

Instructions for Separate Source Power Supply Module

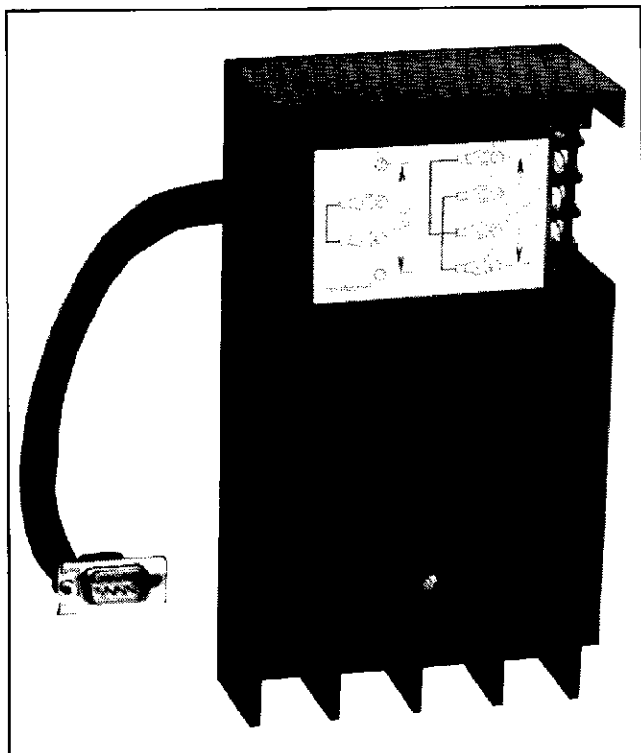


Fig. 1 Separate Source Power Supply Module

THE MODULE

The Separate Source Power Supply Module (SSPSM) is designed for use with the IQ Data Plus and IQ Data Plus II metering/protective devices. The SSPSM will enable either of these devices to be powered from an independent 120 or 240 VAC single-phase power source.

In applications using either the IQ Data Plus (all styles) or the IQ Data Plus II (Style 2D78522G01), power for these units is derived from the line that is being monitored. By replacing the Three-Phase Power Module on these devices with a single-phase SSPSM, control power can be obtained from a separate 120/240 VAC power source. The SSPSM can be easily retrofitted into existing IQ Data Pluses or IQ Data Plus II's.

INSTALLATION

This device is designed to be installed, operated, and maintained by adequately trained workmen. These instructions do not cover all details, variations, or combinations of the equipment, its storage, delivery, installation, check-out, safe operation, or maintenance. Care must be exercised to comply with local, state, and national regulations, as well as safety practices, for this class of equipment.

CAUTION: Remove all power from (de-energize) the device to which the Separate Source Power Supply Module is being attached or wired; otherwise, serious or fatal personal injury and equipment damage may result.

REMOVING EXISTING POWER MODULE

Disconnect all power to the IQ Data Plus (II), including power to the relay contacts of the device. Clearly mark wire connections to the voltage terminal block. Refer to Figure 3 or your IQ Data Plus (II) technical manual. If replacing an existing Separate Source Power Supply Module then clearly mark the wire connections to the SSPSM separate source power connection terminal block. Disconnect all wires from the existing Power Module.

Unscrew the plug lock assembly on the ribbon cable from the IQ Data Plus (II) chassis and remove the cable from the Power Module Connector. Carefully remove the two mounting screws that secure the Power Module to the chassis.

CAUTION: Be prepared to support the power module once the screws have been removed.

MOUNTING TO IQ DATA PLUS OR IQ DATA PLUS II

Place the Separate Source Power Supply Module in its mounting position on the rear of the IQ Data Plus (II) chassis as shown in Figure 3. Replace the two mounting screws to secure the SSPSM. Reconnect all wires to the SSPSM. Connect the ribbon cable of the SSPSM to the Power Module Connector on the IQ Data Plus (II) and screw the plug lock assembly tight.

REMOTE MOUNTING OF THE SSPSM

In those cases where it is necessary to mount the SSPSM separately from the chassis, be sure that:

- (1) The location allows for a cable connection between the IQ Data Plus (II) chassis and the SSPSM by means of the 36 in. Extension Cable Option (Style 7871A40G02).
- (2) The SSPSM can physically fit in the location desired (See Figure 2).

