The ATC Diversified SLA Series is designed to protect 3-phase equipment against PHASE LOSS, UNDER VOLTAGE, and PHASE REVERSAL conditions.

With normal operating voltages applied in the proper ABC sequence, the internal relay will energize (PICK-UP). When incorrect phase sequence or phase loss occurs or the three-phase voltages fall below the drop out voltages, the relay will de-energize (DROP-OUT). On models featuring indicators, the LED glows when all line conditions are normal.

Both Delta and Wye systems may be monitored. In Wye systems, connections to neutral are NOT required.

For UL Listed units, with field wiring terminals, copper wire with 60°/75°C rating must be used for control circuitry connections.

NOTE: When a phase is lost while the motor is running, a condition known as regeneration occurs where a voltage is induced into the open phase nearly equal in magnitude to the normal phase-to-phase voltage. However, with the exception of lightly loaded motors, enough change is detected by the SLA to provide the required protection when properly adjusted. The SLA Series is UL Listed under file Number E55826.

# SPECIFICATIONS

1 Ø Low	83% of Nominal			
3 Ø Low	90% of Nominal			
Models Up to 300 VAC				
Operate	250 mSEC			
Release	0.5 SEC			
Models Over 300 VAC				
Operate	1.0 SEC			
Release	2.0 SEC			
Operate Release	60 mSEC 0.5 SEC			
Style "A" Style "E"	3 VA (approximately) Models up to 300 VAC: 3 VA (max. Models over 300 VAC: 7 VA (max.) Models up to 500 VAC: 3 VA (max.			
Style "N"	3 VA (max.)			
See Ordering Information				
Automatic (Manual Optional)				
Glows when all conditions are Normal				
(On Applicable Models)				
SPDT (Style "A" and "N") DPDT (Style "E")				
ABC (Will not Operate CBA)				
Operate	32 to +131 F (0 to +55C)			
Storage	-49 to 185 F (-45 to +85 C)			
3,611,050				
	3 Ø Low Models Up to 3 Operate Release Models Over 30 Operate Release Style "A" Style "A" Style "E" Style "N" See Ordering In Automatic (Mai Glows when all (On Applicable SPDT (Style "A DPDT (Style "E ABC (Will not O Operate Storage			

Style "A" **U**US LISTED IND. CONT. EQ. 496Y

Style "E'

Style "N"

- · Available up to 480 VAC (625 VAC with "E" style)
- · Delta or Wye Systems
- · Fixed, Lock Shaft, or Screwdriver Adjustments
- Several Enclosure Styles

## TYPICAL APPLICATIONS

- Air Handlers
- Computer Power Protection
- Conveyor Drive
- Water Waste & Sewage Machinery
- Oil & Gas Pumps ٠
- Sawmill & Woodpump Machinery
- Power Substation
- · Automatic Transfer Switching for Monitoring Emergency Power Supplies

## **MODEL NUMBER**

MODEL NUMBER SLA					
OPERATING VOLTAGE See Ordering Information XXX					
TYPE OF OPERATION Fixed	F				
Lock Shaft Adjusted	L				
Screwdriver Adjusted	S				
ENCLOSURE STYLE					
Octal Plug-In Dust Cover		Α			
Blad Plug-In, Dust Cover		В			
Surface Mounted, #8 Screw Terminals		E			
Surface Mounted, 1/4" Quick Disconnect Terminals N					
OPTIONS					
Add R Suffix when manual reset is required,					
(Available only in Style "E" Enclosure)					
Plug-In models are UL Listed only when used with			U		
RB-08 socket.					

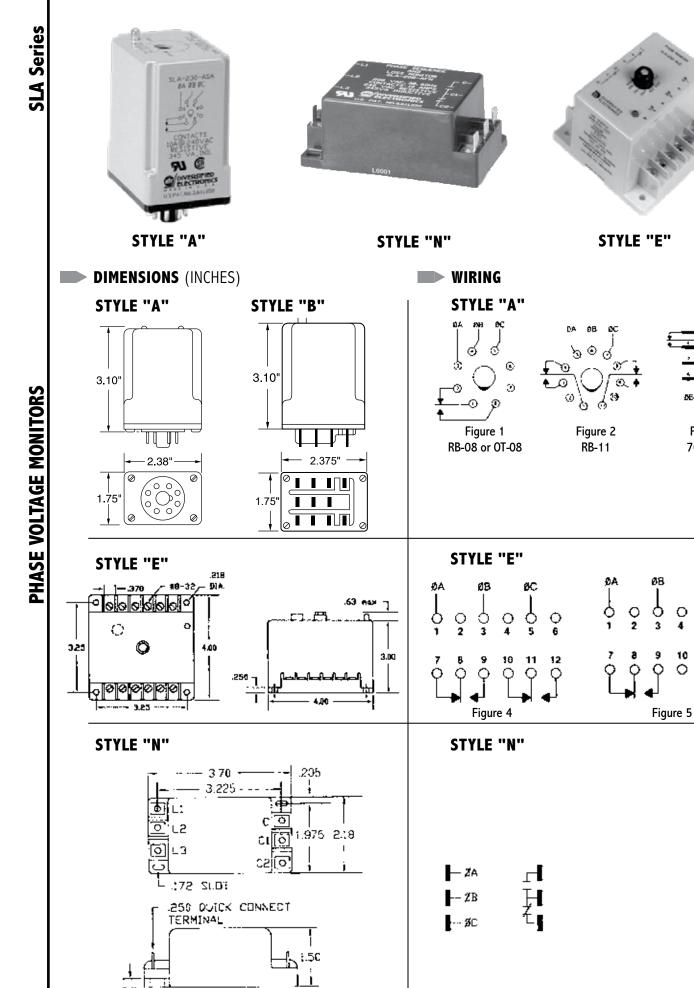


Phase Monitors

**PROTECTS 3-PHASE EQUIPMENT** AGAINST:

- Phase Loss
- Under Voltage
- · Phase Reversal
- Irrigation Pumps
- Lift Station Pumps
- Robotics Equipment
- Elevator Drives
- · Commercial/Industrial Air **Conditioning & Refrigeration** Compressors

