

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.



Phase Monitors

SPECIFICATIONS

DROP-OUT VOLTAGE	1 Ø Low	83% of Nominal
	3 Ø Low	90% of Nominal
RESPONSE TIMES STYLE "A" & "E"	<i>Models Up to 300 VAC</i>	
	Operate	250 mSEC
	Release	0.5 SEC
	<i>Models Over 300 VAC</i>	
RESPONSE TIMES STYLE "N"	Operate	60 mSEC
	Release	0.5 SEC
POWER REQUIRED	Style "A"	3 VA (approx.)
	Style "E"	<i>Models up to 300 VAC: 3 VA (max.) Models over 300 VAC: 7 VA (max.) Models over 500 VAC: 3 VA (max.)</i>
	Style "N"	3 VA (max.)
OPERATING VOLTAGE	See Ordering Information	
RESET	Automatic (Manual Optional)	
INDICATOR LED	Glows when all conditions are Normal <i>(On Applicable Models)</i>	
OUTPUT RATING	SPDT (style "A" and "N") DPDT (style "E")	
PHASE SEQUENCE	ABC (Will Not Operate CBA)	
TEMPERATURE RATING	Operate	32° to +131°F (0° to +55°C)
	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

- Available up to 480 VAC
- 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

PROTECTS 3-PHASE EQUIPMENT AGAINST:

- Phase Loss
- Under Voltage
- Phase Reversal

- Automatic Transfer Switching for Monitoring Emergency Power Supplies
- Irrigation Pumps
- Lift Station Pumps
- Robotics Equipment
- Elevator Drives
- Commercial/Industrial Air Conditioning & Refrigeration Compressors

MODEL NUMBER >>>>>>	SLA	A			
Operating Voltage					
See Ordering Information					
Type of Operation					
	Fixed	F			
	Lock Shaft Adjusted	L			
	Screwdriver Adjusted	S			
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, (available only in style "E" enclosure)				R
	Plug-In models are UL listed only when used with RB-08 relay socket.				U



Style "A"



Style "N"

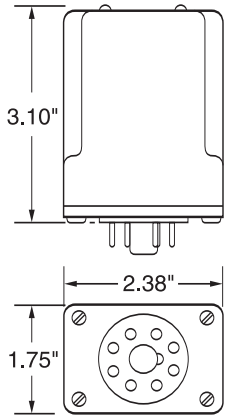


Style "E"

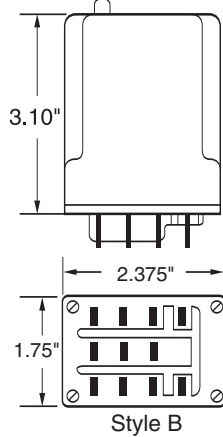
For UL Listed units, copper wire with 60°/75°C rating must be used for control circuitry connections.

DIMENSIONS (INCHES)

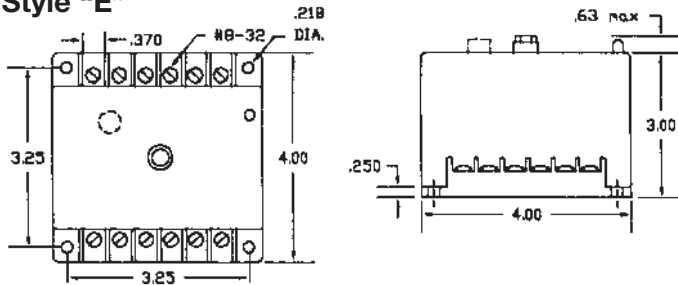
Style "A"



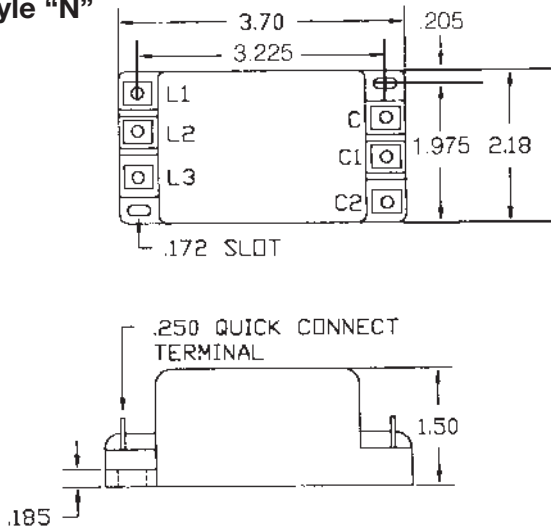
Style "B"



