



**UNITED  
TECHNOLOGIES  
CARRIER**

Commercial Division  
Carrier Corporation

BULLETIN: CA-SB-19-E-72-61  
DATE: 1/28/72  
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## SERVICE BULLETIN

SUBJECT:

**19EA OIL PUMP CAPACITY INCREASE**

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### PURPOSE

To advise of a capacity increase in the oil pump supplied on 19EA4 machines.

### MACHINES AFFECTED

All 19EA4s shipped after approximately May 1972.

### PROCEDURE

The 1 hp, 19EA5 oil pump will be installed on the above 19EA4 machines in place of the 1/2 hp pump to increase the pumping capacity of the 19EA4 lubrication system. This conversion should be made in the field only if problems are experienced with the existing pump.

Mechanically, the one horsepower pump and motor package (Fig. 1) is directly interchangeable with the existing 1/2 hp assembly. There are differences in the motor and pump housing, but these do not affect the interchangeability of the complete package.

**CAUTION:** Use extra care when connecting the motor leads to the terminals to insure that the motor leads cannot touch the rotor.

PSD will no longer stock the obsolete 1/2 hp pump. They will ship 1 hp pumps wired for 440 or 550 v. The 440 V motor can be reconnected easily for 220V as shown in Fig. 2.

**NOTE:** The heaters in the pump starter overloads will have to be changed because the larger pump and motor will draw higher amps. Table 1 lists the full load amps for both motors.



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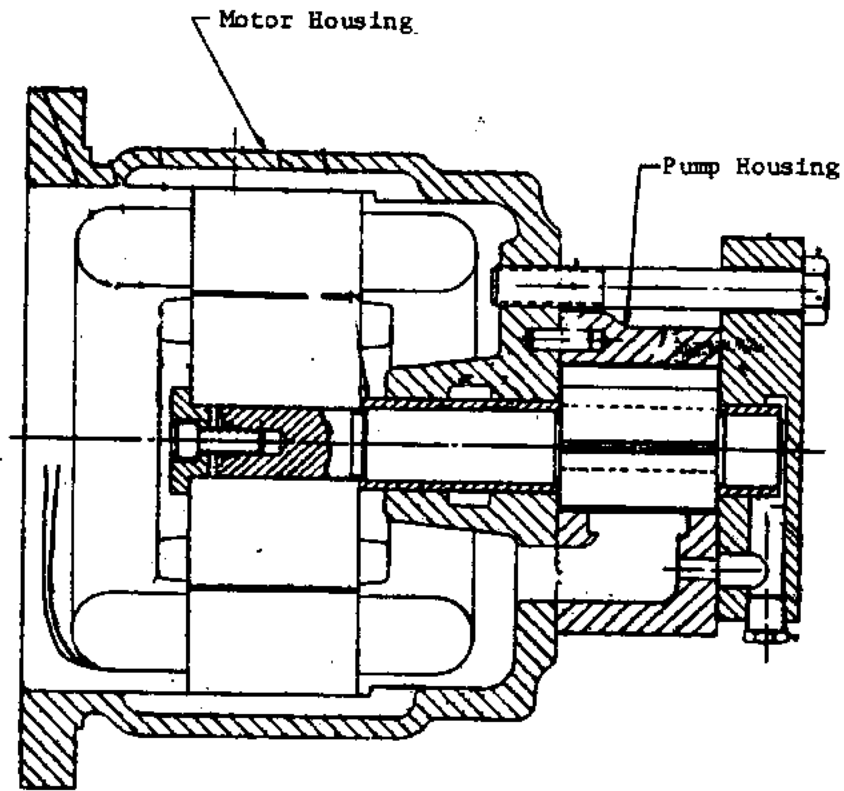


Fig. 1. Oil Pump and Motor Assembly



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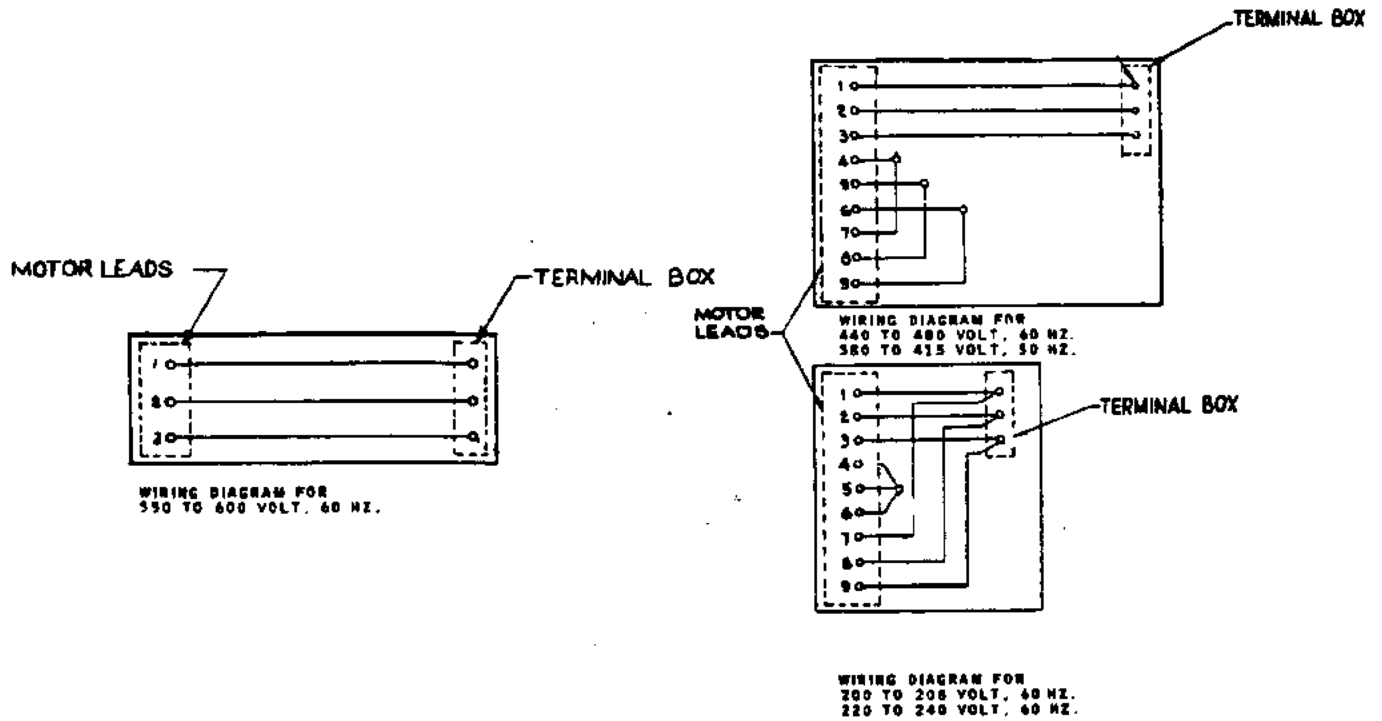


Fig. 2. Motor Connection Diagrams

Table 1. Motor Full Load Amps							
19EA5, 1 hp				19EA4, 1/2 hp			
Voltage	Phase	Hz	FLA	Voltage	Phase	Hz	FLA
200-208	3	60	3.24-3.29	200-208	3	60	2.01-1.91
220-240	3	60	3.34-3.26	220-240	3	60	1.92-1.76
440-480	3	60	1.79-1.64	440-480	3	60	1.00-1.01
550-600	3	60	1.44-1.33	550	3	60	0.91
380-415	3	50	1.80-1.98	600	3	60	0.76
				380-415	3	50	1.20-1.25