



PLC-3 Power Supply

(Cat. No. 1775-P1)

Purpose of this Document

This document describes new information about the PLC-3 power supply, catalog number 1775-P1. Use this document with the 1775-P1 Power Supply Product Data, publication 1775-2.4.

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Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of these products must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards.

In no event will Allen-Bradley be responsible or liable for indirect or consequential damage resulting from the use or application of these products.

Any illustrations, charts, sample programs, and layout examples shown in this publication are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Allen-Bradley does not assume responsibility or liability (to include intellectual property liability) for actual use based upon the examples shown in this publication.

Allen-Bradley publication SGI-1.1, *Safety Guidelines for the Application, Installation and Maintenance of Solid-State Control* (available from your local Allen-Bradley office), describes some important differences between solid-state equipment and electromechanical devices that should be taken into consideration when applying products such as those described in this publication.

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Throughout this publication, notes may be used to make you aware of safety considerations. The following annotations and their accompanying statements help you to identify a potential hazard, avoid a potential hazard, and recognize the consequences of a potential hazard:

WARNING



Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

ATTENTION



Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss.

IMPORTANT

Identifies information that is critical for successful application and understanding of the product.

Environment and Enclosure

ATTENTION



This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in IEC publication 60664-1), at altitudes up to 2000 meters without derating.

This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR Publication 11. Without appropriate precautions, there may be potential difficulties ensuring electromagnetic compatibility in other environments due to conducted as well as radiated disturbance.

This equipment is supplied as "open type" equipment. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The interior of the enclosure must be accessible only by the use of a tool. Subsequent sections of this publication may contain additional information regarding specific enclosure type ratings that are required to comply with certain product safety certifications.

See NEMA Standards publication 250 and IEC publication 60529, as applicable, for explanations of the degrees of protection provided by different types of enclosure. Also, see the appropriate sections in this publication, as well as the Allen-Bradley publication 1770-4.1 ("Industrial Automation Wiring and Grounding Guidelines"), for additional installation requirements pertaining to this equipment.

Prevent Electrostatic Discharge

ATTENTION

This equipment is sensitive to electrostatic discharge which can cause internal damage and affect normal operation. Follow these guidelines when you handle this equipment:

- touch a grounded object to discharge potential static
 - wear an approved grounding wrist strap
 - do not touch connectors or pins on component boards
 - do not touch circuit components inside the equipment
 - if available, use a static-safe workstation
 - when not in use, store the equipment in appropriate static-safe packaging
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Ground the Power Supply

You must connect Terminal 1 (EQUIPMENT GROUND) directly to a ground bus. For more information, refer to publication 1770-4.1, *Programmable Controller Wiring and Grounding Guidelines*.

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Specifications

General Specifications	
Input voltage rating	120Vac, 50/60Hz, 6A 240Vac, 50/60Hz, 3A
User-supplied overcurrent protection ¹	15A maximum (user-installed)
Output ratings	+5Vdc, 60A supply maximum +5Vdc, 25A per output ±15Vdc, 6A supply maximum ±15Vdc, 3A per output
Wire:	Category 2, copper only
Supply maximum power output	400W
Relay	250Vac, 50/60HZ, 1A General Purpose
Wire:	Category 1, copper only
Terminal block: wire size temperature rating torque	Category 2 ² , copper only 60°C 20 inch-pounds
System common connection	Tightening torque: 35 inch-pounds
Mounting clearance requirements	4" on each side, 6" on top and bottom

¹ Use time-delay type overcurrent protection in all ungrounded conductors.
² Refer to publication 1770-4.1, *Programmable Controller Wiring and Grounding Guidelines*.

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