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.

SPECIFICATIONS

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.

SFECIFIC					
DROP OUT VOLTAGE	1 Ø Low 3 Ø Low	83% of Nominal 90% of Nominal			
RESPONSE TIMES	Models Up to 300 VAC				
STYLE "A" & "E"	Operate	250 mSEC			
	Release	0.5 SEC			
	Models Over 300 VAC				
	Operate	1.0 SEC			
	Release	2.0 SEC			
RESPONSE TIMES STYLE "N"	Operate Release	60 mSEC 0.5 SEC			
POWER REQUIRED	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.)			
OPERATING	See Ordering Information				
VOLTAGE					
RESET	Automatic (Ma	nual Optional)			
INDICATOR LED	Glows when all conditions are Normal (On Applicable Models)				
OUTPUT RATING	SPDT (Style "A" and "N") DPDT (Style "E")				
PHASE SEQUENCE	ABC (Will not Operate CBA)				
TEMPERATURE	Operate	32 to +131 F (0 to +55C)			
RATING	Storage	-49 to 185 F (-45 to +85 C)			
U.S. PATENT	3,611,050				
NUMBER					
WEIGHT	Style "A" Style "N" Style "E"	NET:2.24 oz Shipping: 2.56 oz NET:4.8 oz Shipping: 5.76 oz. NET:5.3 oz Shipping: 5.6 oz			

## Style "A" c**SU**s LISTED IND. CONT. EQ. 496Y Style "N" Style "E **Phase Monitors** · Available up to 480 VAC AGAINST: (625 VAC with "E" style) Phase Loss · Delta or Wye Systems Under Voltage · Fixed, Lock Shaft, or Screwdriver · Phase Reversal Adjustments Several Enclosure Styles **TYPICAL APPLICATIONS** · Air Handlers Irrigation Pumps Computer Power Protection · Conveyor Drive · Water Waste & Sewage Machinery • Oil & Gas Pumps Sawmill & Woodpump Machinery Compressors Power Substation · Automatic Transfer Switching for Monitoring Emergency Power Supplies x.) .) MODEL NUMBER x.) **MODEL NUMBER** SLA А **OPERATING VOLTAGE** ХХХ See Ordering Information **TYPE OF OPERATION** Fixed Lock Shaft Adjusted Screwdriver Adjusted **ENCLOSURE STYLE** Octal Plug-In Dust Cover Blad Plug-In, Dust Cover Surface Mounted, #8 Screw Terminals Surface Mounted, 1/4" Quick Disconnect Terminals

Ν **OPTIONS** R Add R Suffix when manual reset is required, (Available only in Style "E" Enclosure) U Plug-In models are UL Listed only when used with RB-08 socket.

**PROTECTS 3-PHASE EQUIPMENT** 

- Lift Station Pumps
- Robotics Equipment
- · Elevator Drives
  - Commercial/Industrial Air **Conditioning & Refrigeration**

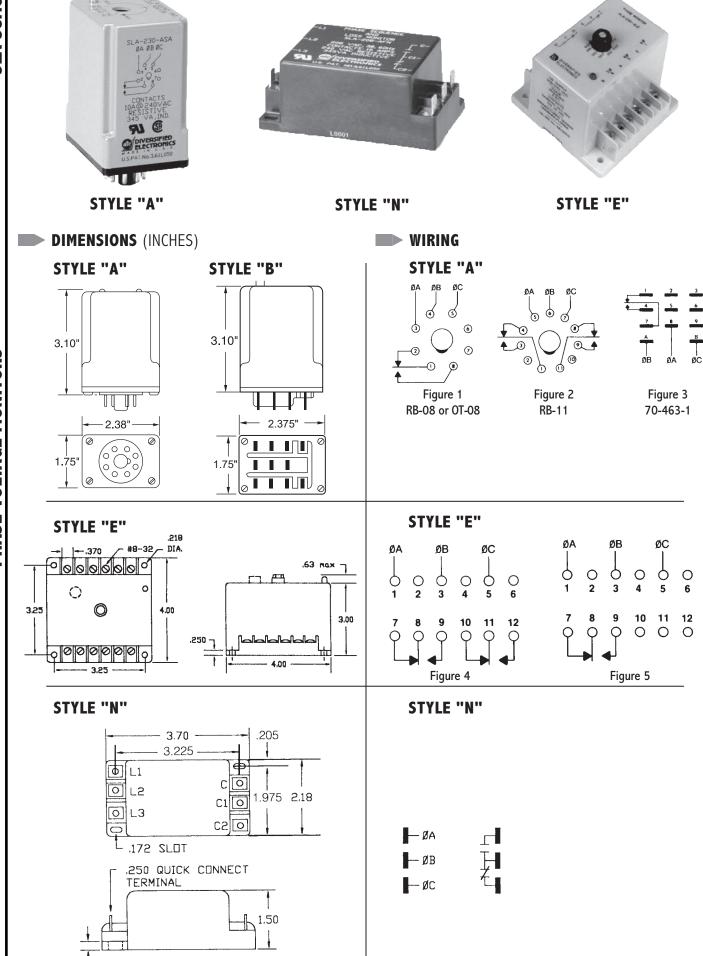
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**SLA Series** 



