

AC CURRENT DETECTING RELAY WITH DELAYED DROP OUT

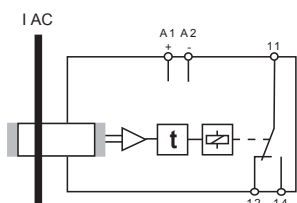
Type: IADA

FEATURES

- * **Cost effective solution**
- * **Minimize energy consumption**
- * **Minimize environmental noise**
- * **Compact size**
- * **Direct powered from the starter battery**

CONNECTION DIAGRAM

Rail mounting



Description:

The IADA AC current relay is a miniaturized and cost effective solution for monitoring the presence of an AC current. The unit detects current from 50 mA and above and accepts continuous currents only limited by the cable size through the CT in the front.

Operation:

When powered from either 12 or 24 V DC the relay will pull when the wire through the CT conducts an AC current of more than 50 mA. When the current drops down below 40 mA the relay will drop out after the set delay of up to 60 sec. has expired.

Application:

Automatic idle and run control of small petrol or diesel motor powered generator sets. When the motor is idling, the output voltage will only be a fraction of the nominal voltage and not able to feed the connected units. The generator set will run with a low power consumption and low noise. But as soon as a connected load is switched on, a small load current will be detected by the IADA and the motor will be switched from idling to run in order to supply the power for the load. In order to minimize the number of switches the IADA comes with an adjustable drop out delay. When the load is disconnected the build-in timer in the IADA starts to count down and after the set time the relay will drop out and the motor go back to the idle condition.

SPECIFICATIONS

INPUT	AC current
Input Range	45 - 400 Hz
PERFORMANCE PARAMETERS	
Pull in	< 50mA AC
delay	0- 60 sec. -25% - +50%
Temp. dependence	Typ. $\pm 0.02\%$ / °C
Supply dependence	Typ. $\pm 0.01\%$ / % ΔU
OUTPUT	Relay, 1 C/O or 2 C/O
Contact rating	6 A, 250 VAC, 1500 W
Mechanical life	30 Million operations
SUPPLY	DC voltage
DC supply range	12 V (From 9 to 16 V)
Power consumption	1 W
GENERAL	
Temperature range	- 25 °C to + 55 °C ambient
Humidity	Up to 90 % RH non-condensing
Dielectric test voltage	Input to supply 4000 VAC Coil to relay contacts 4000 VAC
Weight	0.06 kg in 35 mm. housing



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

ORDERING INFORMATION

EXAMPLE:

TYPE
AC current relay

SENSITIVITY (Pull in)
max 100 mA

ADJUSTMENT
Fixed sensitivity

HOUSING
Rail mounting with Current transformer

SIZE
17.5 mm

CODE
Code end
Extended code

