

**ANSI/ASAE S362.2 JAN1983ED (R2019)**

**Wiring and Equipment for Electrically Driven or Controlled Irrigation Machines**



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Approved April 1988; reaffirmed December 2019 as an American National Standard

# **Wiring and Equipment for Electrically Driven or Controlled Irrigation Machines**

*Developed by a standards subcommittee of the ASAE Agricultural Wiring and Utilization Committee; approved by the Electric Power and Processing Division Standards Committee; adopted by ASAE June 1973; revised April 1978, January 1983; reconfirmed December 1987; approved as an American National Standard April 1988; revised editorially July 1989; reaffirmed by ASAE December 1992; reaffirmed by ANSI July 1993; revised editorially June 1997; reaffirmed by ASAE December 1997, December 1998; reaffirmed by ANSI December 1999; reaffirmed by ASAE December 1999; revised editorially March 2000; reaffirmed by ASAE February 2005; reaffirmed by ANSI March 2005; reaffirmed by ASABE December 2009; reaffirmed by ANSI January 2010; reaffirmed and Editorial revision December 2014; reaffirmed by ANSI January 2015; reaffirmed by ANSI December 2019.*

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## **1 Purpose and Scope**

**1.1** This Standard provides detailed information for the application of electrical apparatus to electrically driven or controlled irrigation machines. The purpose of this Standard is to improve the degree of personal safety in operation and application of products and materials under a reasonable range of conditions.

**1.2** This Standard covers all electrical equipment, apparatus, components, and wiring necessary for electrically driven or controlled irrigation machines, from the point of connection of electric power to the machine.

**1.3** Provisions of this Standard apply to electrical equipment for use on circuits operating at voltages between 30 and 600 V.

## **2 Definitions and Glossary of Terms**

**2.1** For purposes of this Standard the following definitions shall apply:

**2.1.1 irrigation machine:** (Hereinafter called "machine.") An electrically driven or controlled machine, not portable by hand, used primarily to transport and distribute water for agricultural purposes.

**2.1.2 power conductors:** Those conductors that carry current to provide electric power from the machine disconnect to the drive motors.

**2.1.3 control conductors:** Those conductors that carry current to control devices necessary for movement of the machine.

**2.1.4 auxiliary conductors:** Those conductors used to carry current to devices that are not required for the movement of the machine.

**2.1.5 main control panel:** An enclosure containing the main controller and other control devices necessary for starting and stopping the machine.