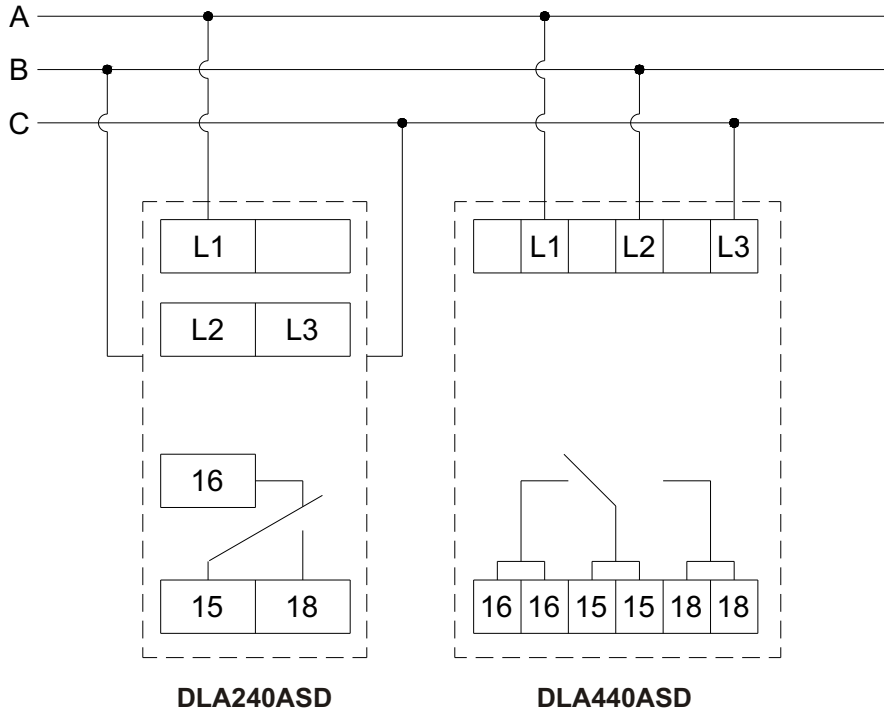




**INSTALLATION AND OPERATING INSTRUCTIONS  
DLA SERIES  
3-PHASE MONITORS (cont'd)**

**WIRING DIAGRAM**



**INSTALLATION AND OPERATING INSTRUCTIONS  
DLA SERIES  
3-PHASE MONITORS**

***BE SURE POWER IS SHUT OFF PRIOR TO INSTALLING THIS DEVICE!!***

1. Follow all Local, State, and National Electrical Codes when installing this equipment.
2. Mount the unit in or near the control panel of the equipment to be protected.
3. If applicable, turn the under voltage adjustment dial (Umin) to minimum (CCW).
4. Connect wires from the fused 3-phase line voltage to the proper terminals as shown in the configuration diagrams. In WYE connected systems, connection to neutral wire is not required. Do not wire output contacts until Step 10.
5. **TURN POWER ON.** The internal output relay should energize and the green LED should glow. A continuity tester can be placed across the normally open contacts to check operation on all models.
6. If the red LED glows along with the green LED and the internal relay does not energize. **TURN POWER OFF** and swap any two (2) of the three (3) input wires to the phase monitor. This corrects the phase sequence if the monitor was connected in the reverse rotation.
7. **TURN POWER ON.** When the internal output relay and only the green LED energize, the phase sequence is correct and the voltage on all three phases are above the minimum voltage set point.
8. Select the proper voltage trip point. Slowly rotate the under voltage adjustment dial (Umin) clockwise until the red LED glows and the internal output relay de-energizes.  
NOTE: Some high line and unloaded conditions may prevent maximum (CW) adjustment beyond the point where the red LED glows and the internal output relay de-energizes. Leave the adjustment at the maximum (CW) position and proceed to Step 10.
9. Next, slowly rotate the under voltage adjustment dial (Umin) counter clockwise until the red LED extinguishes and/or the internal output relay energizes. This procedure assures that the monitor is set at your exact line-to-line voltage. NOTE: It may be necessary to Set a fault delay by turning the timing dial (t) clockwise to a desired time to prevent nuisance tripping.
10. **TURN POWER OFF.** Refer to the proper configuration on the reverse side for output contact connections.
11. After proper connections have been made, **TURN POWER ON.** the internal output relay will energize thus allowing monitored load to become active.

**YOUR EQUIPMENT IS NOW PROTECTED AGAINST LOW VOLTAGE,  
PHASE REVERSAL AND PHASE LOSS!**



The device is constructed to be connected into 3-phase main and must be installed in accordance with regulations and norms applicable in a particular country. Installation, connection and setting can be done only by a person with an adequate electro technical qualification which has read and understood this instruction manual and product functions. The device contains protections against over-voltage peaks and disturbing elements in the supply main. To ensure correct function of these protection elements it is necessary to front-end other protective elements of higher degree (A,B,C) and screening of disturbances of switched devices (energized and that the main switch is OFF. Do not install the device to the sources of excessive electromagnetic disturbances. By correct installation, ensure good air circulation so the maximal allowed operational temperature is not exceeded in case of permanent operation and higher ambient temperature. While installing the device use screwdriver width approx. 2 mm. Keep in mind that this device is fully electronic while installing. Correct function of the device is also depended on transportation, storing and handling. In case you notice any signs of damage, deformation, malfunction or missing piece, do not install this device and claim it at the seller. After operational life treat the product as electronic waste.



## INSTALLATION AND OPERATING INSTRUCTIONS

### DLA SERIES

### 3-PHASE MONITORS (cont'd)

SPECIFICATIONS:	DLA240ASD	DLA480ASD
Monitoring Terminals	L1,L2,L3	
Supply Terminals	L1,L2,L3	
Drop-Out Voltage	Adjustable 70-95% of 240V	Adjustable 70-95% of 480V
Response Times	Operate: .5 SEC Fixed Release: 0-10 SEC Adjustable	
Power Required	2 VA (max.)	
Hysteresis	5%	
Supply/ Measured Voltage	3 x 240V	3 x 480V
Supply/ Measured Voltage	ABC (Will Not Operate CBA)	
Operating Temperature	-4° to +131°F (-20° to +55°C)	
Storage Temperature	-22° to +158°F (-30° to +70°C)	
Output Rating	8A Resistive, SPDT	
Relay Indicator	Red LED	
Relay Mechanical Life	10,000,000 Operations	
Relay Electrical Life	100,000 Operations	
Breaking Capacity	2500 VA/ Resistive, 240W/ DC	
Inrush Current	10A	
Weight	66g	108g
Dimensions	90x17.6x64mm	90x52x65mm
Max Permanent Overload	AC 3x276V	AC 3x550V
Peak Overload < 1ms	AC 3x300V	AC 3x600V
Mounting	DIN Rail	
Protection Degree	IP 40 From Front Panel	
Over Voltage Category	III	
	2	
Max Cable Size (mm <sup>2</sup> )	Solid Wire Max 2x2.5 or 1x4 With Sleeve Max 1x2.5 or 2x1.5	Max 1x2.5, Max 2x1.5 With Sleeve Max 1x1.5
Approvals	UL Recognized, CE	