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"	MES Operate 60 mSEC Release 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 al	l conditions are Normal					
	(On Applicable	e Models)					
OUTPUT RATING	SPDT (Style "A" and "N") DPDT (Style "E")						
PHASE SEQUENCE	ABC (Will not 0	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					



PROTECTS 3-PHASE EQUIPMENT

- 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

- PROTECTS 3-PHASE EQUIPMEN 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			Α				
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	Blad Plug-In, Dust Cover B							
Surface Mounted, #8 Scr	Surface Mounted, #8 Screw Terminals E							
Surface Mounted, 1/4" Qu	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 socket.								







STYLE "A"

STYLE "N"

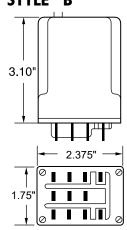
STYLE "E"

DIMENSIONS (INCHES)

STYLE "A"

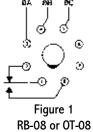
3.10" TŲ JŪ 2.38'

STYLE "B"



▶ WIRING





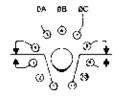
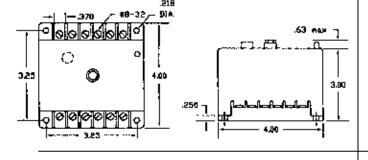




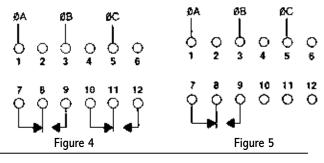
Figure 2 RB-11

Figure 3 70-463-1

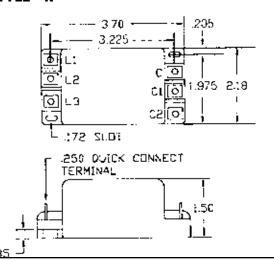
STYLE "E"



STYLE "E"



STYLE "N"



STYLE "N"

ORDERING INFORMATION

ST		Α		G-	

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	Screwdriver	79-108	85-117	€ su° UR 3	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			c '71 °us	DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2
SLA-230-ASA	190-270 Adj.		158-224	171-243	€ 2 1/2 0s	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 M °us (
SUA-120-ALAU*	33 130 Auj.	Lock Shaft	75 100	03 117	c All us 🕡	SPDT, 345 VA Inductive; 10 Amps
SUA-230-ALA	190-270 Adj.	LOCK SHARE	158-224	171-243	c qu °us (Resistive @ 240 VAC, Figure 1
SUA-230-ALAU*	130 270 Auj.		130-224	171-243	C AND LEG	
SUA-380-ASA	350-440 Adj.	Screwdriver	290-365	315-396	-x. @	SPDT, 10 Amps
SUA-440-ASA	430-480 Adj.		357-398	387-432	c AL °us (F	Resistive @ 240 VAC, Figure 1
*III Listed only when used	with RR_OS relay socke	t. 5 Amne Recistive @	240 VAC All voltages r	eferenced on this name	are nhace-to-nhace	

^{*}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	ARP:ROVAL	OUTPUT RATINGS	
SLA-120-ALE	95-130 Adj.	79-108	85-117	Automatic	CONT. EQ CONT. EQ UNIDP	DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC. Figure 4	
SLA-120-ALER	33-130 Auj.	75-100	03-117	Manual	CONT. EQ	DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC. Figure 4	
SLA-230-ALE	190-270 Adj.	158-224	171-243	Automatic	CONT. EQ CUPO US	DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC. Figure 4	
SLA-230-ALER	1 190-270 Auj.	130-224	171-243	Manual	CONT. EQ CONT. EQ	DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC. Figure 4	
SLA-380-ALE	350-440 Adj.	290-365	315-396	Automatic	CONT. EQ	DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 4	
SLA-380-ALER	330-440 Auj.	230-363	313-330	Manual	CONT. EQ	SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 5	
SLA-440-ALE	430-480 Adj.	357-398	387-432	Automatic	CONT. EQ	DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 4	
SLA-440-ALER	7 730-780 Auj.	33, 330	307- 1 32	307-432	Manual	CONT. EQ	SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC. Figure 5
SLA-575-ALE	525-625 Adj.	436-519	473-563	Automatic	C UNI. EQ US	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 SU ®us
SLA-220-AFN	220	Fixed	183	198	C TABUS
SLA-240-AFN	240	Fixed	199	216	

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