



496Y

Universal Phase Monitor

- · Monitors up to 700 VAC
- DIN Rail or Surface Mount
- Operating Range 200-630 VAC
- · Manual or Automatic Reset
- · Adjustable Restart Delay
- · Adjustable Fault Delay

PROTECTS AGAINST:

- Rapid Cycling
- · Phase Loss
- · Phase Reversal
- · Phase Unbalance
- · Phase Shift
- · Over/Under Voltage
- Over/Under Frequency

ORDERING INFORMATION

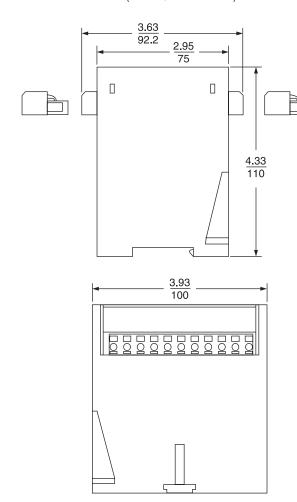
MODEL NUMBER	DESCRIPTION	
SLU-600-ASTDS	Universal Phase Monitor/Relay	

The ATC-Diversified Electronics **SLU-600-ASTDS** Universal Phase Monitor protects 3-phase motors up to 700VAC. The **RAPID CYCLING** feature prevents motors cycling due to load-induced line fault conditions. Powered by 120VAC, this reliable motor protection relay is unaffected by transients and disturbances from the monitored power source. The SLU-600 Series is UL Listed under UL File Number E55826.

