

### Control Panels & Accessories

## Specifications:

The Simplex starter control is supplied in a NEMA Type I general purpose indoor enclosure to prevent accidental contact with enclosed equipment.

The enclosure is fabricated of 16 gauge steel. Hinged cover is held closed by flush latches. The standard finish is baked on ANSI 61 Gray Polyester Powder Coating inside and out over Phosphatized surfaces. White steel mounting plates support electrical components in the enclosure.

A two or three pole, ampere rated magnetic contactor will provide pump control. A normally open auxiliary interlock, rated 10 amperes, provides control use with one or two float switches or a single pressure switch. Contactor coil, float switches and other pilot devices operate at line voltage, with the exception of 460 volt controls which are supplied with a 115 volt control transformer.

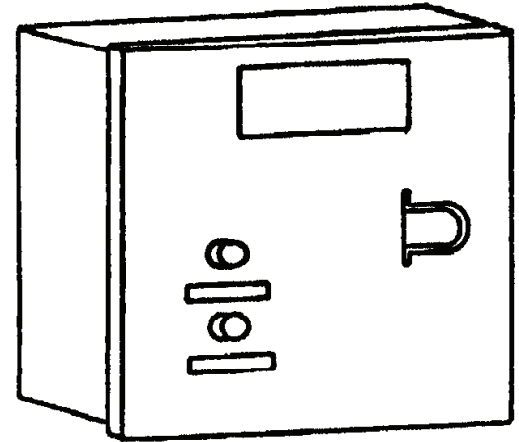
Motor overload protection is provided by one heater for each motor phase, ambient compensated overload with properly sized, quick trip heater(s). The overload relay will provide terminals for pump motor connection.

A terminal block is provided for customer connection of level switches or other pilot controls and/or a remote mounted alarm option.

The pump is controlled by a hand-off-auto toggle switch with spring return from the hand position to prevent pump damage.

An amber run light is mounted through the enclosure side to indicate pump run operation.

Optional Equipment Available, See Page 31.



**Series:** Simplex  
1/4HP - 25HP



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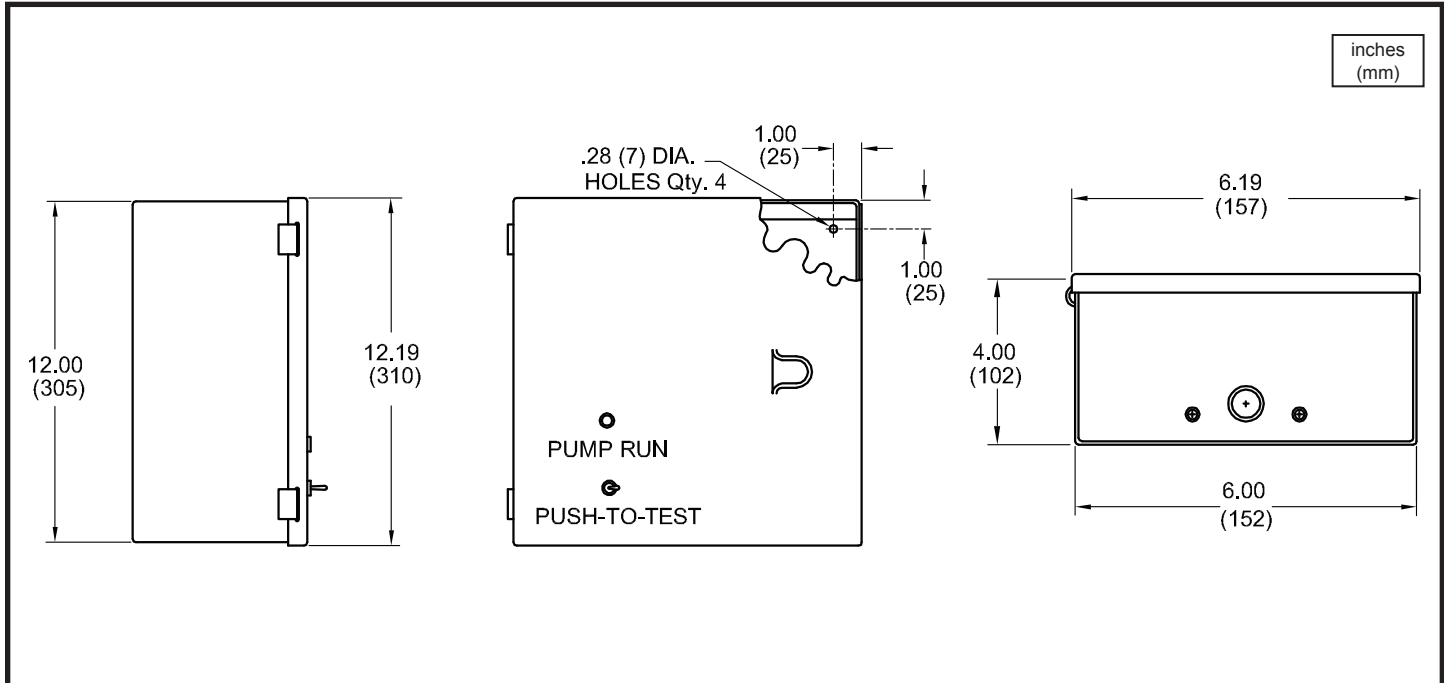
# Starter Controls

