

***FAX SHEET***

***City of Driggs – Public Works Dept.***

***FAX (208) 354 - 3106***

***P.O. Box 48 Driggs, ID 83422***

***email pwdriggs@pdt.net***

|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| <b><i>Date: 2/23/2009</i></b>                   | <b><i>Pages including this one (10 )</i></b> |
| <b><i>To: Michele Edl<br/>Company: IDWR</i></b> | <b><i>FAX #<br/>1-208-287-6700</i></b>       |
| <b><i>RE:<br/>High School well</i></b>          | <b><i>From:<br/>Jared D Gunderson</i></b>    |

***This is the old pump info we talked about.***

**SUBMITTAL**

Prepared For

**R&S CONSTRUCTION**

**DRIGGS HIGH SCHOOL**

**75 HP Deepwell Pump**

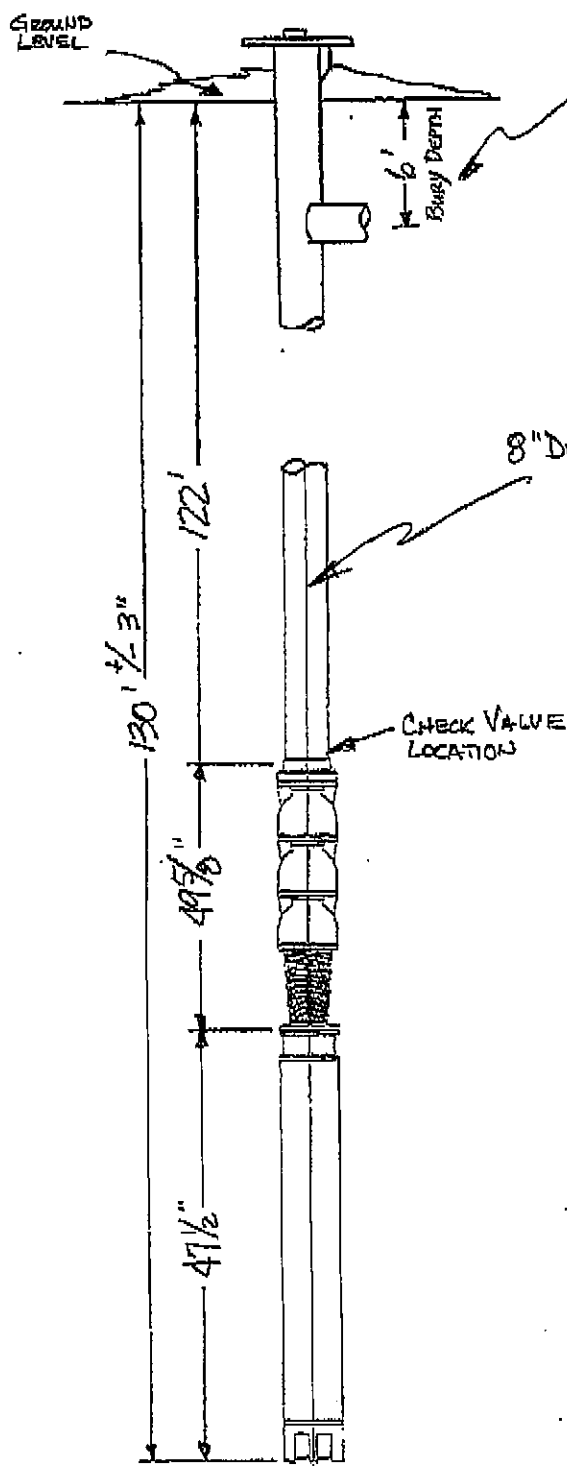
March 25, 1998

## ***PumpTech Company, Inc.***

P.O. Box 51259, Idaho Falls, ID 83405 Phone (208) 529-6868 / Fax (208) 529-4332  
Boise Office: P.O. Box 5463 Boise, ID 83705 Phone (208) 384-1321 / Fax (208) 389-9432

**"YOUR TOTAL PUMP SUPPLIER"**

## SUBMERSIBLE PUMP W/ PITLESS ADAPTER



Bury Depth Subject To Final  
Elevation Verification

DATE MARCH 26, 1998  
CUSTOMER R&S Construction  
JOB NAME Driggs High School

## MOTOR

H.P. 75 MFG. Franklin  
R.P.M. 3500 SIZE 8"  
PHASE/CYCLE/VOLTS 3ph/60cy/460v

## DISCHARGE ELBOW

SIZE 8"  
MATERIAL STEEL

## COLUMN ASSEMBLY

PIPE SIZE/LENGTH 8" - 122'  
PIPE WALL 8" .277"

## CABLE

SIZE 1-0 - Copper  
MATERIAL 3wire Flat w/gnd.  
LENGTH 120'

## BOWL ASSEMBLY

MODEL 8H-1000 - Crown  
NO. OF STAGES 3  
G.P.M. 825 T.D.H. 285  
MATERIAL:  
BOWL Cast Iron IMPELLER BRONZE  
SHAFT 416ss BEARING RUBBER  
COLLET 416ss BOLTS 3.5. 300 Series  
BOWL W.R. MATERIAL N/A  
IMPELLER W.R. MATERIAL N/A

## MOTOR ADAPTER

TYPE STD. Cast Iron  
SIZE 8"

## SHROUD

MATERIAL NONE  
SIZE NONE

COMMENTS: 1- Check Valve will be supplied. It will be  
located directly above the Bowl Assembly.

