HOKKIM *giving you control* Control & Protection Relays

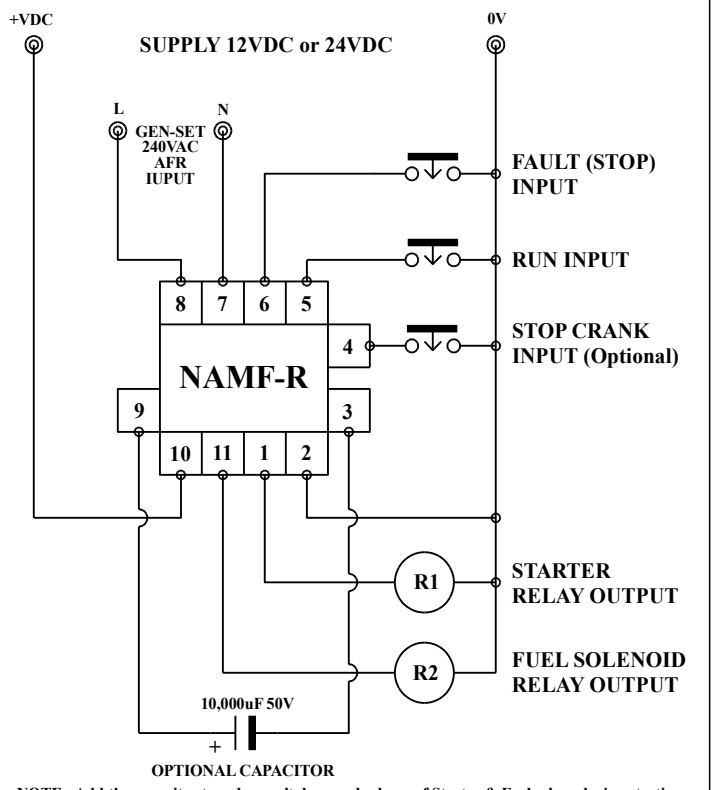
Model : NAMF-R (Energized To RUN)
Description : Automatic Mains Failure Controller Relay

Utilization:

The NAMF-R automatically start a generator set when the mains supply fail, monitor for faults while running and shut down the generator after the mains supply returns. The Run input, signal the NAMF-R to energize the Fuel Solenoid relay and start the Rest-Crank Starter cycle. The rest and crank time are the same and is set with the Rest-Crank Timer. Note that the timer will begin with the rest cycle, follow by the crank starter cycle. When the generator start running, the generator 240VAC supply is fed to the AFR input to stop the Starter cranking.

There are provisions for Stop Crank input, Fault input and AFR input in addition to the internal Stop Crank Timer which set the maximum number of Rest-Crank cycles. The 2 outputs are for Starter relay and Fuel Solenoid relay.

WIRING DIAGRAM FOR NAMF-R



NOTE : Add the capacitor to reduce volt drop and release of Starter & Fuel relays during starting.

Technical Data

Supply Voltage	: ❑ 12VDC ❑ 24DC
Consumption	: 2VA.
Run Input	: Contact to Negative (T5).
Stop Crank Input	: Contact to Negative (T4). Optional.
Fault Input	: Contact to Negative (T6).
AFR Input	: 240VAC from Gen-Set (T7 , T8).
Starter Output	: +VE to Energize Relay 1 (T1).
Fuel Solenoid Output	: +VE to Energize Relay 2 (T11).
LED Indicators	: Power (Green).
	: Run (Green).
	: Fuel Solenoid (Amber).
	: Crank Starter (Red).
	: Fault (Red).
	: Stop Crank (Amber).
	: AFR - AC Fail Relay (Amber).
Shutdown Timer	: Adjustable from 0 to 6 minutes.
Rest-Crank Timer	: Adjustable from 2 to 10 seconds.
Stop Crank Timer	: Follow Rest-Crank for 6 attempts.
Internal Capacitor	: 2,200uF 25V for 12VDC.
	: 1,000uF 50V for 24VDC.
Optional Capacitor	: +VE to T9 and -VE to T3.
	: 10,000uF 50V for 12VDC.
	: 4,700uF 50V for 24VDC.

Note : Add the optional capacitor when the internal capacitor is insufficient and relay drop out occurs.