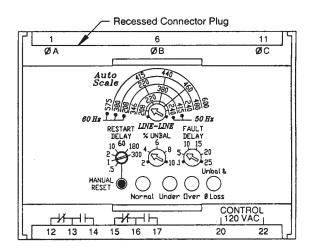
SPECIFICATIONS

SCALES 60Hz 208, 220, 240 200-250 380, 415, 440, 360-500 460, 480, 575, 600 550-630 50Hz 208, 220, 240 200-250 346, 380, 415 330-430 360-500 460, 480, 575, 600 550-630 50Hz 208, 220, 240 200-250 346, 380, 415 330-430 330-430 360-500 460, 480, 575, 600 550-630 750-630 346, 380, 415 330-430 330-430 360-500 460, 480, 575, 600 50Hz 47% of Range Setting (Under/Over) 47% of	AUTO RANGING	Frequency	Nominal Line-to- Line Voltages	Adjustable Range			
		60Hz					
208, 220, 240 330-430 330-430 346, 380, 415 330-430 346, 380, 415 330-430 346, 380, 415 330-430 346, 380, 415 330-430 346, 380, 415 330-430 346, 380, 415 340-430 34				360-500			
346, 380, 415 330-430							
Drop-out ±10% of Range Setting (Under/Over)		50Hz					
CONTROL VOLTAGE 120 VAC ±10%, 50/60Hz							
CONTROL VOLTAGE MAXIMUM YOLTAGE PHASE SEQUENCE POWER REQUIRED PHASE SEQUENCE POWER REQUIRED PHASE SHIFT 13° Drop-out, 12° Pick-up (Ø-Loss) FREQUENCY Pick up 50/60 Hz SHIFT Drop-out Pick up 5 Cycle Lockout, 30-Min. Cycle Count Reset RESET Automatic or Manual Mode Clears Rapid Cycle Count RELAY OUTPUT DPDT, 10A @ 240 VAC Resistive LED'S Flashing Normal Green LED) Fault (Red LED) Fault (Red LED) Restart Delay Active De-energized Over (Red LED) Restart Delay Relay Active De-energized Over (Red LED) Restart Delay Relay Active De-energized RESPONSE Power Up 2.5 S Minimum Fault Delay Relay Active De-energized RESPONSE Power Up 2.5 S Minimum Fault Delay Active De-energized Restart Delay Active De-energized Normal Fault Delay Continuous Relay Active De-energized Over (Red LED) Restart Delay Relay Active De-energized Response Response Power Up 2.5 S Minimum Fault Delay O.1 to 25 S, Adjustable Severe Fault 100mS (Ø-Loss, Unbalance or Ø Reversal) Restart Restart Operate 32° to 131°F (0° to +55°C) Storage 49° to 185°F (-45° to +85°C) REPEAT ACCURACY 17 @ Fixed Condition TERMINALS Plug and Socket Term Block with Spring Pressure Wire Retention, 12 AWG Max. ENCLOSURE							
MAXIMUM VOLTAGE PHASE SEQUENCE POWER REQUIRED 90VA Max. PHASE 2% to 10%, Adjustable Drop-out Unbalance Housing PHASE SHIFT 13° Drop-out, 12° Pick-up (Ø-Loss) FREQUENCY 50/60 Hz SHIFT Drop-out ± 4% Pick up ± 3% RAPID CYCLING 5 Cycle Lockout, 30-Min. Cycle Count Reset RESET Automatic or Manual Mode Clears Rapid Cycle Count RELAY OUTPUT DPDT, 10A @ 240 VAC Resistive LED'S Flashing Continuous Normal Fault Delay Relay (Green LED) Active Energized Fault (Red LED) Restart Delay Relay Active De-energized Over (Red LED) Restart Delay Relay Active De-energized Over (Red LED) Restart Delay Relay Active De-energized RESPONSE Power Up 2.5 S Minimum Fault Delay 0.1 to 25 S, Adjustable Severe Fault 100mS (Ø-Loss, Unbalance or Ø Reversal) Restart 0.5 to 300 S, Adjustable (Auto Reset) TEMPERATURE Operate 32° to 131°F (0° to +55°C) Storage 49° to 185°F (-45° to +85°C) REPOLLOSURE 35mm DIN Rail or Surface Mount, Polycarbonate Housing	BAND	Pick-up ±7% of Range Setting (Under/Over)					
PHASE SEQUENCE POWER REQUIRED 90VA Max. PHASE UNBALANCE Hysteresis 10% of Setting PHASE SHIFT 13° Drop-out, 12° Pick-up (Ø-Loss) FREQUENCY 50/60 Hz SHIFT Drop-out ± 4% Pick up ± 3% RAPID CYCLING 5 Cycle Lockout, 30-Min. Cycle Count Reset RESET Automatic or Manual Mode Clears Rapid Cycle Count RELAY OUTPUT DPDT, 10A @ 240 VAC Resistive LED'S Flashing Normal Fault Delay (Green LED) Active Fault (Red LED) Active De-energized Fault (Red LED) Restart Delay Active De-energized Over (Red LED) Restart Delay Relay Active De-energized Unbal / Ø Loss (Red LED) Active De-energized RESPONSE Power Up 2.5 S Minimum Fault Delay O.1 to 25 S, Adjustable Severe Fault 100mS (Ø-Loss, Unbalance or Ø Reversal) Restart O.5 to 300 S, Adjustable (Auto Reset) TEMPERATURE REPEAT ACCURACY 1% @ Fixed Condition TERMINALS Plug and Socket Term Block with Spring Pressure Wire Retention, 12 AWG Max.	CONTROL VOLTAGE	120 VAC ±10	%, 50/60Hz				