Simplex - NEMA 1

# BARNES®

www.cranepumps.com

## Control Panels & Accessories



HP	PH	VOLTS	PART No.
.25 - 2	1	115	075660
.25 - 3	1	230	075661
.5 - 7.5	1	230	075662
.5 - 7.5	3	230	075663
10	3	230	075664
15 - 20	3	230	075665
25	3	230	075666

### IMPORTANT!

1. Specify pump model and/or full load amps when ordering.
2. Optional equipment available.
3. Circuit Breaker **NOT** included.
4. **FOR INDOOR USE ONLY!**
5. Enclosure size is for standard control panel only. The number of options or NEMA type may change the size of the enclosure.

SECTION A  
PAGE 26  
DATE 2/05

**CRANE**  
A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

### Control Panels & Accessories

## Specifications:

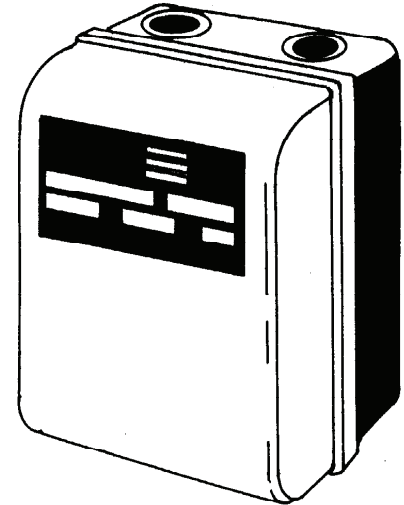
The Simplex pump contactor control is supplied in a NEMA Type I general purpose indoor enclosure to prevent accidental contact with the enclosed equipment.

The enclosure is formed of 16 gauge deep drawn steel with baked on gray epoxy paint. The enclosure will contain a two or three pole, amperage rated magnetic contactor for pump control. A normally open auxiliary interlock switch, rated 10 amperes minimum, provides control use with one or two float switches or a single pressure switch. Contactor coil, float switches and other pilot devices operated at line voltage (with the exception of 460 volt controls).

A terminal block is provided for customer connection of level switches, or other pilot controls, and/or a remote mounted alarm option.

A toggle switch provides hand-off-automatic operation with spring return from the hand to off position to prevent damage to pump. An amber run light is mounted through the enclosure side to indicate pump run operation.

For 230 volt, 1 phase operation, up to 3 HP.