To mount the SSPSM, use the module as a drilling

template at the new location. The two #8-32 screws can be used to remount the module in holes properly drilled and tapped.

Reconnect all wires to the SSPSM. Connect the ribbon cable to the Power Module Connector on the IQ Data Plus (II) and screw the plug lock assembly tight.

OPERATION CHECK

The appropriate wiring configuration for 120 or 240 VAC operation is shown on the wiring label attached to

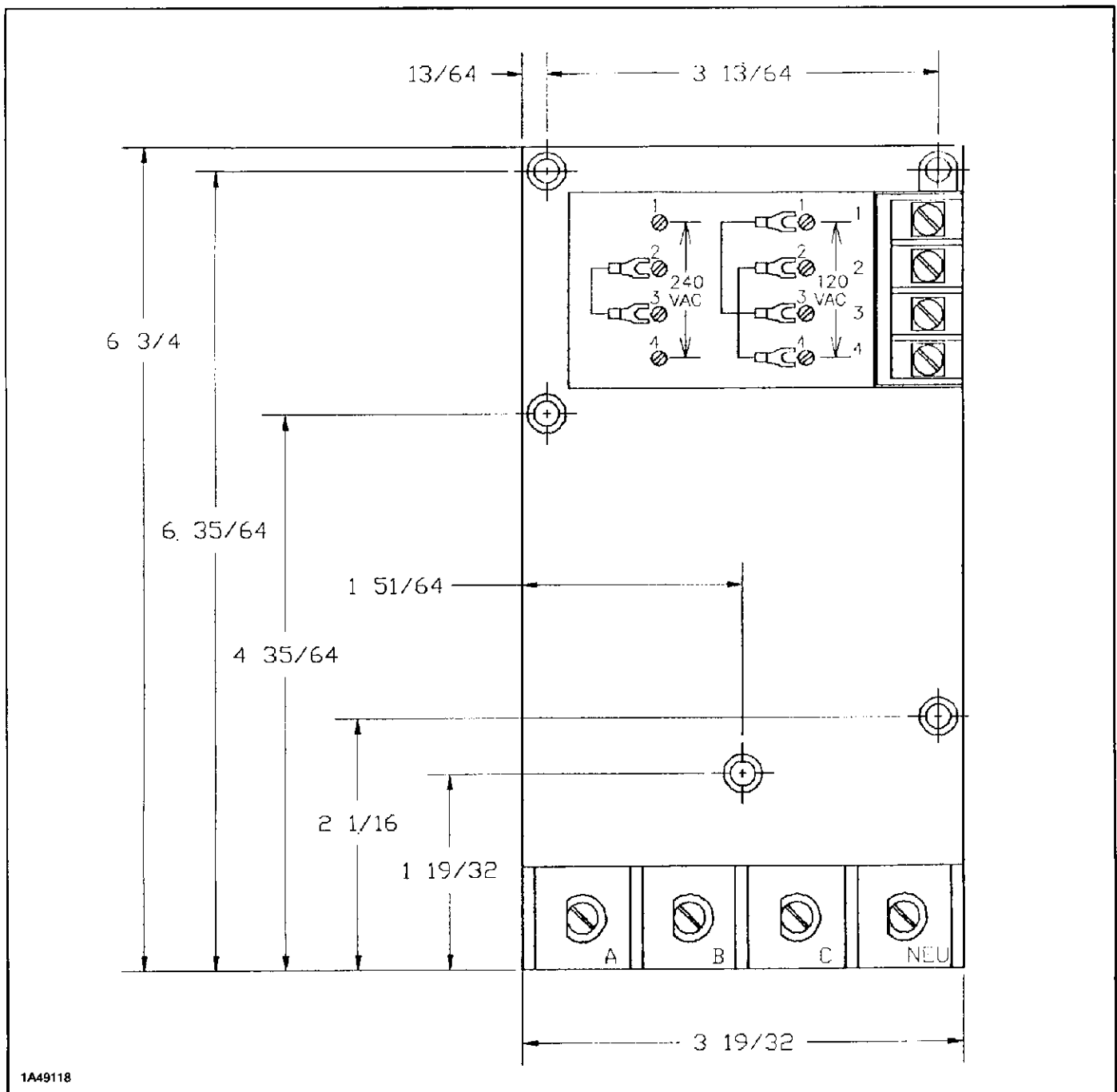


Fig. 2 Outline and Mounting Dimension Drawing (Dimensions in inches)

