

Pressure Switches



Pressure Switch

Product Description

The water pump pressure switch is used to operate a water pump in commercial, residential and agricultural applications. The pressure switch opens or closes electrical contacts in response to pressure changes to maintain the pressure in your water system. This helps to ensure a smooth delivery of water into your house. The pressure switch can be used on all types of pumps.

Features, Functions and Benefits

- ✓ Pressure ratings: 20 – 40 PSI (pounds per-square inch), 30 – 50 PSI, 40 – 60 PSI.
- ✓ Adjustable cut-in and cut-out pressure.
- ✓ Easy installation.

SPECIFICATIONS

UL® listed and CSA® certified.

WARRANTY

Three-year product warranty.



Applications

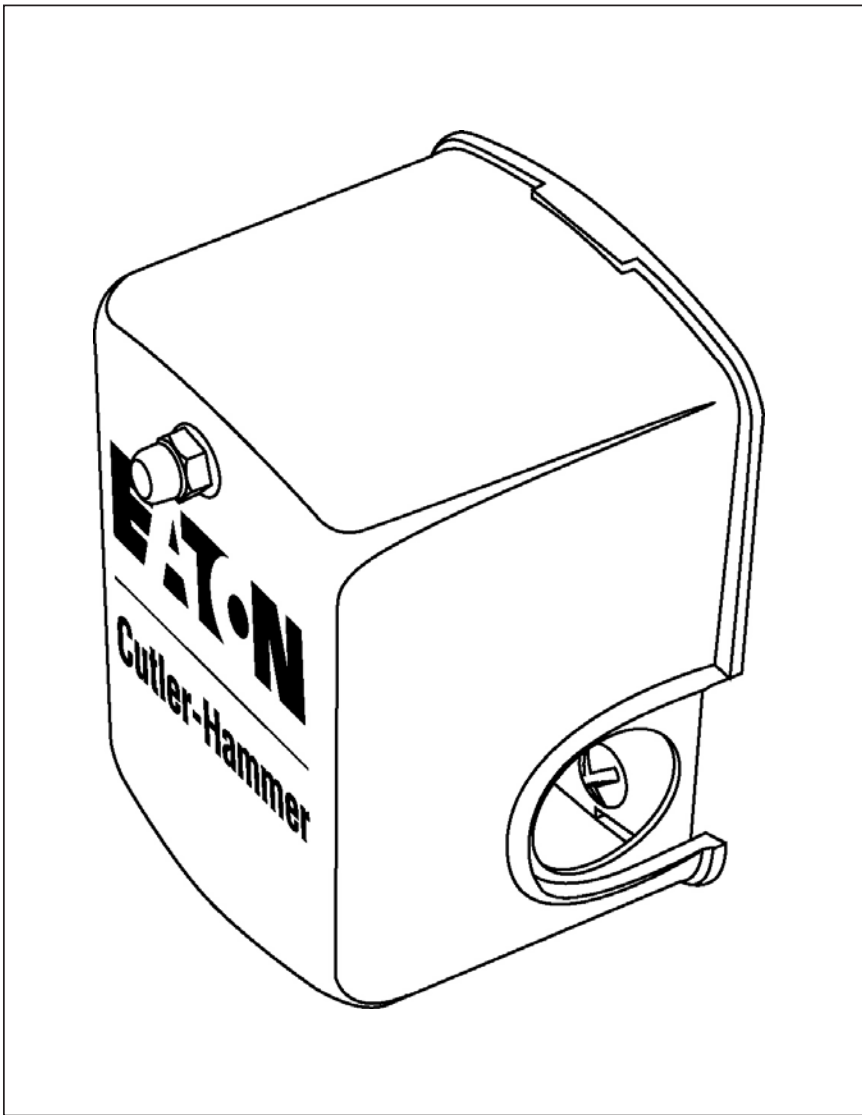


FIGURE 7-1. PRESSURE SWITCH

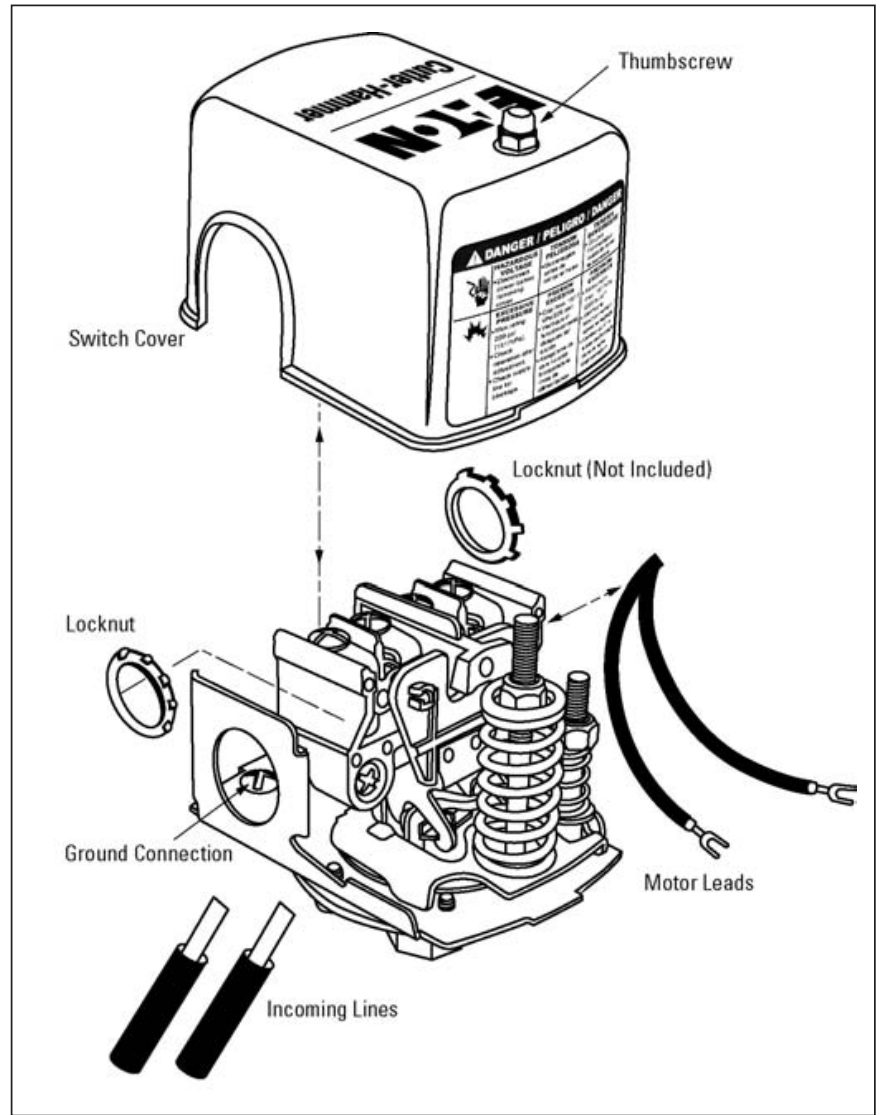


FIGURE 7-2. PRESSURE SWITCH ASSEMBLY

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Pressure Switches

Catalog Numbering System

TABLE 7-1. CATALOG NUMBERING SYSTEM

CH WPS 2040 D P			
Manufacturer	Type	PSI	Accessories
Cutler-Hammer	Water Pressure Switch	2040 = 20 – 40 3050 = 30 – 50 4060 = 40 – 60	Blank = None L= Low Pressure Cut-off ① P= Pulsation Plug ②
Contacts Action			
Diaphragm Actuated			

① Available on 2040, 3050 models.

② Available only on 2040 models.

Data Tables

TABLE 7-2. PRODUCT SELECTION

Description	Enclosure	Catalog Number	UPC Code
20-40 PSI Pressure Switch	NEMA® 1	CHWPS2040D	782116159208
20-40 PSI w/ Pulsation Plug	NEMA 1	CHWPS2040DP	782116183869
20-40 PSI w/ Low Pressure Cut-off	NEMA 1	CHWPS2040DL	782116183852
