

AUTOMATIC MAINS FAILURE (AMF) RELAY



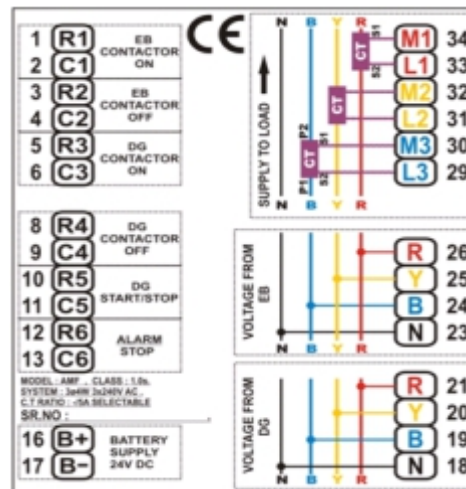
- ◆ Accuracy Class 1.0
- ◆ Large 20 X 4 backlit LC Display
- ◆ 12 LEDs for different indications
- ◆ Low battery warning
- ◆ Generator trial fail alarm
- ◆ DG test mode
- ◆ Under volt Indication
- ◆ Displays Generator (DG) Run Hour and Maintenance Hour
- ◆ Suitable for both 12V and 24V battery systems. Wide input (9-36VDC) DC-DC converter power supply.
- ◆ Displays voltage, frequency and current.
- ◆ CT Ratio field programmable
- ◆ DG maintenance warning
- ◆ Generator Over Current Alarm
- ◆ DG fault alarm
- ◆ Over volt indication
- ◆ Automatic contactor control

The AMF relay is a micro-controller based unit which automates generator start and stop actions during mains failure by controlling both mains and generator contactors. It also measures voltage, current and frequency and displays it on a 20 x 4 LCD. It has 12 LEDs for different indications. All programmable parameters are password protected and are stored in a non volatile memory and thus all information is retained in the event of complete loss of battery power. AMF can be operated in "AUTO", "QAUTO" (Quick Auto) or "MANUAL" mode. The unit features a non-erasable incremental "DG run hour" and "maintenance hour. This unit is meant for use in three phase four wire systems. The "CT ratio" is site selectable. The unit is powered by a wide input (9-36VDC) power supply, which makes it suitable for both 12V and 24V battery systems.

Technical Specifications

		Parameters	
Type	Name	Statistics	
INPUT	Three Phases and Neutral of a 3P4W		
	Voltage	Direct Voltage Input Burden	: Up to 300V L-N : 0.5VA
	Current	Secondary Current Input CT Ratio Range of Reading Burden Overload	: 5A or 1A (Site Selectable) : Site Selectable : 5 – 5000A : < 1.0VA : 5A CT = 6A RMS Continuous 1A CT = 1.2A RMS Continuous
	Power Supply	9-36V DC	
OUTPUT	Relay	Six Relays(NO) Switching Voltage Switching Current Expected Mechanical Life Expected Electrical Life	: Max. 250 VAC : 6 A (Resistive load) : > 1X10 ⁷ switching operations : > 5X10 ⁴ switching operations
MEASUREMENT	True RMS Basic Parameters	Voltage (Volts L-N)	VL-N Accuracy : 1.0% of Reading
		Current (Amps IR, IY, IB)	Accuracy : 0.25 % of Reading
		Line Frequency	45 to 55 Hz, Accuracy : 0.3% of Reading
Dimensions	Bezel	144 X 144 mm	
	Panel Cutout	138 X 138 mm	
	Depth of installation	55 mm	
	Display	20 X 4 Backlit LCD	
	Operating temp	10°C to 50°C	
	Weight	0.58 Kgs (Approx.)	
	Operating Current Range	0.4% to 120% of CT primary	

Connection Diagram



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