**SLA Series** 

**PHASE VOLTAGE MONITORS** 

185

**SLA Series** 

## **ORDERING INFORMATION**

STYLE A PLUG-IN							
MODEL	OPERATING	TYPE OF	DROP-OUT	r 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 911 us 🛛 🚯	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1	
SLA-120-ASB		Sciewaliver			_	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3	
SLA-230-ALA		Lock Shaft		c <b>RL</b> us	DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2		
SLA-230-ASA	190-270 Adj.		158-224	171-243	c <b>FLI</b> us 🚯	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1	
SLA-230-ASB		Screwdriver	Screwdriver			_	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	c Nus	
SUA-120-ALAU*	- 55-150 Auj.	Lock Shaft	75-108	05-117	c 91 us 🚯	SPDT, 345 VA Inductive; 10 Amps	
SUA-230-ALA	190-270 Adj.	158-224	171-243	CRUIS IND. CONT. EQ 496Y	Resistive @ 240 VAC, Figure 1		
SUA-230-ALAU*	- 150-270 Auj.		130-224	171-273	c 91 us 🚯		
SUA-380-ASA	350-440 Adj.	C 11	290-365	315-396	c <b>91</b> us 🚯	SPDT, 10 Amps	
SUA-440-ASA	430-480 Adj.	Screwdriver	357-398	387-432		Resistive @ 240 VAC, Figure 1	
*UL Listed only when used	with RB-08 relay socke	t; 5 Amps Resistive @	240 VAC. All voltages r	eferenced on this page	are phase-to-phase.		

\*UL Listed only when used with RB-08 relay socket; 5 Amps Resistive @ 240 VAC. All voltages referenced on this page are phase-to-phase. Models also available with fixed operating voltages. Consult factory.

STYLE E SURFACE MOUNTED ENCLOSURE						
MODEL	OPERATING	DROP-OUT	VOLTAGE		AGENCY	
NUMBER	VOLTAGE	1 Ø LOW	3 Ø LOW	RESET	APPROVAL	OUTPUT RATINGS
SLA-120-ALE	95-130 Adj.	79-108	85-117	Automatic	¢∰us ∰™ IND. CONT. EQ 496Y	DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC. Figure 4
SLA-120-ALER	55-150 Auj.			Manual	LISTER IND. CONT. EQ 496Y	DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC. Figure 4
SLA-230-ALE	- 190-270 Adj.	158-224	171-243	Automatic	IND. CONT. EQ 496Y	DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC. Figure 4
SLA-230-ALER		150-224	171-245	Manual	LISTED IND. CONT. EQ 496Y	DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC. Figure 4
SLA-380-ALE	- 350-440 Adj.	290-365	315-396	Automatic	LISTER IND. CONT. EQ 496Y	DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 4
SLA-380-ALER	550-440 Auj.	230-303		Manual	LISTED IND. CONT. EQ 496Y	SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 5
SLA-440-ALE	430-480 Adj.	30 Adj. 357-398	387-432	Automatic	LISTER IND. CONT. EQ 496Y	DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 4
SLA-440-ALER	- +30-+80 Auj.			Manual	LISTER IND. CONT. EQ 496Y	SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 5
SLA-575-ALE	525-625 Adj.	436-519	473-563	Automatic	LISTER IND. CONT. EQ 496Y	DPDT, 360 VA Inductive; 3 Amps 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 VOLTAGE	TYPE OF OPERATION	DROP-OUT	T VOLTAGE 3 Ø LOW	AGENCY APPROVAL		
INUMIDER	VOLIAGE	TIFE OF OFERATION	I U LOW	5 Ø LOW	AFFRUVAL		
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	C THUS		
SLA-240-AFN	240	Fixed	199	216			
SPDT 180VA @ 120VAC 72VA @ 24VAC All voltage referenced are phase-to-phase							

SPDT 180VA @ 120VAC; 72VA @ 24VAC; All voltage referenced are phase-to-phase. SPDT 180 va @ 120 vac, 72 va @ 24 vac.