

**UST100/OST100 series**

**UNDER AND OVER SPEED/FREQUENCY TRIPS  
SINGLE PHASE AC INPUT, DC POWERED**

A range of DC powered, relay-based devices which monitor the frequency of a single phase and neutral AC supply and trip at set limits. The units are typically used to protect power generators and their loads during high or low speed/frequency conditions.

Each trip contains a two pole change-over relay configured to be energised at normal frequencies. The trip frequency is normally factory set to customer order, but may be adjusted if required by use of a multi-turn potentiometer on the case top.

**Under speed trip** relays de-energise if the AC input frequency falls below the set level. The relay automatically re-energises if the frequency returns above the set level.

**Over speed trip** relays de-energise if the AC input frequency rises above the set level. The relay automatically re-energises if the frequency falls below the set level.

The pin selectable 12V or 24V DC power supply allows the UST and OST to operate on total loss of AC input signal.

All UST and OST units are housed in an 11 pin plug-in case, designed for use with separate DIN rail or surface mounted bases.

Standard units are:-

- UST100** Under speed trip relay, 110 VAC input
- UST101** Under speed trip relay, 230 VAC input
- OST100** Over speed trip relay, 110 VAC input
- OST101** Over speed trip relay, 230 VAC input

**When ordering, please specify:-**

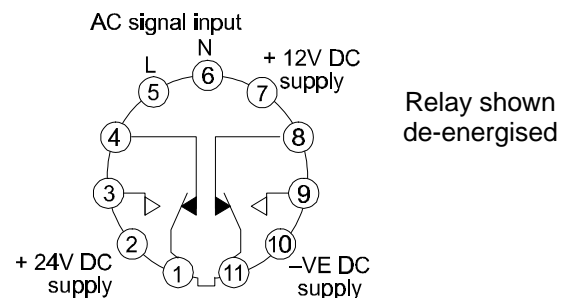
- a) Product type number (UST or OST)
- b) Nominal input/supply voltage (110 or 230 VAC)
- c) Trip frequency (e.g. 45 Hz., 56Hz, etc)



**Product Specifications**

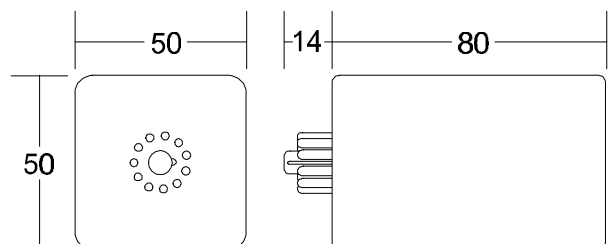
<b>DC power supply:</b>	
operating voltage range	12V pin: 9 - 15 VDC 24V pin: 18 - 30 VDC
power consumption	< 2 W
<b>AC input:</b>	
voltage range	UST/OST100: 50 - 150 VAC UST/OST101: 150 - 250 VAC
<b>Trip point::</b>	
trip frequency	factory set, 40 - 70 Hz.
trip temperature drift	< 0.01% per °C
<b>Relay output:</b> <i>(all ratings for resistive load)</i>	
contact type	volt free DPCO contacts
current rating	5 A max. @ 240 V AC1
rated operations	2 x 10 <sup>5</sup> operations
<b>General:</b>	
operating temperature	-10 to +55°C
weight	approx. 150 g
electromagnetic compatibility	to EN50081-1/EN50082-1

**Connection**



Relay shown de-energised

**Dimensions**



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