30-50 PSI Pressure Switch	NEMA 1	CHWPS3050D	782116159215
30-50 PSI w/ Low Pressure Cut-off	NEMA 1	CHWPS3050DL	782116336869
40-60 PSI Pressure Switch	NEMA 1	CHWPS4060D	782116159222

PULSATION PLUG (20 – 40 PSI PRESSURE SWITCH ONLY)

Pulsation plug reduces water surges to the switch that would cause the switch to go on and off rapidly every pulse it received. This prevents your pump from cycling on and off which shortens the pump motor life.

LOW PRESSURE CUT-OFF (20 – 40 & 30 – 50 PSI PRESSURE SWITCHES ONLY)

Low pressure cut-off prevents pump from burning up due to lack of water in the well. Will shut down the switch if the pressure drops to 10 PSI below the turn on pressure.

RATINGS

TABLE 7-3. 2-POLE HORSEPOWER RATINGS

Phase	Vac	Amperes	hp
Single	115	20	1.5
Single	230	12	2.0

Cross-Reference

TABLE 7-4. PRESSURE SWITCH CROSS-REFERENCE

Description	Cutler-Hammer Catalog Number	UPC Code	Square D®	Flotec®	Water Ace®	Furnas®
20/40 Standard Pressure Switch	CHWPS2040D	782116159208	9013FSG2J20	—	15767A510	69WA4Z2040
30/50 Standard Pressure Switch	CHWPS3050D	782116159215	9013FSG2J21	TC2151	15760A501	69WA4
40/60 Standard Pressure Switch	CHWPS4060D	782116159222	9013FSG2J24	TC2153	—	69WA4Z4060
20/40 Pressure Switch w/ Pulsation Plug	CHWPS2040DP	782116183869	9013FSG2J20P	—	—	69WA4Z2040B
20/40 Pressure Switch w/ Low Pressure Cut-off	CHWPS2040DL	782116183852	9013FSG2J20M4	—	—	69WEC
30/50 Pressure Switch w/ Low Pressure Cut-off	CHWPS2050DL	782116336869	9013FSG2J21M4	FP217-1140	19180A501	—

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