

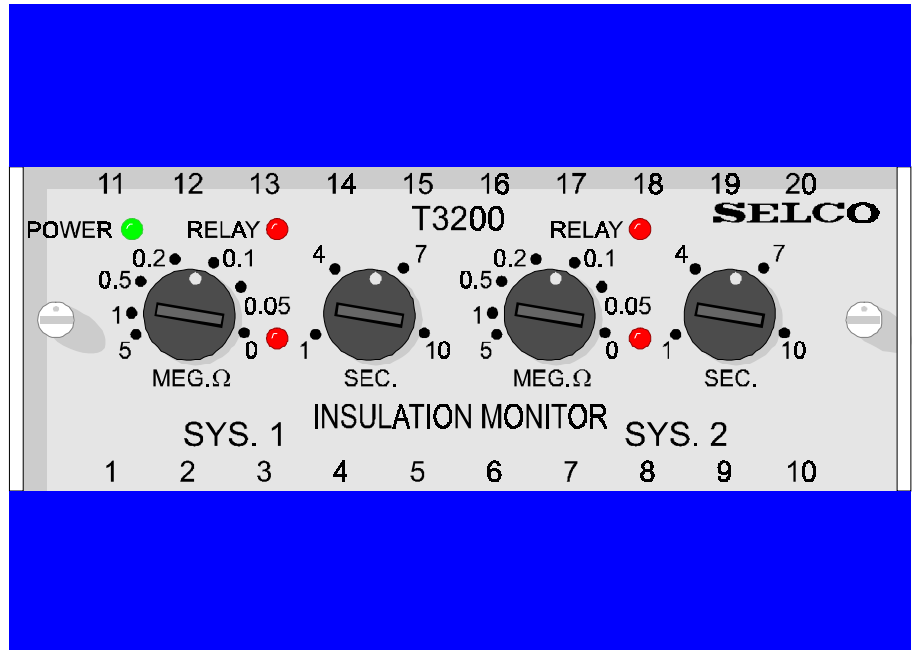
Double insulation monitoring relay.
 Insulation level : 0-5 Mohm
 Time delay : 1-10 sec.
 Normally deactivated output relays

Main features

- ★ Cost effective and highly reliable design.
- ★ Price competitive due to combined functions.
- ★ Tropicalized design.
- ★ 5 LED's indicating: LED 1 power, LED 2 insulation limit passed system 1, LED 3 relay system 1, LED 4 insulation limit passed system 2 and LED 5 relay system 2.
- ★ Many variations.
- ★ 50 hours burn-in before final test.
- ★ Compact design with small dimensions H x W x D = 70 x 100 x 115 mm.
- ★ Same type for 50 and 60 Hz.
- ★ Accepts high supply voltage variations: +10 -20%.
- ★ Operates in ambient temperature from -20°C to +70°C.
- ★ Designed in accordance with requirements of all major classification societies.
- ★ Noise and radio interference immunity according to IEC 255
- ★ Output contact ratings:
 380 V AC, 2A, 250 VA
 110 V DC, 2A, 100 W
- ★ Transient suppression on all inputs.
- ★ Flame retardant enclosure.
- ★ DIN rail mounting.

Application

The Insulation Monitor T3200 is intended for continuous insulation monitoring on three-phased insulated networks on board ships. The relay monitors continuously two systems galvanically separated



from each other, e.g. the busbar and the lighting system, or two busbar systems. The unit features two output relays for alarm purposes and two analogue outputs for instrument reading. The instruments are available from Selco as standard sized switchboard instruments.

Function

The electronic measuring circuit will for each insulation system (I and II) compare the measured insulation value to the preset value of the relay. An insulation drop to a value lower than the preset value will cause activation of the corresponding output relay resulting in alarm signals to be obtained between terminals 6 and 7 or 9 and 10 (system I or system II respectively).

Consequently, the output relays will be deactivated when the insulation values are satisfactory, while insulation values lower than the preset value will cause activation of the output relays. This means that power supply interruptions will not result in alarm signals as the output relays normally are deactivated.

