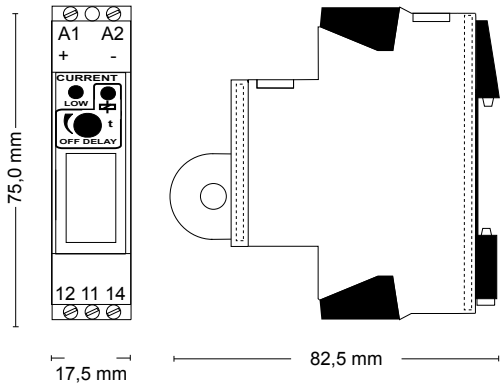


AC CURRENT DETECTING RELAY WITH DELAYED DROP OUT

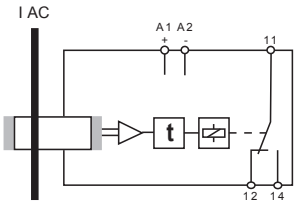
Type: IADA

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. ± 0.02 % / °C	
Supply dependence	Typ. ± 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	

CE

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

ORDERING INFORMATION

EXAMPLE: IADA 1009 F C 1 C

TYPE AC current relay	IADA
SENSITIVITY (Pull in) max 100 mA	1009
ADJUSTMENT Fixed sensitivity	F
HOUSING Rail mounting with Current transformer	C
SIZE 17.5 mm	1
CODE Code end	C
Extended code	E

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