

Class 200 Equipment

PRS 250 VERI-SYNC RELAY

APPLICATION:

- The Basler PRS250 VERI-SYNC relay is a solid state verifying or permissive type synchronizer. The Veri-Sync allows manual synchronization of the generating systems when the systems are within predetermined limits.
- The Veri-Sync compares frequency, phase angle and voltage between an oncoming generator and bus.
- Protects systems and generators from electrical and mechanical transients due to improper synchronization.
- Applicable on generators rated up to 2000 KVA.
- CSA approved.



VERI-SYNC PARTICULARS: (Operating Range)

INPUT	GENERATOR	BUS
Voltage	65 to 140 or 130 to 305 VAC	65 to 140 or 130 to 305 VAC
Frequency	45 to 65 Hertz	45 to 65 Hertz
Phase	Single	Single
Burden	6 VA at 0.9 P.F.	6 VA

Voltage Acceptance Band:	6.6 percent of bus voltage (*1)	Vibration:	Withstands 1.3 G's from 5 to 26 cps, .036 in. Double Amplitude from 26 to 52 cps, and 5 G's from 52 to 260 cps without damage or degradation of performance.
Slip Rate (maximum):	0.5 Hertz (*1)	Shock:	15 G's in any plane.
Phase Angle (Adj.):	0 to $\pm 20^\circ$ (*2)	Dimensions:	7.12" x 7.10" x 3.31"
Output Contacts:	SPDT	Maximum Weight:	Net 6.5 pounds, shipping 7.5 pounds.
Contact Rating:	1.0 amps @ 125 VDC	Instruction Manual Reference:	A90 88800 991
(non inductive)	7.5 amps @ 208 VAC		
Operating Temperature:	-40°C to +70°C.		

(*1) Bus at 120 V, 60 Hz, phase angle set at 20°.
(*2) Incoming and bus 120 V, 60 Hz, 0° Hz slip.

 **Basler Electric**
Highland, Illinois

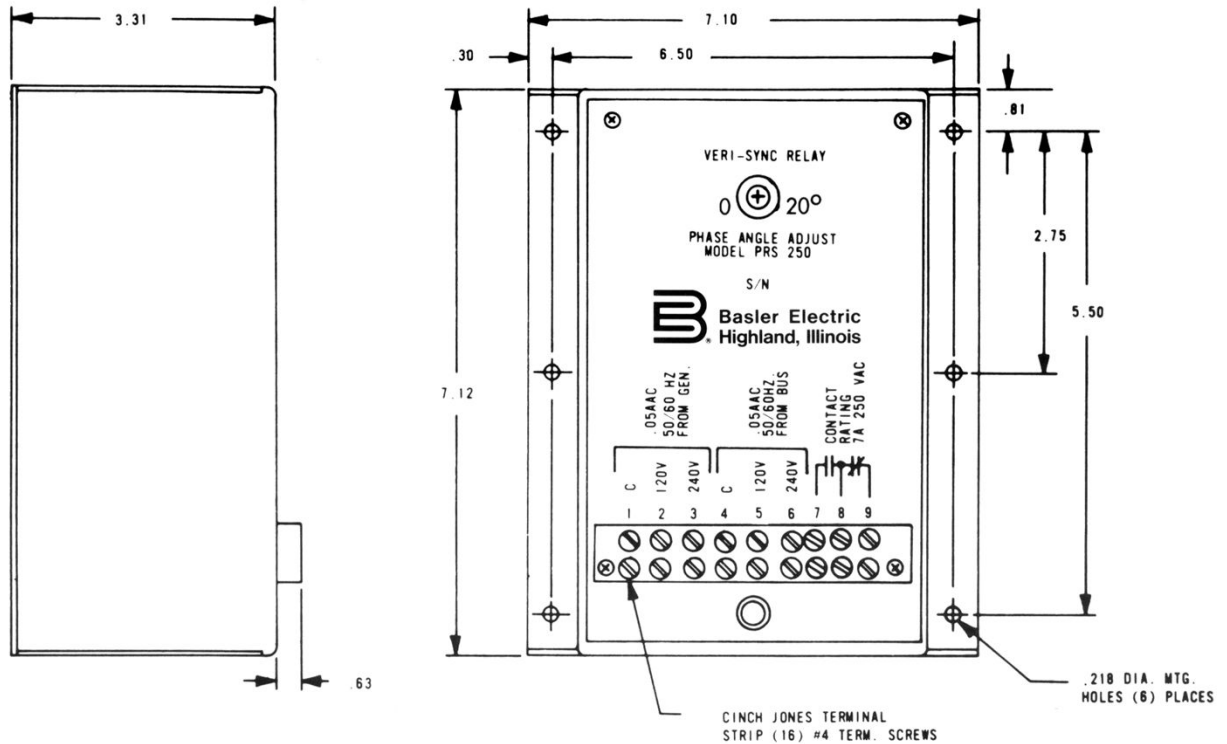
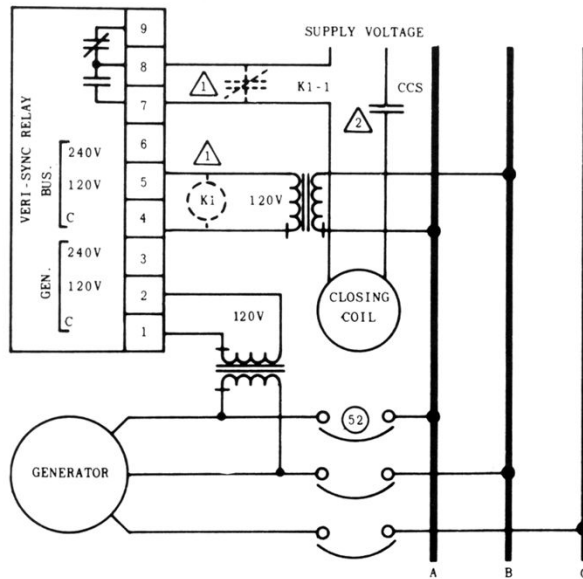


FIGURE 1 — OUTLINE AND MOUNTING DRAWING

NOTE: This drawing is not intended for installation purposes. Refer to Operation Manual received with equipment for proper installation drawings.



- 1 CUSTOMER SUPPLIED RELAY FOR DEAD BUS PICK-UP.
- 2 CCS—CLOSING COIL SWITCH.

HOW TO ORDER:

Model Number and description define the equipment:

Model Number	Description
PRS250	Veri-Sync Relay

NOTE: Provision should be made for manual voltage and speed control.

FIGURE 2 — TYPICAL INTERCONNECTION DIAGRAM

NOTE: All drawings and data subject to change without notice.

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