Voltage Monitors



The PLS Series is a low cost phase sensitive control that provides an isolated contact closure when the proper A-B-C phase sequence is applied. Protects sensitive 3-phase equipment and equipment operators from reverse rotation. Designed to be compatible with motor overloads or other 3-phase equipment protection devices. Protection for equipment control centers where frequent reconnection or electrical code makes reverse rotation protection essential. Examples include: mobile refrigerated containers, construction equipment, hoists, pumps, conveyors, elevators and escalators.

For more information see:

Appendix B, page 166, Figure 19 for dimensional drawing. Appendix C, page 168, Figure 13 for connection diagram.

Operation

The internal relay and LED are energized when the phase sequence is correct. The output relay will not energize if the phases are reversed. Reset is automatic upon correction of the fault.

Features:

- · Protects against phase reversal
- Low cost protection, one unit for all sized motors
- 3-wire connection for dela or wye systems • Octal base connect - industry standard
- wiring

 Isolated, SPDT output contacts
- Factory calibrated no adjustments required Approvals: (E R) (

Auxilary Products:

- Panel mount kit: P/N: BZ1
- Octal 8-pin socket: P/N: OT08PC • 3-phase fuse block/disconnect:
- P/N: FH3P
- 2 Amp fuse: P/N: P0600-11 • Din rail: P/N: C103PM (Al)

Available Models:

PLS120A PLS240A PLS480A

Order Table:

Voltage	Part Number
120VAC	PLS120A
208/240VAC	PLS240A
380/415VAC	PLS380A
440/480VAC	PLS480A

Specifications

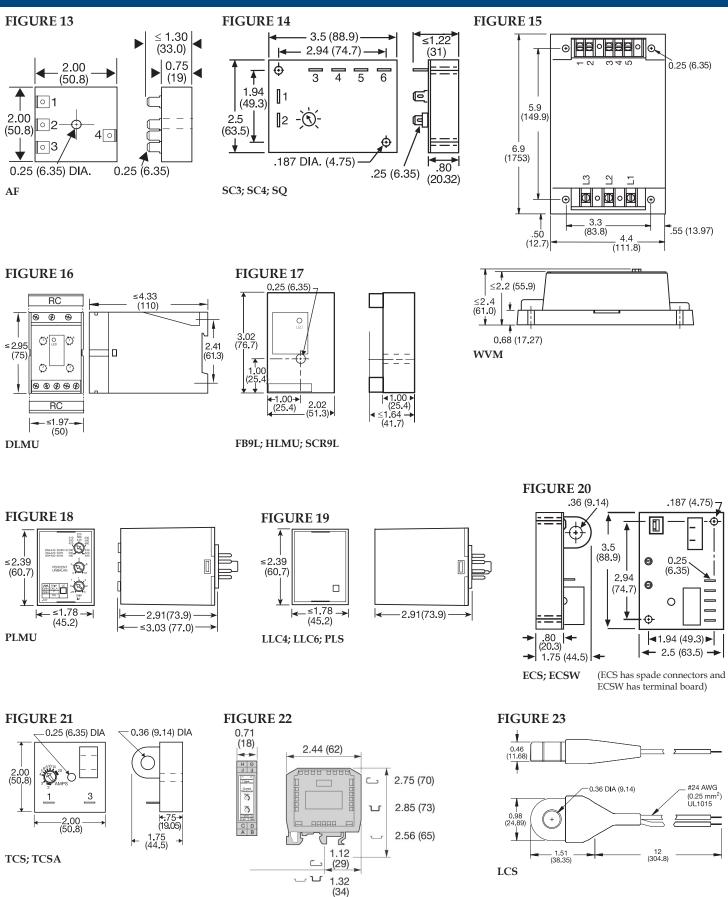
Line Voltage			
Type		3-phase delta or wy	re with no connection to neutral
Nominal V	/oltage	Minimum Voltage	Maximum Voltage
120VA	.C	95VAC	135VAC
208/240V	AC	175VAC	255VAC
380/415V	AC	310VAC	430VAC
440/480V	AC	380VAC	500VAC
AC Line Frequency		50/60 Hz	
Phase Sequence		ABC	
Response Times			
Pull-in		≤300ms	
Drop-out		≤50ms	
Output			
Туре		Electromechanical	relay, energized when the
		phase sequence is a	correct
Form		Isolated SPDT	
Rating	120 & 240VAC	C 10A resistive @ 240	VAC
	380 & 480VA0	C8A resistive @ 240V	/AC

Maximum Voltage......250VAC

Protection	
Isolation Voltage	120 & 240VAC≥ 1500V RMS input to output
0	380 & 480VAC≥ 2500V RMS input to output
Mechanical	A A
Mounting*	Plug-in socket
Dimensions	
Termination	Octal 8-pin plug-in
Environmental	
Operating / Storage Terr	nperature40°to 55°C / -40° to 85°C
Weight	≅ 6 oz (170 g)

*CAUTION: Select an octal socket rated for 600VAC operation.

Appendix B - Dimensional Drawings



DCSA

inches (millimeters)

Appendix C - Connection Diagrams

