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

DROP OUT	1 Ø Low	83% of Nominal				
VOLTAGE	3 Ø Low	90% of Nominal				
RESPONSE TIMES	Models Up to 300 VAC					
STYLE "A" & "E"	Operate	250 mSEC				
	Release	0.5 SEC				
	Models Over 3	DO 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 (Manual 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				



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

### **MODEL NUMBER**

· Available up to 480 VAC

· Delta or Wye Systems

 Several Enclosure Styles TYPICAL APPLICATIONS

• Computer Power Protection

Water Waste & Sewage Machinery

Sawmill & Woodpump Machinery

· Automatic Transfer Switching for Monitoring Emergency Power

Adjustments

• Air Handlers

•

•

**Conveyor Drive** 

Oil & Gas Pumps

Power Substation

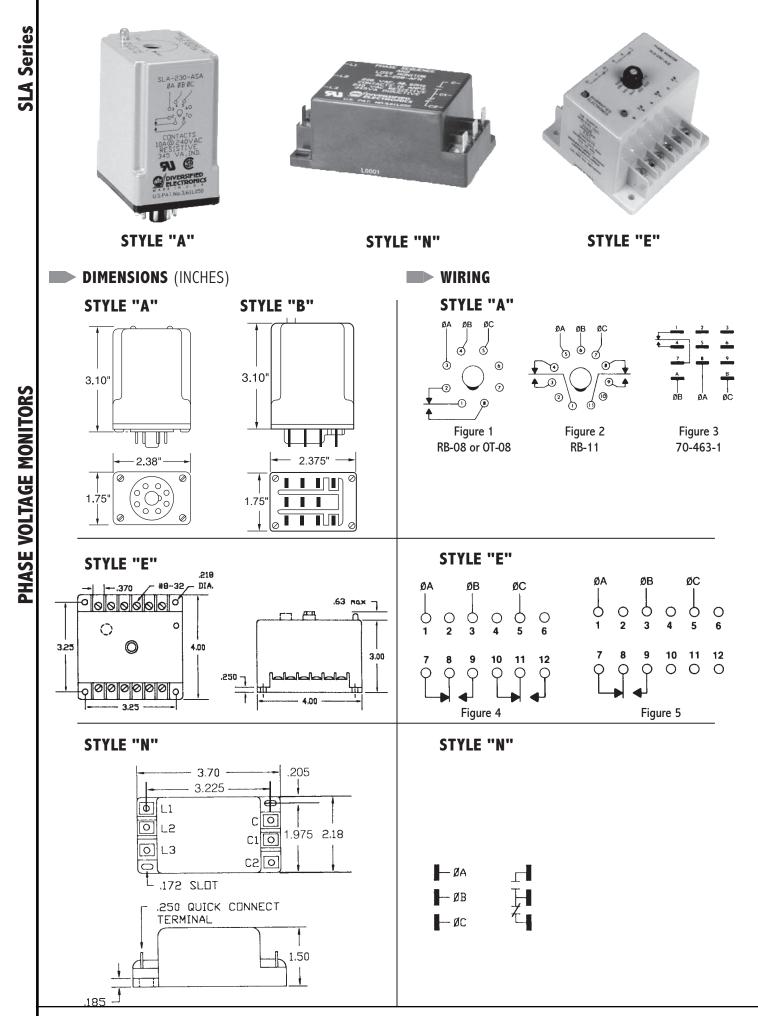
Supplies

(625 VAC with "E" style)

· Fixed, Lock Shaft, or Screwdriver

MODEL NUMBER SLA								
OPERATING VOLTAGE See Ordering Information XXX								
TYPE OF OPERATION Fixed	F							
Lock Shaft Adjusted								
Screwdriver Adjusted	Screwdriver Adjusted S							
ENCLOSURE STYLE								
Octal Plug-In Dust Cover A								
Blad Plug-In, Dust Cover B								
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								
RB-08 socket.								

**SLA Series** 



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**SLA Series** 

# **PHASE VOLTAGE MONITORS**

### **ORDERING INFORMATION**

STYLE A PLUG-IN							
MODEL	OPERATING	TYPE OF	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>W</b> 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 Screwdriver			c <b>W</b> us	DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2	
SLA-230-ASA	190-270 Adj.		dj.	158-224	171-243	c <b>M'</b> us 🚯	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
SLA-230-ASB					_	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*	55 156 Auj.	Lock Shaft				SPDT, 345 VA Inductive; 10 Amps	
SUA-230-ALA	190-270 Adj.	Lock Share	158-224	171-243		Resistive @ 240 VAC, Figure 1	
SUA-230-ALAU*	- 150-270 Auj.		130-22-7	171-245			
SUA-380-ASA	350-440 Adj.	Screwdriver	290-365	315-396		SPDT, 10 Amps	
SUA-440-ASA	430-480 Adj.	Screwariver	357-398	387-432	cAl <sup>°</sup> us 🚯	Resistive @ 240 VAC, Figure 1	

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	ARPROVAL	OUTPUT RATINGS	
SLA-120-ALE	95-130 Adj.	79 108	9-108 85-117 -	Automatic		DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC. Figure 4	
SLA-120-ALER	- 55-150 Adj.	79-100		Manual		DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC. Figure 4	
SLA-230-ALE	- 190-270 Adj.	158-224	171-243	Automatic		DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC. Figure 4	
SLA-230-ALER	- 150-270 Auj.	150-224	171-245	Manual		DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC. Figure 4	
SLA-380-ALE	– 350-440 Adj.	290-365	315-396	Automatic		DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 4	
SLA-380-ALER		230-303	515-550	Manual		SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 5	
SLA-440-ALE	– 430-480 Adj.	430.480.4di	357-398	387-432	Automatic		DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 4
SLA-440-ALER		337-330	<u> </u>	Manual		SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 5	
SLA-575-ALE	525-625 Adj.	436-519	473-563	Automatic		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		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>SN</b> us
SLA-220-AFN	220	Fixed	183	198	C THE US
SLA-240-AFN	240	Fixed	199	216	
SPDT 180VA @ 120VAC; 72VA @ 24		ase-to-phase.			

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

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mueller Electric: ISO-120-AFA SLA-230-ASA SLA-440-ALE