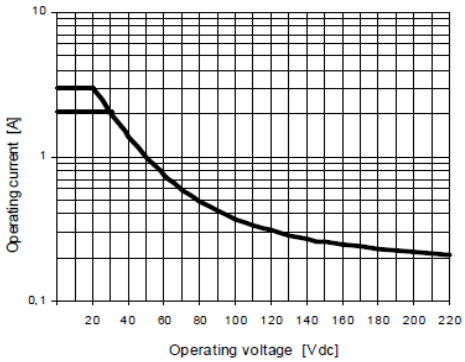
## Max. operating time at Un



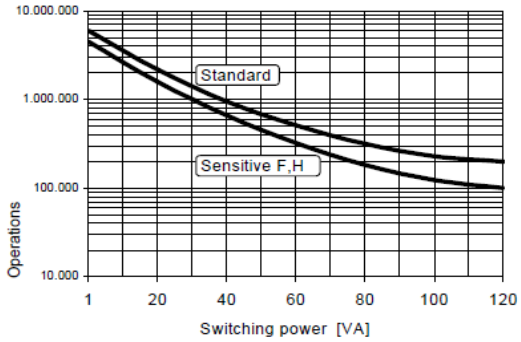

## Operative coil voltage range



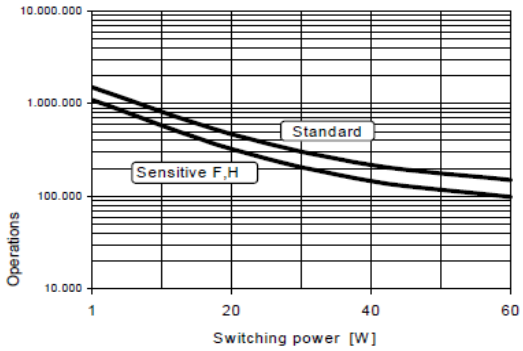

## Max. switching capacity at resistive DC load




## Electrical life at resistive AC load




## Electrical life at resistive DC load





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