

Technical service bulletin 21

December 20, 2006

Subject

Increasing the current (load) capabilities of Supra controls using PLC-2S or PSU-20 Single-Phase Slaves.



Issue

You can increase the load capabilities of the Supra's variable stages 3 and 4 by connecting slave units.

Resolution

You can connect up to three slave units to each variable stage. Each slave unit increases the current capacity of the stage it is connected to by 20A.

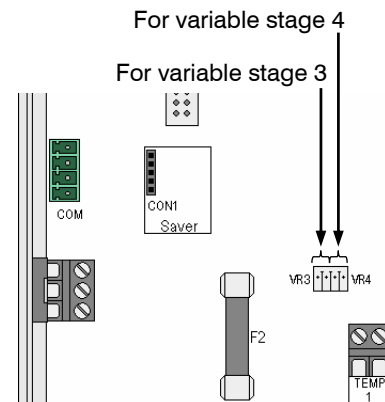
The load controlled by the slaves *must* use the same phase as the Supra.

NOTE It is possible to connect up to six slaves to one Supra. For sites with three phase power, it is preferable to use three Supras so loads are distributed evenly across all three phases.

Where to connect the slave unit to the Supra

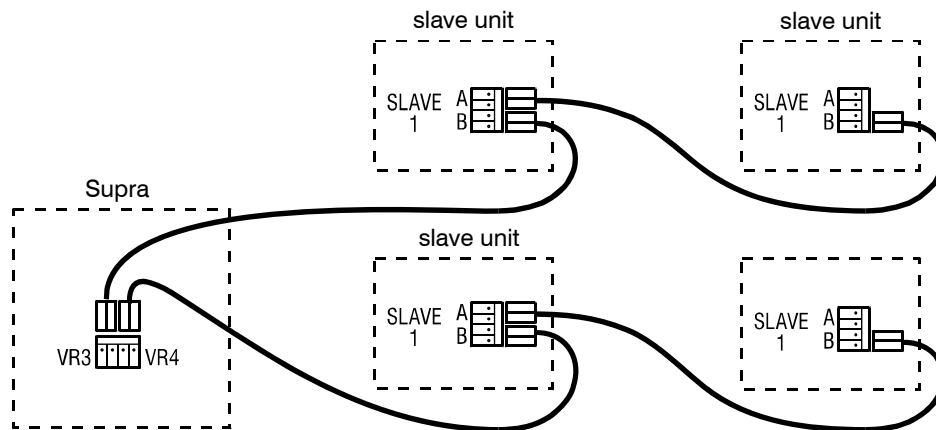
There are two connectors in the Supra labeled **VR3** and **VR4**. The VR3 and VR4 connectors are for connecting slaves units to variable stages 3 and 4 respectively.

NOTE Follow the instructions and guidelines in the PLC-2S/PSU-20 installation guide when installing slave units and connecting them to the Supra.



Installing and connecting the slave units

The following example shows the slave cable connections for connecting two slaves to variable stage 3 and two slaves to variable stage 4.



Connecting load wires to the slaves is similar to connecting load wires to the Supra's variable stages. All slaves and Supra variable stages must use the same phase as the Supra control.

Complete all the steps below according to the instructions and guidelines in the Slave unit's installation guide.

1. Mount and install the Supras and slave units. Make sure to mound the Supras and slaves close enough that the slave cables can reach. Longer slave cables are not available.
2. Connect the slave cables from the slaves to the appropriate connector (VR3 for stage 3, VR4 for stage 4) in the Supra.
3. Connect the load wires to the slave units.

If you have any questions, contact Phason Customer Support.

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