The alarm signal can be delayed by means of a presetting function on the front of the unit. In this way only continuous earth faults will cause alarm signals.

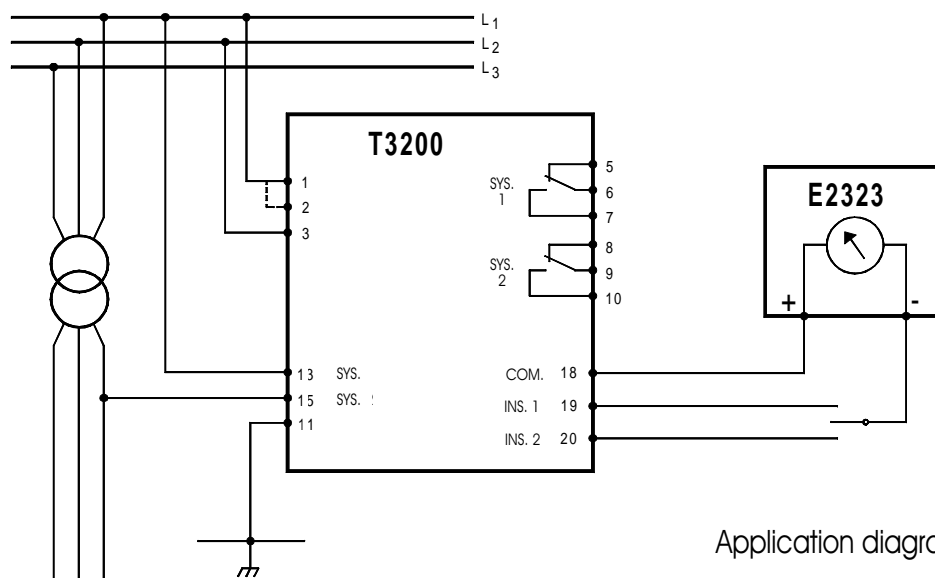
The instrument output has been adapted for connection of megohmmeter which indicates the actual insulation level either by means of two instrument simultaneously indicating for both insulation systems (I and II), or by means of one instrument which via a change-over switch can be connected to the two instrument outputs.

NOTE: Operates only on AC installations and insulation faults in connection with semi conductors can cause errors in measurements.

Installation

The measuring circuits for the two insulation systems I and II are connected to the network as shown by figure on page 2.

The supply voltage is connected to terminal 1 and 3 to suit supply source.



Specifications

- Voltage tolerance : +10 -20 % of U_N
- Power consumption : Max. 2VA
- Presetting : 0-5 M Ohm
- Instrument scale : 0-5 M Ohm
- Frequency range : 45 to 65 Hz
- Temperature range : -20 to +70°C / -4 to 158°F
- Accuracy : ± 5 % (of preset value)
- Contact output : a.c. 380V, 2A, 250VA
: d.c. 110V, 2A, 100W
- Instrument output : Full scale 0-1 mA
- Instrument resistance : Max. 100 Ohm
- Enclosure material : Polycarbonate, Flame retardant.
- Dielectric test : 2500V, 50Hz.
- Weight : 0.5 kg. / 1.10Lb
- Dimensions : 70 x 100 x 115mm. (H x W x D)
: 2.76 x 3.94 x 4.53" (H x W x D)
- Measuring Voltage : 15V DC
- Internal Resistance : 200 K Ohm

Type Selection Table

Type	Terminal	
	1-3	2-3
T3200-00	240V	220V
T3200-01	440V	380V
T3200-02	480V	415V
T3200-03	24V DC	with 24V DC/ DC converter
T3200-04	110V	100V
T3200-06	127V	120V

Other voltages and frequencies on request.
Standard frequency is 50/60Hz.

Accessories

E2323-00-00 Megohmmeter
96x96 mm weight: 0,490 Kg.

E2324-00-00 Kiloohmmeter
96x96 mm weight: 0,490 Kg.

E2333-00-00 Megohmmeter
144x144 mm weight: 0,790 Kg.

E2343-00-00 Megohmmeter,
circular scale, 96x96 mm
weight: 0,490 Kg.