Driggs High School

MAAGS

**MIDWEST**

MANUFACTURERS OF QUALITY WATER WELL ACCESSORIES

**ACKNOWLEDGMENT**

We are pleased to acknowledge receipt of your order. To avoid any errors with your order, please review the following. Upon receipt of a signed copy of this page we will begin processing your order as indicated below.

Model No.: MB, HD, S-12,14,8,P-6, NPT-WT

Sold To: PUMP TECH CO., INC  
4444 SO. YELLOWSTONE HWY.  
IDAHO FALLS, ID.

SHIP TO: SameDate: 10-23-97Attention: DOUGQuote #: NONEOrder #: P.O.# 6638Fax 208-529-4332Phone: 208-529-6868

Reference: \_\_\_\_\_

Project: Driggs High School

Additional Options (Not Reflected in Drawing)

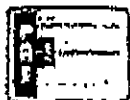
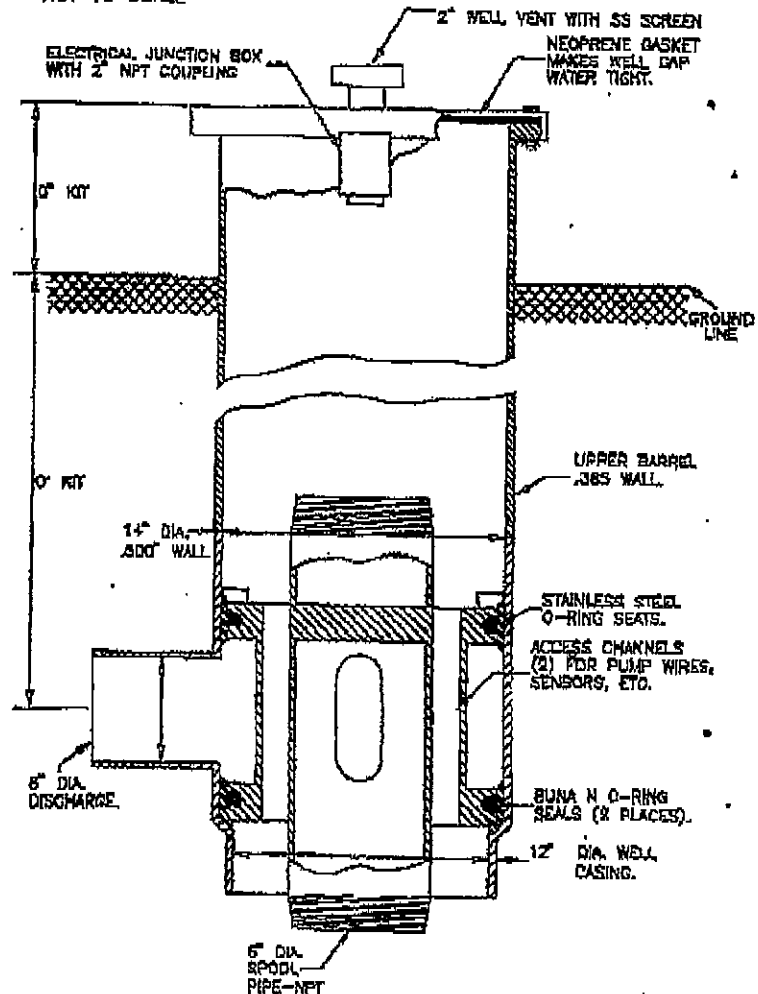
QUANTITY OF : UNIT.

Factory: \_\_\_\_\_

Estimated Delivery (A.R.O.): \_\_\_\_\_

Terms of Order: 2%/10/net 30Accepted by: Douglas Miller

\*NOT TO SCALE



P.O. Box 547, 11243 Dundee Road, Huntley, IL 60143-0547 (800) 323-6253 IL AREA (847) 689-5135 FAX (847) 663-3220