the rear of the SSPSM. This is also shown in Figures 2 and 3. For 120 VAC operation, jumpers must be installed from terminals 1 to 3 and 2 to 4. For 240 VAC operation, a jumper must be installed from terminals 2 to 3.

Verify that the appropriate jumpers have been installed on the SSPSM for your application. Apply control power to the IQ Data Plus (II) across terminals 1 and 4 of the SSPSM. The front display of the IQ Data Plus (II) should now be lit. If the device is not powered, remove power coming to the SSPSM and check the wiring diagrams, device connections and fuses. Restore con-

trol power.

Restore AC line power to the IQ Data Plus (II) and check readings on the unit. If the readings do not check out, or a trip or alarm condition occurs, consult Section 7 of the instruction manual for the IQ Data Plus (TD 17195) or the IQ Data Plus II (TD 17271).

MAINTENANCE

This industrial type control is designed to be installed, operated, and maintained by adequately trained work-

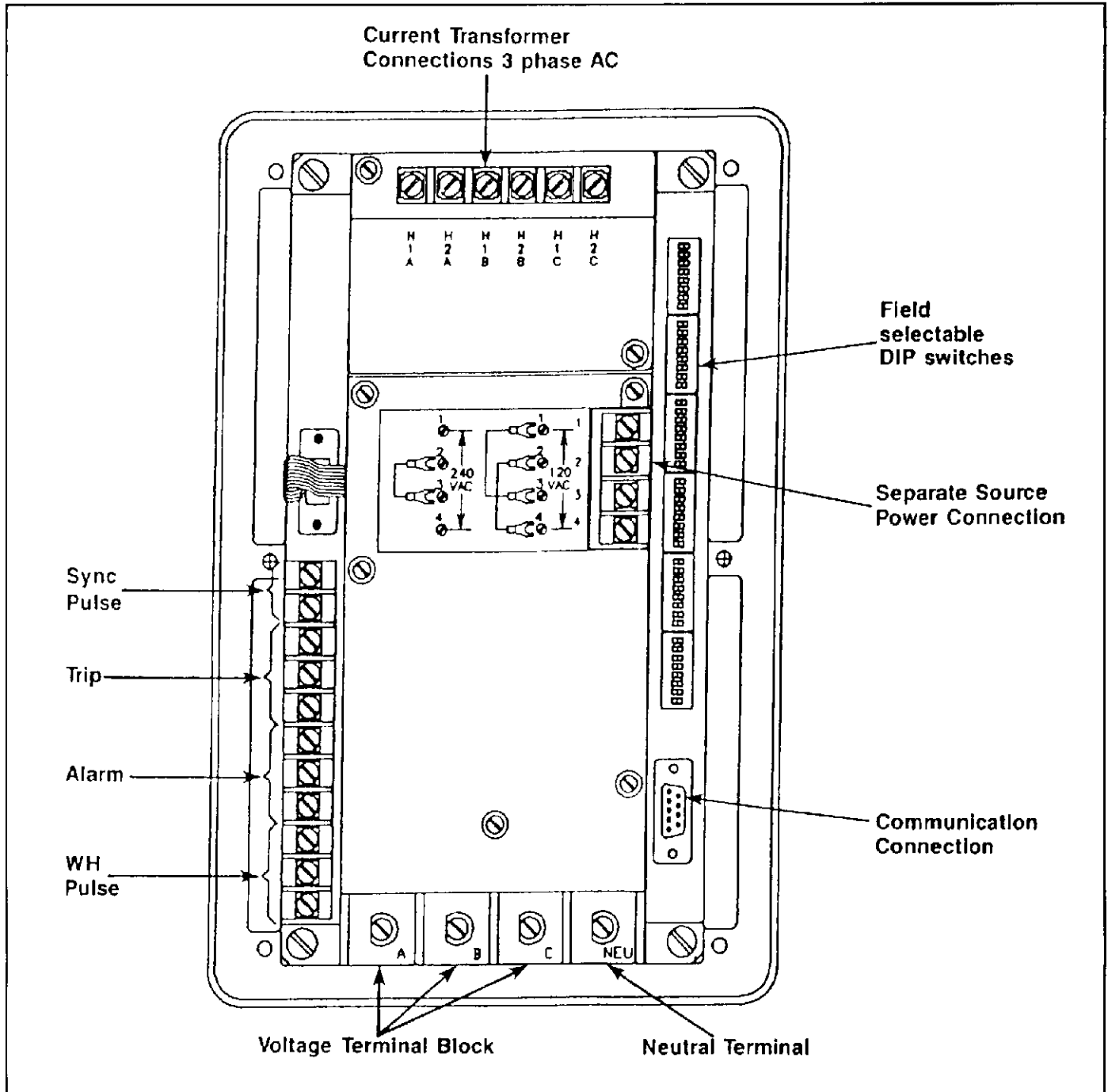


Fig. 3 IQ Data Plus II with Separate Source Power Supply Module

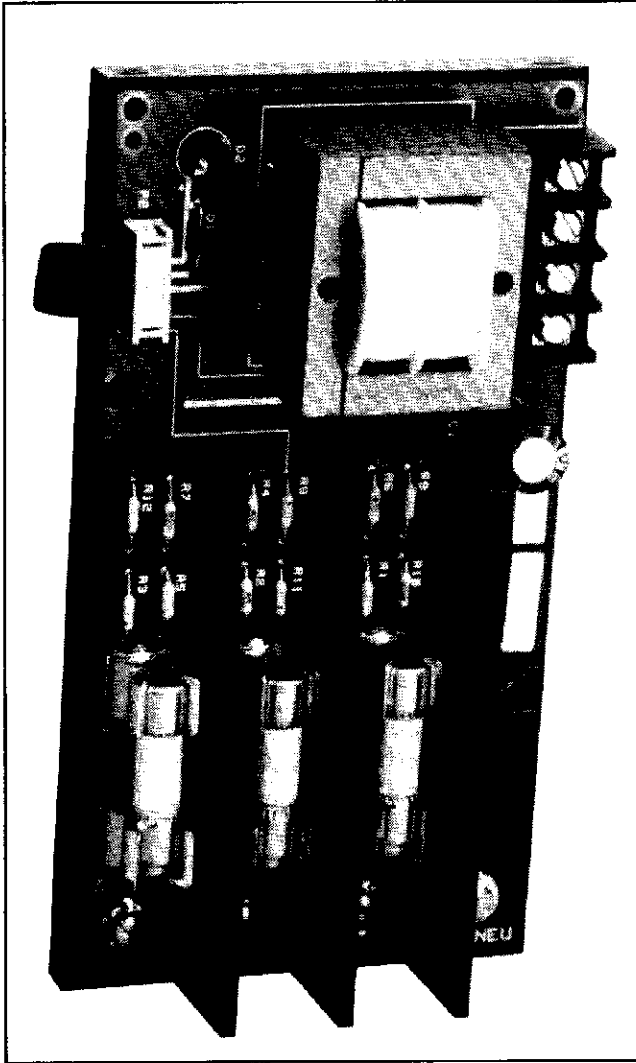


Fig. 4 SSPSM with cover removed

MAINTENANCE (cont.)

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FUSE REPLACEMENT

The Separate Source Power Supply Module is supplied with three fuses (3/4 ampere, 600 volt, Buss Type KTK-R-3/4), as shown in Figure 4. If a fuse must be replaced, first remove all power from the device. Remove the two screws that secure the SSPSM ribbon cable assembly to the 9-pin connector on the IQ Data Plus (II). Remove the two screws that secure the power module to the device.

CAUTION: Be prepared to support the power module once the screws have been removed.

Remove the three screws securing the cover from the back of the SSPSM. Change out any blown fuses and replace the cover using the three screws.