Style "E"

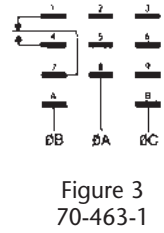
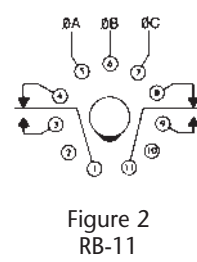
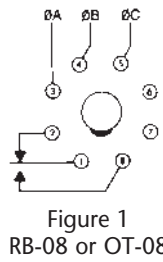


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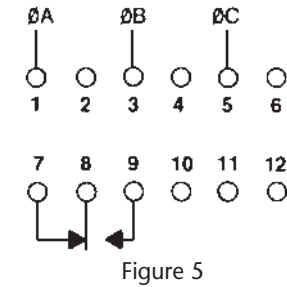
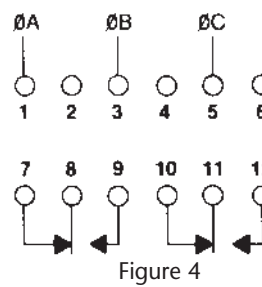


WIRING

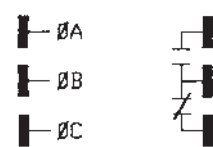
Style "A"



Style "E"

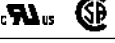


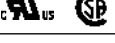

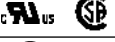

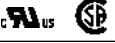




Style "N"












ORDERING INFORMATION

STYLE A PLUG-IN

MODEL NUMBER	OPERATING VOLTAGE	TYPE OF ADJUSTMENT	DROP-OUT VOLTAGE		AGENCY APPROVAL	OUTPUT RATINGS
			1 Ø LOW	3 Ø LOW		
<b>SLA-120-ALA</b>	95-130 Adj.	Lock Shaft	79-108	85-117	—	DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2
<b>SLA-120-ASA</b>		Screwdriver				SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
<b>SLA-120-ASB</b>						SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3
<b>SLA-230-ALA</b>	190-270 Adj.	Lock Shaft	158-224	171-243		DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2
<b>SLA-230-ASA</b>		Screwdriver				SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
<b>SLA-230-ASB</b>						SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3
<b>SLA-380-ASA</b>	350-440 Adj.	Screwdriver	290-365	315-396	—	SPDT, 360 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
<b>SLA-440-ASA</b>	430-480 Adj.		357-398	387-432		
<b>SUA-120-ALA</b>	95-130 Adj.	Lock Shaft	79-108	85-117		SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
<b>SUA-120-ALAU*</b>						
<b>SUA-230-ALA</b>	190-270 Adj.	Screwdriver	158-224	171-243		
<b>SUA-230-ALAU*</b>						
<b>SUA-380-ASA</b>	350-440 Adj.	Screwdriver	290-365	315-396		SPDT, 360 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
<b>SUA-440-ASA</b>	430-480 Adj.		357-398	387-432		


\*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 NUMBER	OPERATING VOLTAGE	DROP-OUT VOLTAGE		RESET	AGENCY APPROVAL	OUTPUT RATINGS
		1 Ø LOW	3 Ø LOW			
<b>SLA-120-ALE</b>	95-130 Adj.	79-108	85-117	Automatic		DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC, Figure 4
<b>SLA-120-ALER</b>				Manual		DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC, Figure 4
<b>SLA-230-ALE</b>	190-270 Adj.	158-224	171-243	Automatic		DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC, Figure 4
<b>SLA-230-ALER</b>				Manual		DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC, Figure 4
<b>SLA-380-ALE</b>	350-440 Adj.	290-365	315-396	Automatic		DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 4
<b>SLA-380-ALER</b>				Manual		SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 5
<b>SLA-440-ALE</b>	430-480 Adj.	357-398	387-432	Automatic		DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 4
<b>SLA-440-ALER</b>				Manual		SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 5
<b>SLA-575-ALE</b>	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 NUMBER	OPERATING VOLTAGE	TYPE OF OPERATION	DROP-OUT VOLTAGE		AGENCY APPROVAL
			1 Ø LOW	3 Ø LOW	
<b>SLA-120-AFN</b>	120	Fixed	100	108	
<b>SLA-208-AFN</b>	208	Fixed	173	187	
<b>SLA-220-AFN</b>	220	Fixed	183	198	
<b>SLA-240-AFN</b>	240	Fixed	199	216	

All voltage referenced are phase-to-phase.