

Phase Monitors

• Available up to 480 VAC **PROTECTS 3-PHASE** (625 VAC with "E" style)

- · Delta or Wye Systems
- · Fixed, Lock Shaft, or Screwdriver Adjustment
- Several Enclosure Styles
- TYPICAL APPLICATIONS:
- Air Handlers
- Computer Power Protection
- Conveyor Drive
- Water Waste & Sewage Machinery
- Oil & Gas Pumps
- · Sawmill & Woodpump Machinery
- Power Substation
- · Automatic Transfer Switching for **Monitoring Emergency Power** Supplies

- **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

MODEL NUMBER	SLA		A				
OPERATING VOLTAGE							
See Ordering Informati							
TYPE OF OPERATION			•				
Fixed							
Lock Shaft Adjusted	Lock Shaft Adjusted L						
Screwdriver Adjusted							
ENCLOSURE STYLE							
Octal Plug-In, Dust Cover A							
Blade 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,						R	
(available only in style "E" enclosure)							
Plug-In models are UL listed only when used with					U		
RB-08 relay socket.	•						

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 300 VAC				
	Operate	1.0 SEC			
	Release	2.0 SEC			
RESPONSE TIMES	Operate	60 mSEC			
STYLE "N"	Release	0.5 SEC			
POWER	Style "A"	3 VA (approx.)			
REQUIRED	Style "E"	Models up to 300 VAC: 3 VA (max.)			
	-	Models over 300 VAC: 7 VA (max.)			
		Models over 500 VAC: 3 VA (max.)			
	Style "N"	3 VA (max.)			
OPERATING VOLTAGE	See Ordering Information				
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 +55°C)			
RATING	Storage	-49° to 185°F (-45° to +85°C)			
U.S. PATENT NUMBER	3,611,050				
WEIGHT	Style "A"	NET: 2.24 oz Shipping: 2.56 oz			
	Style "E"	NET: 4.8 oz Shipping: 5.76 oz			
	Style "N"	NET: 5.3 oz Shipping: 5.6 oz			

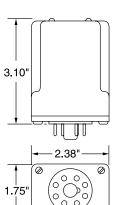


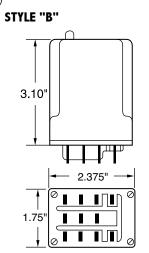




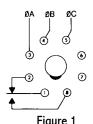














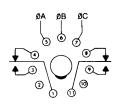


Figure 2 RB-11

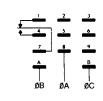
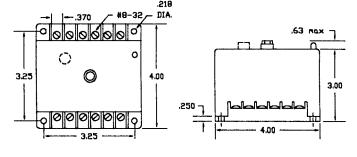
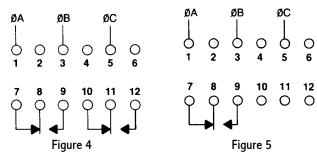


Figure 3 70-463-1

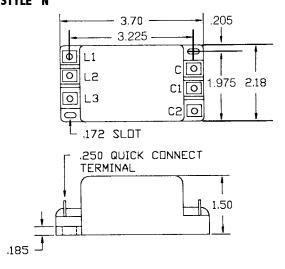
STYLE "E"



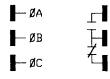




STYLE "N"



STYLE "N"



ORDERING INFORMATION

STYLE A PLUG-IN

STILE AT LOU-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 71 °us (P	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1	
SLA-120-ASB		Screwariver			_	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3	
SLA-230-ALA		Lock Shaft 70 Adj.			c 91 °us	DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2	
SLA-230-ASA	190-270 Adj.		158-224	171-243	c 711 °us €	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1	
SLA-230-ASB		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 91 0s		
SUA-120-ALAU*	33-130 Auj.	Lock Shaft	75 100	03 117	IND. CONT. EQC SU'US	SPDT, 345 VA Inductive; 10 Amps	
SUA-230-ALA	190-270 Adj.	Lock Share	158-224	171-243	c 911 °us (IP	Resistive @ 240 VAC, Figure 1	
SUA-230-ALAU*	155 276 ruj.		130 221	.,,	IND. CONT. EQ _C SU [*] US		
SUA-380-ASA	350-440 Adj.	Screwdriver	290-365	315-396	6	SPDT, 360 VA Inductive; 10 Amps	
SUA-440-ASA	430-480 Adj.	Sciewalivel	357-398	387-432	3 1. 01 1.02 0	Resistive @ 240 VAC, Figure 1	

^{*}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				Automatic	IND. CONT. EQ C Us	DPDT, 211 VA Inductive; 10 Amps
JEA-120-ALL	95-130 Adj.	79-108	85-117	Automatic	496Y LISTED	Resistive @ 120 VAC. Figure 4
SLA-120-ALER	33-130 Auj.	75-100	05-117	Manual	IND. CONT. EQ CULSTED US	DPDT, 211 VA Inductive; 10 Amps
JEA-120-ALLIN				riailudi	496Y LISTED	Resistive @ 120 VAC. Figure 4
SLA-230-ALE		158-224	171-243	Automatic	IND. CONT. EQ CUL US	DPDT, 345 VA Inductive; 5 Amps
JLN-230-ALL	190-270 Adj.				496Y LISTED	Resistive @ 240 VAC. Figure 4
SLA-230-ALER	130-270 Auj.	130-224	171-243	Manual	IND. CONT. EQ CUDUS	DPDT, 345 VA Inductive; 5 Amps
JEN-EJO-NEEN				rianuai	496Y LISTED	Resistive @ 240 VAC. Figure 4
SLA-380-ALE				Automatic	IND. CONT. EQ CUDUS	DPDT, 360 VA Inductive; 3 Amps
JEN-300-ALL	350-440 Adj.	290-365	315-396	Automatic	496Y LISTED	Resistive @ 600 VAC. Figure 4
SLA-380-ALER	350 110 Maj.	250 505	313 330	Manual	IND. CONT. EQ CUD US 496Y	SPDT, 360 VA Inductive; 3 Amps
JEN-300-ALLII				rianuai	496Y LISTED	Resistive @ 600 VAC. Figure 5
SLA-440-ALE				Automatic	IND. CONT. EQ CUD US 496Y LISTED	DPDT, 360 VA Inductive; 3 Amps
JEN-440-ALL	430-480 Adj.	357-398	387-432	Automatic	496Y LISTED	Resistive @ 600 VAC. Figure 4
SLA-440-ALER	130 100 Auj.	35,-330	30,-432	Manual	IND. CONT. EQ CULUS US	SPDT, 360 VA Inductive; 3 Amps
JEN-TTO-NEER				rianuai	496Y LISTED	Resistive @ 600 VAC. Figure 5
SLA-575-ALE	525-625 Adj.	436-519	473-563	Automatic	IND. CONT. EQ CUD US	DPDT, 360 VA Inductive; 3 Amps
JEN-37 J-NEE	323-023 Auj.	7502515	47.52505	Automatic	496Y LISTED	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 VOLTAGE		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 SU ®us	
SLA-220-AFN	220	Fixed	183	198	C TLUS	
SLA-240-AFN	240	Fixed	199	216		
All voltage referenced are phase-to	-phase.					