

• 35,0 mm

FEATURES

- LED guidance for easy installation
- · Two ranges for precise setting
- Red and green LEDS indicate the state of the input and the relay



AC CURRENT RELAY WITH VOLTAGE COMPENSATED SETPOINT

Type: IUAB

Description:

The current relay IUAB is designed for monitoring up to 10 parallel connected equal loads. As soon as one of the loads is defective, and no longer draws current, the relay will give an alarm by dropping out.

If the load is resistive or in general dependent on the supply voltage, the load current will vary with the actual voltage. A supply voltage change of -10% will cause the load current to drop 10%, or the same as if one of the loads was lost at normal supply voltage. Commonly used current relays would send a false alarm as this is still an OK condition. With this relay the current set point is related to the actual supply voltage and the set point will vary with the same percentage as the supply voltage change. By using this set point compensation it is possible, without getting false alarms, to monitor load changes down to 10% or detect one defect load out of ten equal loads.

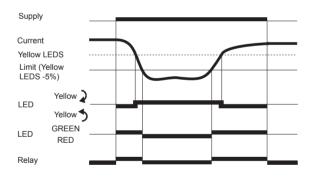
In order to simplify the installation the IUAB has two yellow LED's suggesting the direction of the adjustment on the current setting spindle. When the two yellow LED's are equally lit the current set point is precisely 5% under the actual current. This means that the unit is adjusted to give an alarm if the current drops by 5% from the current value.

The current setting on the front refers to a current set point at nominal voltage.

The standard unit is made with a 1:1 voltage current relation as for resistive loads. If the relation is different from this or even inverse as for switch mode supplies used in e.g. fluorescent tubes, the voltage current relation can be modified to the actual application.

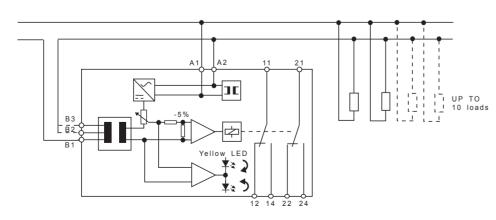
Application: Monitoring e.g. heaters and lamps.

FUNCTION DIAGRAM



CONNECTION DIAGRAM

Rail mounting



Web:

Mail:

SPECIFICATIONS

ORDERING INFORMATION

INPUT

Input Range: B1-B2 B1-B3

AC frequency range Max. continuous input Input resistance AC current

0,2 - 1A 0,5 - 2,5A

45 to 440 Hz

Fixed 2 sec.

1,5 x I range 0,05W / I range

Fixed 1% of setting

Approx. 100 msec. Typ. ± 0.02 % / °C

Relay, 2 C/O 6 A, 250 VAC , 1500 W

AC voltage

45 to 440 Hz 4 VA, 2 W

Coil to relay contacts Pole to pole 0.19 kg in 35 mm. housing

30 Million operations 0 to 20 mA at max. setpoint range

 24 V (From 20
 to
 28 V)

 110 V (From 85
 to
 121 V)

 230 V (From 187
 to
 264 V)

 400 V (From 323
 to
 484 V)

 460 V (From 374
 to
 506 V)

- 25 °C to + 55 °C ambient Up to 90 % RH non-condensing Input to supply 4000 VAC

4000 VAC 2500 VAC

Setpoint Range

Power up time

Differential

PERFORMANCE PARAMETERS

TIMING Response time ELECTRICAL Temp. dependence

OUTPUT Contact rating Mechanical life DC output

SUPPLY

AC supply range with transformer

AC frequency range Power consumption

GENERAL Temperature range Humidity Dielectric test voltage

Weight

CE

	International Standards
EMC directive 89/336:	EN50081 - Emission
	EN50082 - Immunity
Low voltage directive 73/23:	EN60255 - Electrical Relays

EXAMPLE:			IUAB B 230 D A 3
TYPE Multifunction current relay		IUAB	
SUPPLY			
AC with transformer		В	
SUPPLY VOLTAGE			
From 20 to 28 VAC		024	
From 85 to 127 VAC		110	
From 187 to 264 VAC		230	
From 323 to 457 VAC		400	
From 374 to 506 VAC		460	
ADJUSTMENT			
Trimpot and dipswitch adj.		D	
HOUSING			
Rail mounting.(internal transformer)		A	
SIZE			
35 mm.	2 C/O	3	
CODE			
Code end		CI	