

SUPER DIGITAL MONITORING RELAY

Device Introduction

Super Digital Monitoring Relay is equipped with a high technology and fully microprocessor-controlled system designed and made to control disturbances of grid's electricity accurately in industrial centers.



MODEL: DMB-600S
CODE:13B4
WEIGHT : 200 gr
(72x86x60) mm
IP 30

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Features

- Displaying grid's voltage, errors and adjustment messages.
- Protection
 - over voltage / undervoltage
 - phase sequence and asymmetry
 - phase loss
- Indicators
 - REL : relay connection
 - F: phase loss
 - P: phase sequence
 - On Delay-Off Delay : delay for connection and disconnection
 - over-under : voltage increase and decrease
 - Unbalance: phase asymmetry
- Adjustable protection parameters
- Phase neutral reversal warning

Technical Specification

- Supply voltage : 180-250 VAC/R-N/50-60HZ
- Input voltage: 300-500 VAC/3PH/50-60HZ
- Delay time
 - On Delay : 0-600 Sec
 - OFF Delay : 0-10 Sec
 - Delay start because of undervoltage : 15 sec

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- Disconnection for
 - Over Voltage : 400-480V
 - Under Voltage : 310-380 V
 - Asymmetry : 5-25%
- operating condition
 - Temperature : -20°C .. +65°C
 - Humidity : 70%
- Output : two 5A relays

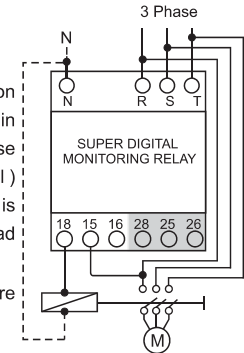
Installation instruction

First install Super Digital Monitoring Relay on the rail inside panel. Use the rail embedded in the box if installation location has no rail. (Use Shiva Amvaj panel frame to install on panel) Wire device based on schematic. It is possible to use 25 and 28 contacts instead other contactors.

Note: operation of relay1 and relay2 are simultaneous and isolated.

Device Operation

This device displays grid's voltage normally. Use table ① to adjust device and table ② to check errors .



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VER:9801

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Device adjustment

Table ①

Enter to adjustment step	Indicator ON	Display/description	Variation adjustment range using ↑ and ↓ buttons
ENTER ↵	Unbalance	Voltage asymmetry	5 - 25%
ENTER ↵	Over	Maximum Voltage	400-480 V
ENTER ↵	Under	Minimum Voltage	310-380 V
ENTER ↵	Off Delay	Delay time for disconnection	0-10 Sec
ENTER ↵	On Delay	Delay time for connection	0-600 Sec

Note 1: if an interruption occurs when adjusting device and no button is pressed, after 10 seconds device returns to normal operation (grid's voltage display)

Note 2: after adjusting each parameter by pressing button, adjusted value will be stored, otherwise previous value is considered.

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Error Messages

Table ②

Blinking indicator	Error description	Relay disconnection time	indicator	
			Before relay disconnection	After relay disconnection
Unbalance	Voltage asymmetry	Off Delay	F-- count down	Grid's voltage
Over	OVER Voltage	Off Delay	F-- count down	Grid's voltage
Under	Under Voltage	Off Delay	F-- count down	Grid's voltage
F	Phase loss	0 Sec	r-5 blinking	r-5 blinking
P	Phase sequence	0 Sec	Circular movement	Circular movement
All indicators	Neutral replacement	0 Sec	EEE	EEE

Note1: relay disconnection timing is simultaneous with OffDelay indicator blinking.

Note2: relay connection timing is simultaneous with OnDelay indicator blinking.

Note3: after error correction and displaying OnDelay in countdown format, relay connects and indicator shows grid's voltage.

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Respecting the customer is our duty

3 year no question asked guarantee under these conditions;

1-at most it should be within 3 years from the date printed on the label of the product

2-the label on the product should be safe and sound

Shiva Amvaj products in accordance with international standards and with a 3 year no question asked guarantee are presented

ISO 9001-2008



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