SLA Series



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Figure 3

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**SLA Series** 

# **PHASE VOLTAGE MONITORS**

# ORDERING INFORMATION

				STYLE A PLUG-IN			
MODEL	OPERATING	TYPE OF	DROP-OU	DROP-OUT VOLTAGE AGENCY			
NUMBER	VOLTAGE	ADJUSTMENT	1 Ø LOW	3 Ø LOW	APPROVAL	OUTPUT RATINGS	
SLA-120-ALA		Lock Shaft				DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC. Figure 2	
SLA-120-ASA	95-130 Adj	Screwdriver	79-108	85-117	c <b>911</b> us 🚯	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1	
SLA-120-ASB		Sciewalivei			_	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3	
SLA-230-ALA		Lock Shaft		171-243	c <b>¶N</b> °us	DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2	
SLA-230-ASA	190-270 Adj.		158-224		c <b>M'</b> us 🚯	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1	
SLA-230-ASB		Screwdriver	ver		_	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3	
SLA-380-ASA	350-440 Adj.		290-365	315-396		SPDT, 360 VA Inductive; 10 Amps	
SLA-440-ASA	430-480 Adj.	•	357-398	387-432	—	Resistive @ 240 VAC, Figure 1	
SUA-120-ALA	95-130 Adj.		79-108	85-117			
SUA-120-ALAU*	55 155 Aug.	Lock Shaft	75 100			SPDT, 345 VA Inductive; 10 Amps	
SUA-230-ALA	190-270 Adj.	Lock Shart	158-224	171-243		Resistive @ 240 VAC, Figure 1	
SUA-230-ALAU*	150-270 Auj.	4j.	130-224	1/1-243			
SUA-380-ASA	350-440 Adj.	Screwdriver	290-365	315-396	6	SPDT, 10 Amps	
SUA-440-ASA	430-480 Adj.	Screwariver	357-398	387-432	c <b>Al</b> <sup>®</sup> us 🚱	Resistive @ 240 VAC, Figure 1	
*UL Listed only when used Models also available with	with RB-08 relay socke fixed operating voltages	t; 5 Amps Resistive @ s. Consult factory.	240 VAC. All voltages r	eferenced on this page a	re phase-to-phase.		

STYLE E SURFACE MOUNTED ENCLOSURE DROP-OUT VOLTAGE MODEL OPERATING AGENCY NUMBER VOLTAGE 1 Ø LOW 3 Ø LOW RESET ARPROVAL **OUTPUT RATINGS** DPDT, 211 VA Inductive; 10 Amps c 🖤 us 🚯 SLA-120-ALE Automatic Resistive @ 120 VAC. Figure 4 79-108 95-130 Adj. 85-117 DPDT, 211 VA Inductive; 10 Amps SLA-120-ALER Manual Resistive @ 120 VAC. Figure 4 DPDT, 345 VA Inductive; 5 Amps SLA-230-ALE Automatic Resistive @ 240 VAC. Figure 4 190-270 Adj. 158-224 171-243 DPDT, 345 VA Inductive; 5 Amps SLA-230-ALER Manual Resistive @ 240 VAC. Figure 4 DPDT, 360 VA Inductive; 3 Amps SLA-380-ALE Automatic Resistive @ 600 VAC. Figure 4 350-440 Adj. 290-365 315-396 SPDT, 360 VA Inductive; 3 Amps SLA-380-ALER Manual Resistive @ 600 VAC. Figure 5 DPDT, 360 VA Inductive; 3 Amps SLA-440-ALE Automatic Resistive @ 600 VAC. Figure 4 430-480 Adj. 357-398 387-432 SPDT, 360 VA Inductive; 3 Amps SLA-440-ALER Manual Resistive @ 600 VAC. Figure 5 DPDT, 360 VA Inductive; 3 Amps SLA-575-ALE 525-625 Adj. 436-519 473-563 Automatic Resistive @ 600 VAC. Figure 4 All voltage referenced are phase-to-phase.-Models also available with fixed operating voltages. Consult factory.

### STYLE N EPOXY ENCAPSULATED

MODEL	OPERATING		DROP-OUT	AGENCY	
NUMBER	VOLTAGE	TYPE OF OPERATION	1 Ø LOW	3 Ø LOW	APPROVAL
SLA-120-AFN	120	Fixed	100	108	
SLA-208-AFN	208	Fixed	173	187	c <b>SU</b> us
SLA-220-AFN	220	Fixed	183	198	
SLA-240-AFN	240	Fixed	199	216	

SPDT 180 va @ 120 vac, 72 va @ 24 vac.