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 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 C	perate 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 "N" Style "N" Style "E"

 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
- Sawmill & Woodpump Machinery
- Power Substation
- Automatic Transfer Switching for Monitoring Emergency Power Supplies

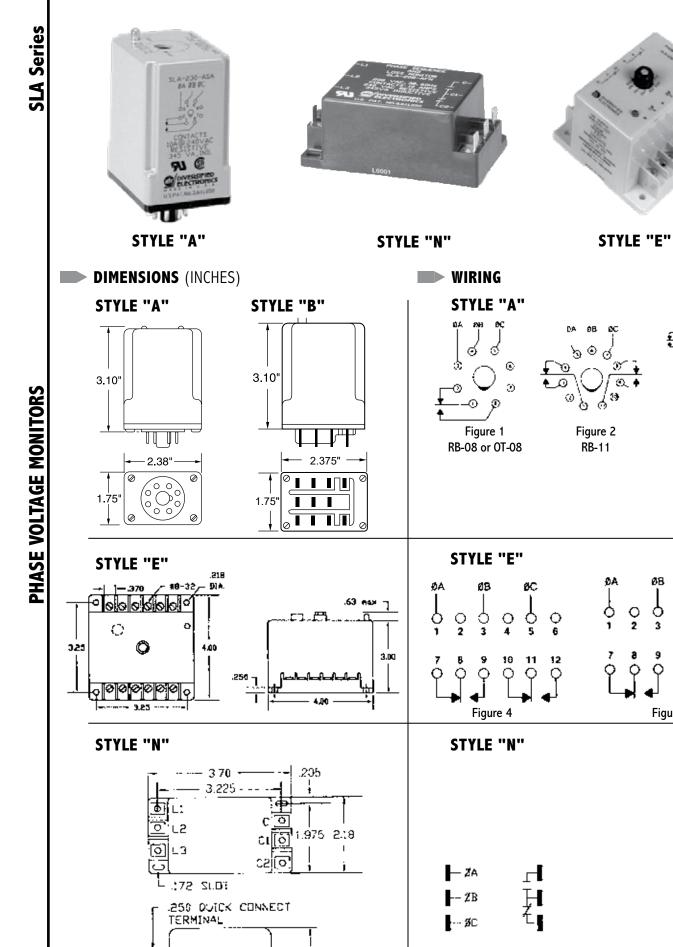
MODEL NUMBER

MODEL NUMBER SLA		Α			
OPERATING VOLTAGE See Ordering Information	ххх				
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	s			Е	
Surface Mounted, 1/4" Quick Disconn	ect Terr	ninals		Ν	
OPTIONS					
Add R Suffix when manual reset is req	quired,				R
(Available only in Style "E" Enclosure	e)				
Plug-In models are UL Listed only whe	en used	l with			U
RB-08 socket.					



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



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Figure 3

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Figure 5

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SLA Series

ORDERING INFORMATION

				STYLE A PLUG-IN		
MODEL	OPERATING	TYPE OF	DROP-OU	T 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) Adj Screwdriver	79-108	85-117	c 911 'us 🚯	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
SLA-120-ASB		Screwaniver			—	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3
SLA-230-ALA		Lock Shaft			c FL °us	DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2
SLA-230-ASA	190-270 Adj.		158-224	171-243	c 91) us 🚯	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
SLA-230-ASB		Screwdriver	crewdriver		_	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*	95-130 Adj.	Lock Shaft	75-100	05-117		SPDT, 345 VA Inductive; 10 Amps
SUA-230-ALA	- 190-270 Adj.	LUCK Shart	158-224	171-243		Resistive @ 240 VAC, Figure 1
SUA-230-ALAU*	- 150-270 Auj.		130-224	1/1-243		
SUA-380-ASA	350-440 Adj.	6 J.	290-365	315-396	6	SPDT, 10 Amps
SUA-440-ASA	430-480 Adj.	Screwdriver	357-398	387-432	c Al 'us 🔇 🕑	Resistive @ 240 VAC, Figure 1
*UL Listed only when used Models also available with			240 VAC. All voltages r	eferenced on this page a	re phase-to-phase.	

			STYLE E S	URFACE MOUNTED EN	ICLOSURE	
MODEL	OPERATING	DROP-OUT VOLTAGE			AGENCY	
NUMBER	VOLTAGE	1 Ø LOW	3 Ø LOW	RESET	ARPROVAL	OUTPUT RATINGS
SLA-120-ALE	05 120 44	79-108	85-117 -	Automatic		DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC. Figure 4
SLA-120-ALER	95-130 Adj.	79-108		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	130-270 Auj.	130-224	171-243	Manual		DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC. Figure 4
SLA-380-ALE	350-440 Adj.	0 Adj. 290-365	315-396 -	Automatic		DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 4
SLA-380-ALER	- 550-440 Auj.			Manual		SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 5
SLA-440-ALE	430-480 Adj.	357-398	387-432 -	Automatic		DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 4
SLA-440-ALER	- 450-480 Adj.	337-330		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

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 AV ®us
SLA-220-AFN	220	Fixed	183	198	
SLA-240-AFN	240	Fixed	199	216	1

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