

## Submersible Motor Starter Control Panel



## SUBMERSIBLE MOTOR STARTER CONTROL PANEL

2 HP to 75 HP

MODEL CODE

1 PHASE / 3 PHASE

**NB**

**S**

**0205**

**6**

**3**

**B**

### Volts

Code	Volts
B	230V
D	460V

### Phase

Code	Phase
1	1 Phase
3	3 Phase

### Frequency

Code	Hz
5	50
6	60

### Panel rating

Code	HP	Max Allowable Current
0205	2 HP, 3 HP, 5 HP	12 Amp
0710	7.5 HP, 10 HP	20 Amp
1520	15 HP, 20 HP	32 Amp
2540	25 HP, 30 HP, 40 HP	60 Amp
5050	50 HP	85 Amp
6060	60 HP	100 Amp
7575	75 HP	150 Amp

### Panel type

Code	Type
S	Motor starter control panel for submersible deep well pump

### Series name

Code	Series
NB	Control box

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2 HP to 75 HP

GENERAL DATA

1 PHASE / 3 PHASE

### INTRODUCTION

The Northam Motor Starter Control Panel is specifically designed to control and safeguard submersible pumps, ensuring optimal performance and protection against adverse conditions. This factory-assembled, wired, and rigorously tested panel is tailored to meet the specific operational requirements of submersible pump systems.

### TECHNICAL SPECIFICATIONS

- ▶ **Enclosure** : The control panel is housed in a standard NEMA Type 3R enclosure, designed for wall mounting and resistant to drips. Equipped with a bottom entry gland plate and a key lock handle, it ensures secure protection. Optionally, upon customer request, an enclosure with enhanced IP protection can be provided.
- ▶ **Disconnect Switch** : Featuring a door-mounted rotary operating handle type dis-connector switch, this allows for safe and secure disconnection. The switch can be padlocked in the "OFF" position to prevent unauthorized access during installation or maintenance.
- ▶ **Protection** : The control panel incorporates following protections ensuring comprehensive safeguarding against various electrical faults.
  - Definite / Inverse time protection (class 5-30).
  - Overcurrent Protection.
  - Undercurrent Protection.
  - Locked Rotor / Stall Protection.
  - Phase Fail / Phase Unbalance Protection.
  - Reverse Phase Protection.
  - Ground Fault Protection
  - Short Circuit Protection.
- ▶ **Starting Method** : The Direct-On-Line (DOL) starting method, the panel offers both Automatic and Manual modes for convenient operation.
- ▶ **HOA Selector Switch** : Users can seamlessly switch between Manual and Automatic operation modes using the selector switch. Additionally, Automatic or Manual reset functions are provided for enhanced user flexibility.
- ▶ **Display** : A 4-digit 7-segment display allows for convenient parameter setting and viewing, with password protection ensuring security. An optional Front Panel Mount Assembly is available on request.
- ▶ **Fault Logging** : The panel can store up to 5 fault events, facilitating easy management of fault history.
- ▶ **Easy Access Terminals** : Dedicated panel terminals enable easy access to input and output terminals for power and control connections.
- ▶ **Certifications** : The control panel is equipped with UL 489 Approved circuit breaker disconnect for branch and short circuit protection, along with UL 508 Approved contactor, ensuring compliance with safety standards.

Short circuit current rating : 35 kA at 460V AC.

### ENVIRONMENTAL

- ▶ Ambient Operating Temperature : -10 to 55°C (14 to 130°F).
- ▶ Ambient Storage Temperature : -20 to 70°C (-4 to 158°F).
- ▶ Relative Humidity : 95%, Non-condensing.

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**OPTIONAL FEATURES**

**1 PHASE / 3 PHASE**

- ▶ RS485 communication or 4~20 mA Analog Output for enhanced connectivity.
- ▶ Optional Relay for Remote Alarm Contact.
- ▶ Optional Ground Fault Detection using Zero Current Sensing.

This comprehensive range of features ensures reliable performance, ease of operation, and robust protection for submersible pump systems, making the Northam Motor Starter Control Panel an ideal choice for various industrial and commercial applications.

### DIMENSIONS