**Series: Simplex**

**P/N: 065557, 115 volt**

**P/N: 065558, 230 volt**

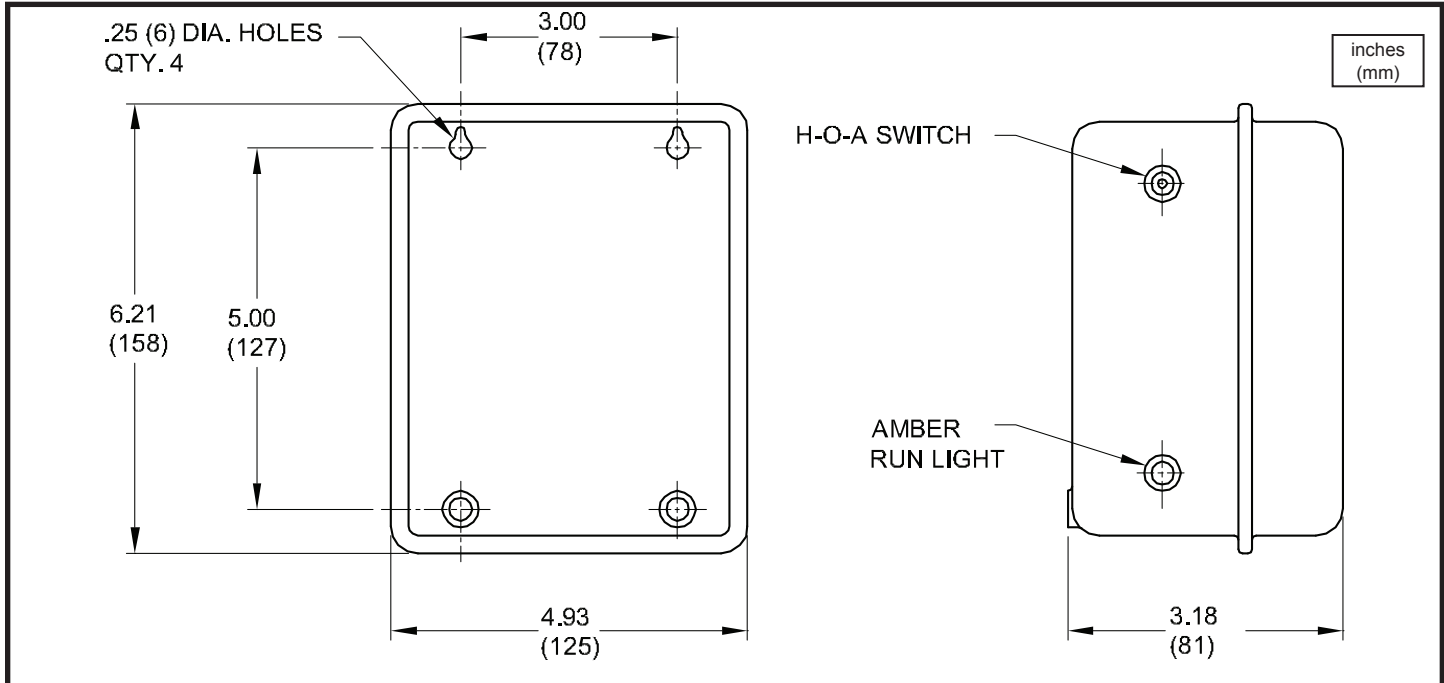
**FOR INDOOR USE ONLY!**



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## Control Panels & Accessories



HP	PH	VOLTS	PART No.
Up to 3	1	115	065557
Up to 3	1	230	065558

### IMPORTANT!

1. Specify pump model and/or full load amps when ordering.
2. Circuit Breaker **NOT** included.
3. **FOR INDOOR USE ONLY!**

### Control Panels & Accessories

## Specifications:

The Simplex Contactors are recommended for systems requiring a permanent split-phase capacitor (PSC) or shaded pole motor driven pumps with internal thermal protection.

Supplied in a NEMA 1, indoor mounting steel enclosure, the control contains a 1/3 to 3 horsepower rated contactor for single phase motor control. The motor contactor is wired to a terminal block to provide control with 2 float switches, or a single pressure switch. Contactor coils, float switches and other pilot devices operate at line voltage.

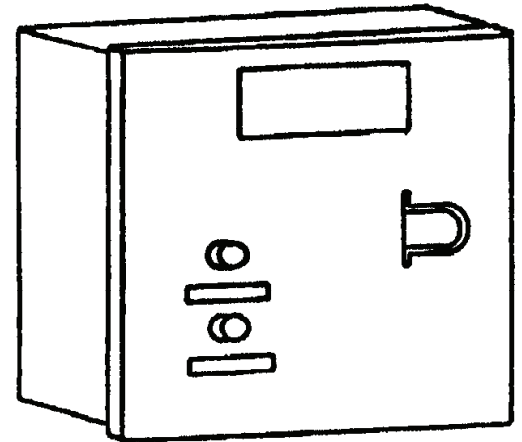
The hinged enclosure door mounts a Push-To-Test button and a Amber light, mounted next to the button to indicate pump operation.

Terminals and terminal blocks are provided for all customer connections, motor leads, float switches and other pilot devices, and incoming line power.

The indoor NEMA 1 enclosure is finished in a gray enamel coating, inside and out, over phosphatized steel.

Knock-outs are provided on the enclosure top and bottom for ease of installation. Mounting is provided through 4 holes through the rear of the enclosure.

