

## TSR19

Motor protection | PTC | Clixon | 24 ... 48 V UC | 230 V AC

## Power supply

Nominal voltage	24 ... 48 V UC	230 V AC
Operating voltage range	0.85 ... 1.15 U <sub>N</sub>	
Power consumption AC/DC	5 VA / 5 W	
Rated frequency	50 ... 60 Hz	

## Measuring circuit

Measured parameters	Ω
Monitoring functions	over, sensor ground fault, sensor break
Resistance, OK range	100 ... 1800 Ω
Clixon, OK range	0 ... 1800 Ω
Failure threshold	≤ 50 Ω, ≥ 2250 Ω, ≤ 1 kΩ (to ground)
Alarm delay	2.5 s

## Main circuit

Number of contacts	1 + 1 C0
Contact Material	AgNi
Rated voltage	250 V
Rated current	6 A
Minimum load	10 mA, 12 V
Rated load DC	fig. 2
Rated load AC-1	1250 VA
Mechanical endurance (cycles)	3 x 10 <sup>7</sup>
Electrical endurance at rated load AC-1 (cycles)	fig. 3

## Insulation

Rated test voltage measuring circuit / power supply	2 kV rms / 1 min
Rated test voltage measuring circuit / main circuit	2 kV rms / 1 min
Rated test voltage main circuit / power supply	2 kV rms / 1 min
Rated test voltage main / main circuit	2 kV rms / 1 min
Rated test voltage open contact	1 kV rms / 1 min
Pollution degree	2
Overvoltage category	III

## General data

Ambient temperature storage	-40 ... 85 °C
Ambient temperature operation	-25 ... 60 °C
Module width	fig. 4
Weight	125 g
Protection degree	IP 20
Housing material	PC

## Product references

Types	Product reference	230	24-48
Motor protection, AC supply	TSR19/AC...V	✓	
Motor protection, UC supply	TSR19/UC...V		✓

"..." list control circuit voltage to complete product references.

Other voltages on request. Please contact support@comatreleco.com.

## Accessories

Socket	S3-M
Retaining clip	HF-24
Transparent front cover	FS-23
Front panel mounting set	FZ-23



fig. 1. Wiring diagram

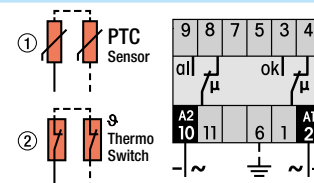


fig. 2. DC load limit curve

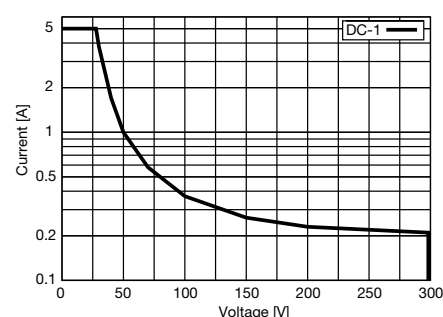


fig. 3. AC voltage endurance

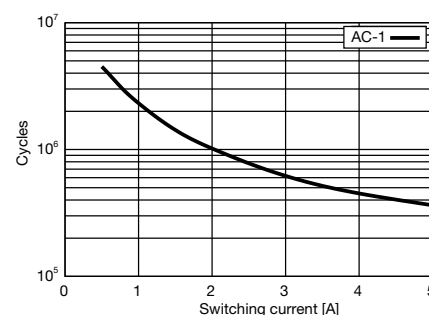
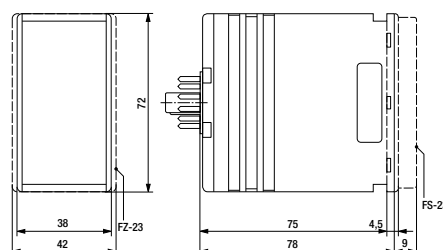


fig. 4. Dimensions (mm)



## Standards and approvals

Standards IEC/EN 60947

Approvals