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PHASE UNBALANCE Hysteresis 10% of Setting PHASE SHIFT 13° Drop-out, 12° Pick-up (Ø-Loss) FREQUENCY SHIFT Drop-out ± 4% Pick up ± 3% RAPID CYCLING 5 Cycle Lockout, 30-Min. Cycle Count Reset RESET Automatic or Manual Mode Clears Rapid Cycle Count RELAY OUTPUT DPDT, 10A @ 240 VAC Resistive LED'S Flashing Continuous Normal Fault Delay (Green LED) Active Pe-energized Fault (Red LED) Restart Delay Active De-energized Over (Red LED) Restart Delay Relay Active De-energized Unbal / Ø Loss (Red LED) Active De-energized RESPONSE Power Up 2.5 S Minimum Fault Delay 0.1 to 25 S, Adjustable Severe Fault 100mS (Ø-Loss, Unbalance or Ø Reversal) Restart 0.5 to 300 S, Adjustable (Auto Reset) TEMPERATURE RATINGS Storage -49° to 185°F (-45° to +85°C) REPEAT ACCURACY 1% @ Fixed Condition FINALS Plug and Socket Term Block with Spring Pressure Wire Retention, 12 AWG Max. ENCLOSURE		ABC (Will Not Operate On CBA Sequence)					
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SHIFT Drop-out ± 4% Pick up ± 3%	UNBALANCE	Hysteresis 10% of Setting					
Drop-out ± 4%	PHASE SHIFT	13° Drop-out, 12° Pick-up (Ø-Loss)					
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Flashing Continuous	RESET						
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Unbal / Ø Loss Restart Delay Relay De-energized		over (near LLL					
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Fault Delay 0.1 to 25 S, Adjustable Severe Fault 100mS (Ø-Loss, Unbalance or Ø Reversal) Restart 0.5 to 300 S, Adjustable (Auto Reset) TEMPERATURE Operate 32° to 131°F (0° to +55°C) Storage -49° to 185°F (-45° to +85°C) REPEAT ACCURACY 1% @ Fixed Condition TERMINALS Plug and Socket Term Block with Spring Pressure Wire Retention, 12 AWG Max. ENCLOSURE 35mm DIN Rail or Surface Mount, Polycarbonate Housing		(Red LED)	Active	De-energized			
Severe Fault 100mS (Ø-Loss, Unbalance or Ø Reversal) Restart 0.5 to 300 S, Adjustable (Auto Reset) TEMPERATURE Operate 32° to 131°F (0° to +55°C) RATINGS Storage -49° to 185°F (-45° to +85°C) REPEAT ACCURACY 1% @ Fixed Condition TERMINALS Plug and Socket Term Block with Spring Pressure Wire Retention, 12 AWG Max. ENCLOSURE 35mm DIN Rail or Surface Mount, Polycarbonate Housing	RESPONSE	Power Up	2.5 S Minimum	2.5 S Minimum			
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TERMINALS Plug and Socket Term Block with Spring Pressure Wire Retention, 12 AWG Max. ENCLOSURE 35mm DIN Rail or Surface Mount, Polycarbonate Housing			•				
Retention, 12 AWG Max. ENCLOSURE 35mm DIN Rail or Surface Mount, Polycarbonate Housing							
	IERMINALS						
WEIGHT 1.10 lbs.	ENCLOSURE	35mm DIN Rail or Surface Mount, Polycarbonate Housing					
	WEIGHT	1.10 lbs.					

DIMENSIONS (INCHES/MILLIMETERS)



TOP LABEL



LED STATUS CHART

● = OFF ○ = ON · = FLASHING	Normal Green LED	Under Red LED	Over Red LED	Unbal & Ø Loss Red LED
Powering Up/First 3 Sec	•	•	•	- ` Ö-
Powered Up/Normal Voltages	0	•	•	•
Relay ON/Under Voltage Detected/FAULT DELAY active	- \ \\	•	•	•
Relay ON/Over Voltage Detected/ FAULT DELAY active	- \\(\dagger\)-	•	•	•
Relay ON/Unbal or Ø Loss Detected/FAULT DELAY active	- \ \\dagge-	•	•	•
Relay OFF/Under Voltage Failure	•	0	•	•
Relay OFF/Over Voltage Failure	•	•	0	•
Relay OFF/Unbal or Ø Loss Failure	•	•	•	0
Relay OFF/Under Voltage Corrected/RESTART DELAY active	•	. ⇔-	•	•
Relay OFF/Over Voltage Corrected/RESTART DELAY active	•	•	. ⇔-	•
Relay OFF/Unbal or Ø Loss Corrected/RESTART DELAY active	•	•	•	- \ \\