Optional Equipment Available, See Page 31



**Series: Simplex - NEMA 1**  
**1/3HP - 3HP, 115 & 230 Volt, 1 Phase**

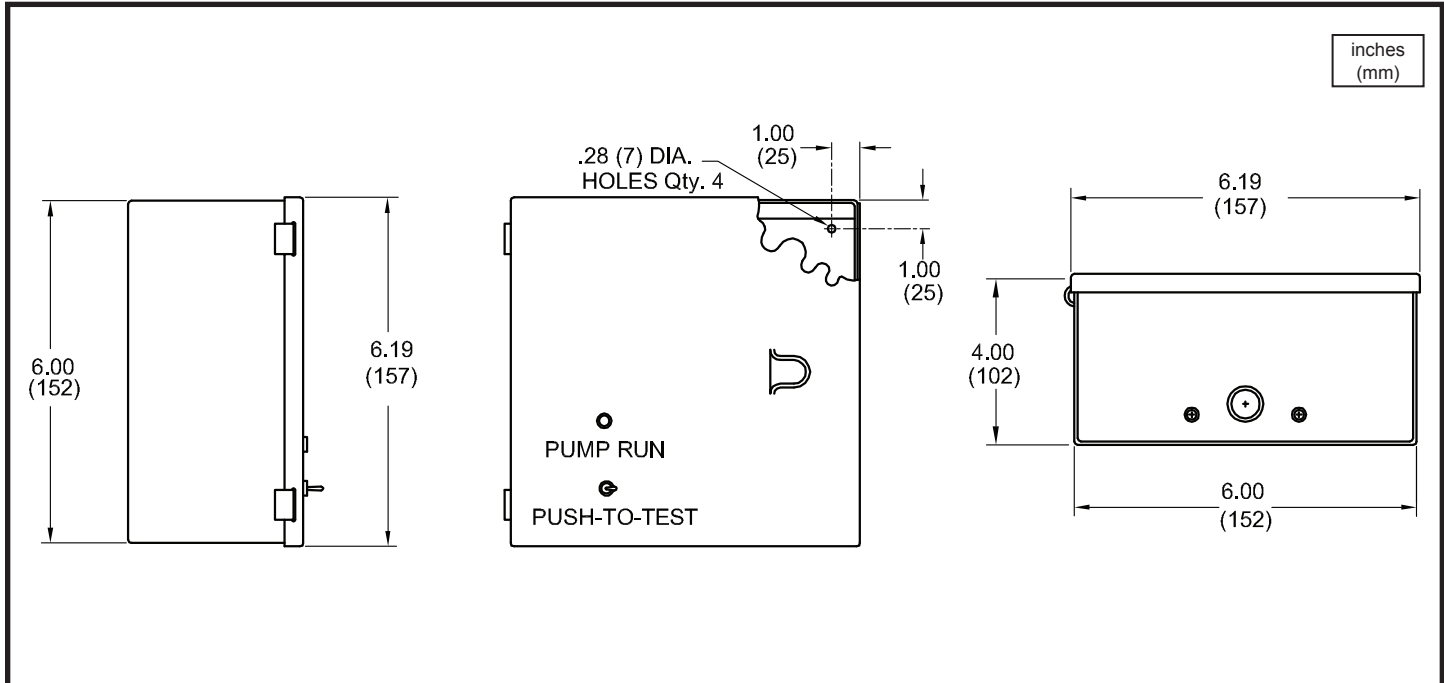
**FOR INDOOR USE ONLY!**



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## Control Panels & Accessories



HP	PH	VOLTS	PART No.
1/3 - 3	1	115	075657
1/3 - 3	1	230	075658

### IMPORTANT!

1. Specify pump model and/or full load amps when ordering.
2. Optional equipment available.
3. Circuit Breaker **NOT** included.
4. **FOR INDOOR USE ONLY!**
5. Enclosure size is for standard control panel only. The number of options or NEMA type may change the size of the enclosure.

### Control Panels & Accessories

#### Alarm Options - NEMA 1

PART No	DESCRIPTION
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082804	Alarm Light & Buzzer, Nema 1, 115 Volt
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085895	Alarm Light & Buzzer, Nema 1, 230 Volt
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082805	Alarm Light & Buzzer with silence Push Button, NEMA 1, 115 Volt
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085961	Alarm Light & Buzzer with silence Push Button, NEMA 1, 230 Volt
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082818	Alarm Light, NEMA 1, 115 Volt
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085897	Alarm Light, NEMA 1, 230 Volt
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085967	Alarm Buzzer, NEMA 1, 115 Volt
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085896	Alarm Buzzer, NEMA 1, 230 Volt
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085962	Alarm Buzzer with Silence Push Button, NEMA 1, 115 Volt
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085963	Alarm Buzzer with Silence Push Button, NEMA 1, 230 Volt
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#### NEMA 3 & 4 Options

082810 NEMA 3R Enclosure 10 x 8 x 4, steel with light gray polyester finish. - Simplex Contactor

082811 NEMA 3R Enclosure 12 x 12 x 6, steel with light gray polyester finish. - Duplex Contactor

082812 NEMA 3R Enclosure 12 x 12 x 6, steel with light gray polyester finish. - Simplex Starter

082813 NEMA 3R Enclosure 16 x 14 x 6, steel with light gray polyester finish. - Duplex Starter

082814 NEMA 4 Enclosure 10 x 8 x 6, steel with light gray polyester finish. - Simplex Contactor

082815 NEMA 4 Enclosure 12 x 12 x 6, steel with light gray polyester finish. - Duplex Contactor

082816 NEMA 4 Enclosure 14 x 12 x 6, steel with light gray polyester finish. - Simplex Starter

082817 NEMA 4 Enclosure 14 x 12 x 6, steel with light gray polyester finish. - Duplex Starter

075630 NEMA 3R or 4 Selector Switch- 3 position, door mounted.

075638 NEMA 3R or 4 Light- Door Mounted



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