

**SyncPro™**

# Field Application and Protection System Bulletin 1901

Product Profile



Allen-Bradley Motors



The Bulletin 1901 SyncPro™ is a programmable field application and protection system for squirrel-cage, brush-type synchronous motors.

The SyncPro system is designed to provide supervisory protection and field control to a brush-type synchronous motor controller, proper field application timing, squirrel-cage protection against long acceleration and stall conditions, as well as running pull-out protection by monitoring motor power factor. When combined with a suitable induction motor overload protection relay, the SyncPro provides the necessary protection for the brush-type synchronous motor.

## Features

- Programmable motor parameters and setpoints
- Wide range of settings for greater user flexibility
- Monitors field contactor coil condition
- Stores data from last 10 trips
- Digital user interface with a high visibility two-line back-lit display
- Displays trip and alarm conditions
- Terminal block assembly for simple interwiring
- Modular concept
- Ideal for retrofit applications
- Suitable for low voltage and medium voltage slip ring synchronous motor applications
- Self diagnostics

## Protection/Control

- Squirrel-cage winding protection
- Field winding application control
- Incomplete sequence
- Field voltage failure
- Auto load
- Stall protection
- Pull-out protection (power factor)
- Restart lockout

## Display/Metering

- Detected fault conditions
- Slip frequency and starting time during start-up
- Power factor
- Enter/view setpoints through the DTAM

## Specifications

### Operating Power

Input Line Voltage

- 120 Volts AC 50/60 Hz
- 230 Volts AC 50/60 Hz

Input Power Requirements

- 50 VA

Input Current

- 0-5 Amps

### Temperature and Humidity

Operating Temperature (Max ambient)

- 0 to 40°C (32° to 104°F)

Storage Temperature

- -20 to 65°C (-4 to 149°F)

Humidity

- 5 to 95% (non condensing)
- At 95% humidity, maximum temperature is 35°C

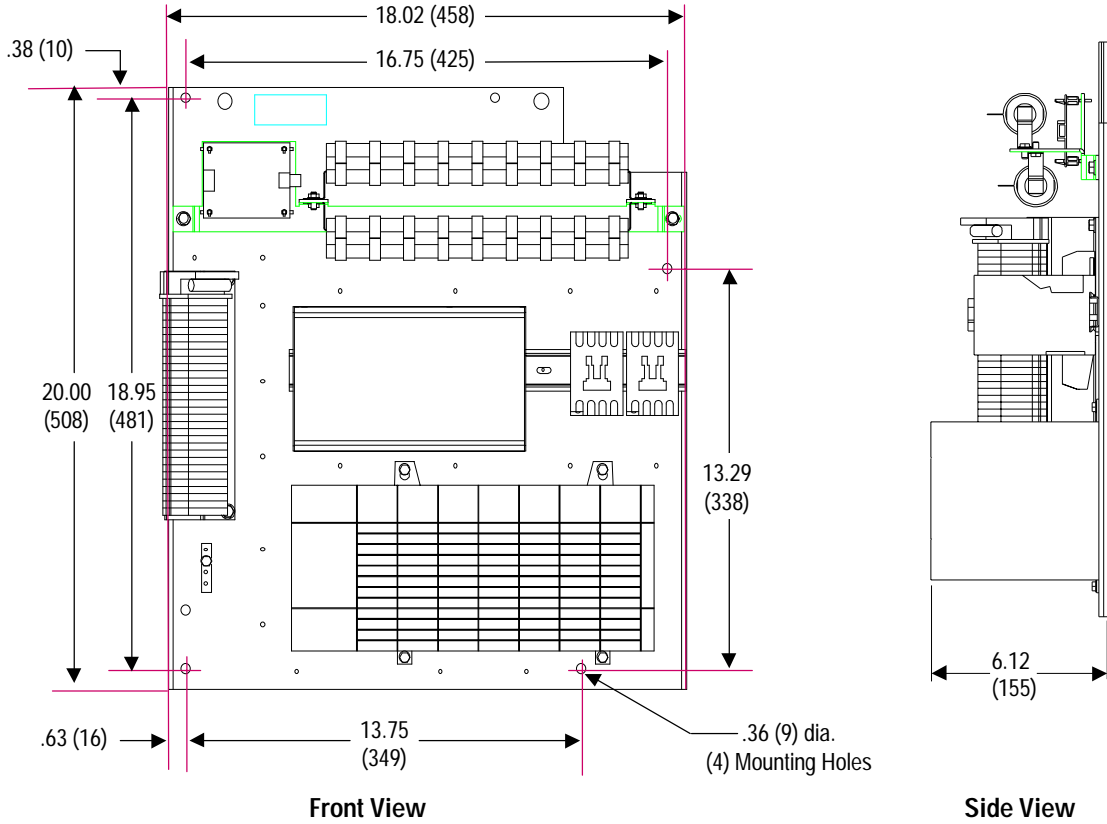
### Approvals

- UL
- CSA

### Configurations

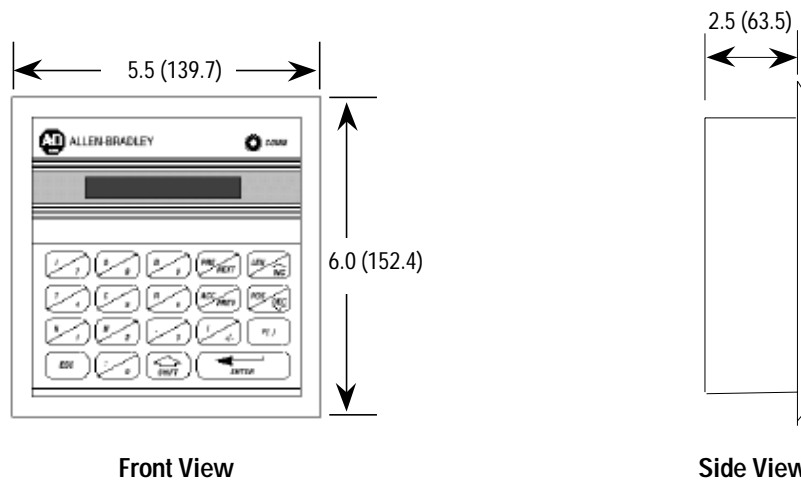
- Open Frame controller
- Modular components
- Integral to synchronous controller
- Integrated with synchronous motor starter package

**Approximate Dimensions  
(1901-AND, Open Type)**



**Note:** Dimensions are in inches (millimeters)

**DTAM Dimensions**



**Note:** A ten-foot cable is provided.

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