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Universal Phase Monitor

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.
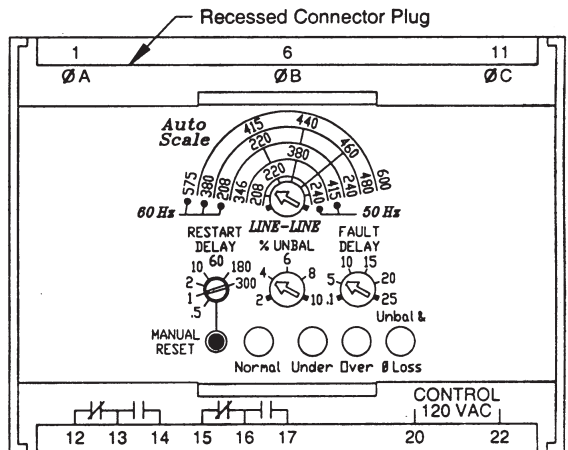
▶ SPECIFICATIONS

AUTO RANGING SCALES	Frequency	Nominal Line-to-Line Voltages	Adjustable Range
	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

3Ø VOLTAGE BAND	Drop-out	±10% of Range Setting (Under/Over)
	Pick-up	±7% of Range Setting (Under/Over)

CONTROL VOLTAGE	120 VAC ±10%, 50/60Hz

MAXIMUM VOLTAGE	700 VAC (Line-to-Line)

PHASE SEQUENCE	ABC (Will Not Operate On CBA Sequence)

POWER REQUIRED	90VA Max.

PHASE UNBALANCE	2% to 10%, Adjustable Drop-out	
	Hysteresis	10% of Setting

PHASE SHIFT	13° Drop-out, 12° Pick-up (Ø-Loss)

FREQUENCY SHIFT	50/60 Hz	
	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 (Green LED)	Fault Delay Active	Relay Energized
	Fault (Red LED)	Restart Delay Active	Relay De-energized
	Over (Red LED)	Restart Delay Active	Relay De-energized
	Unbal / Ø Loss (Red LED)	Restart Delay Active	Relay 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	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

WEIGHT	1.10 lbs.

- 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

▶ **DIMENSIONS** (INCHES/MILLIMETERS)
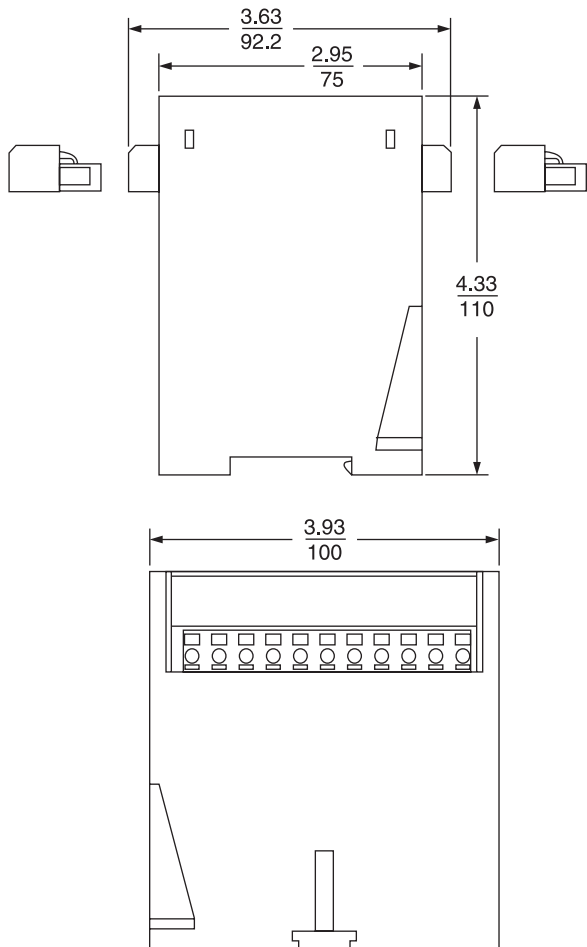
▶ **TOP LABEL**

▶ **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		●	●	●	☼
Powered Up/Normal Voltages		○	●	●	●
Relay ON/Under Voltage Detected/FAULT DELAY active		☼	●	●	●
Relay ON/Over Voltage Detected/FAULT DELAY active		☼	●	●	●
Relay ON/Unbal or Ø Loss Detected/FAULT DELAY active		☼	●	●	●
Relay OFF/Under Voltage Failure		●	○	●	●
Relay OFF/Over Voltage Failure		●	●	○	●
Relay OFF/Unbal or Ø Loss Failure		●	●	●	○
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		●	●	●	☼