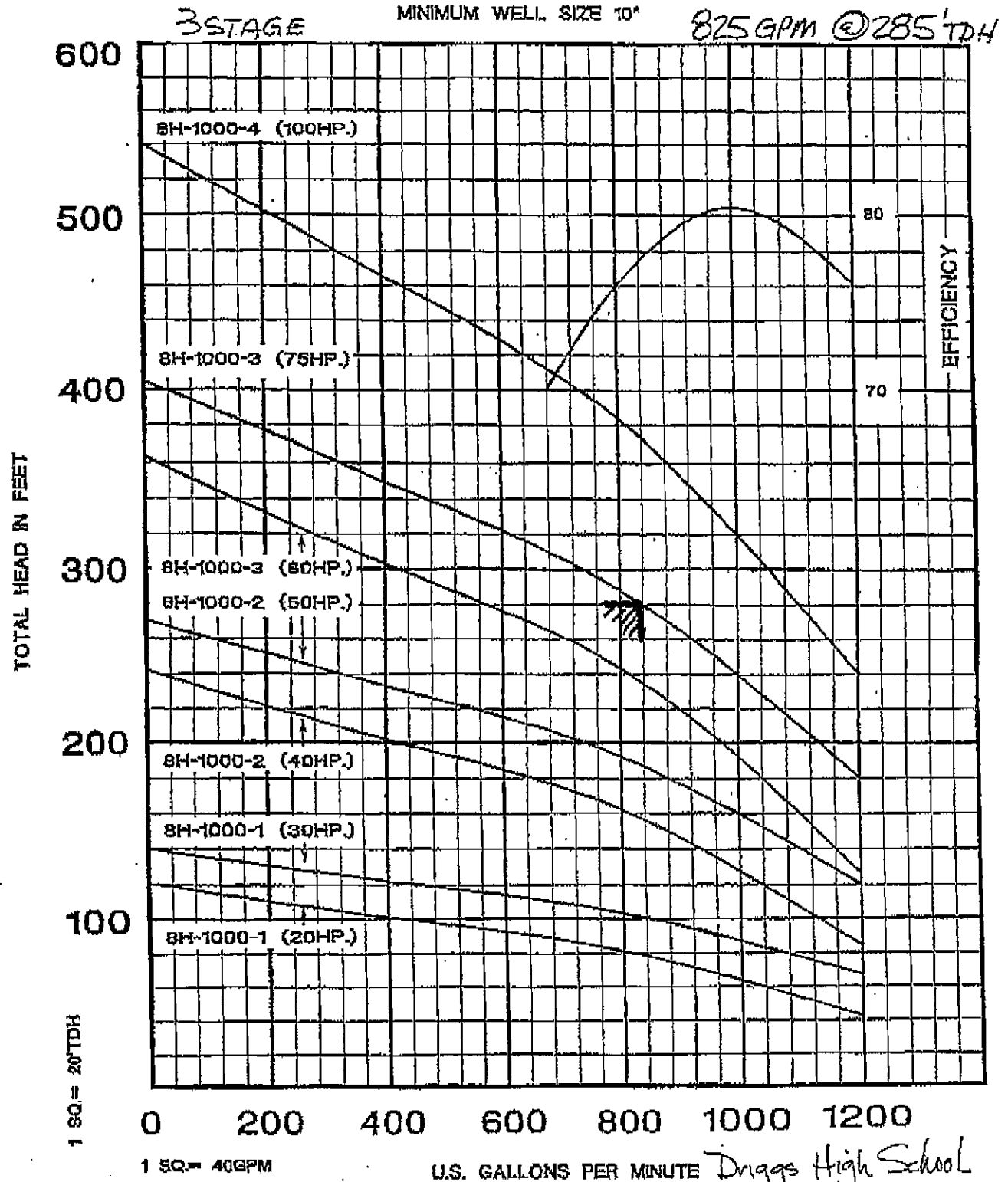




# 8H-1000

## MODEL 8H-1000

### PERFORMANCE CHARACTERISTICS



CROWN PUMP CORPORATION, HIGHWAY 18 & BIVAR, DE LEON, TEXAS

# MODEL 8H-1000

## GENERAL DATA

RPM: 3500 NOMINAL, 60HZ  
 MAX. O.D. W/CABLE GUARD 8 3/4"  
 MINIMUM WELL SIZE 10"  
 DISCHARGE SIZE: 6" STANDARD

BOWLS : CAST IRON  
 IMPELLERS : BRONZE  
 SHAFT : STAINLESS STEEL

## IMPELLER DATA

IMPELLER NO.: 882  
 TYPE : ENCLOSED  
 EFFECTIVE EYE AREA : 19.8 SQ.IN  
 TRIM DIAMETER  
 A - 6.500"  
 B - 6.300"  
 C - 6.100"  
 D - 6.000"  
 E - 5.800"

THRUST CONSTANT K: 8  
 NO. OF VANES : 8  
 IMPELLER SKIRT CLEARANCE : .015"  
 EFFICIENCY CORRECTION  
 1 STAGE - 6%  
 2 STAGE - 4%  
 3 STAGE - 2%  
 4 STAGE - 0

## BOWL DATA

BOWL NO. : 881  
 DIAMETER : 8.18"  
 CONNECTION : FLANGED

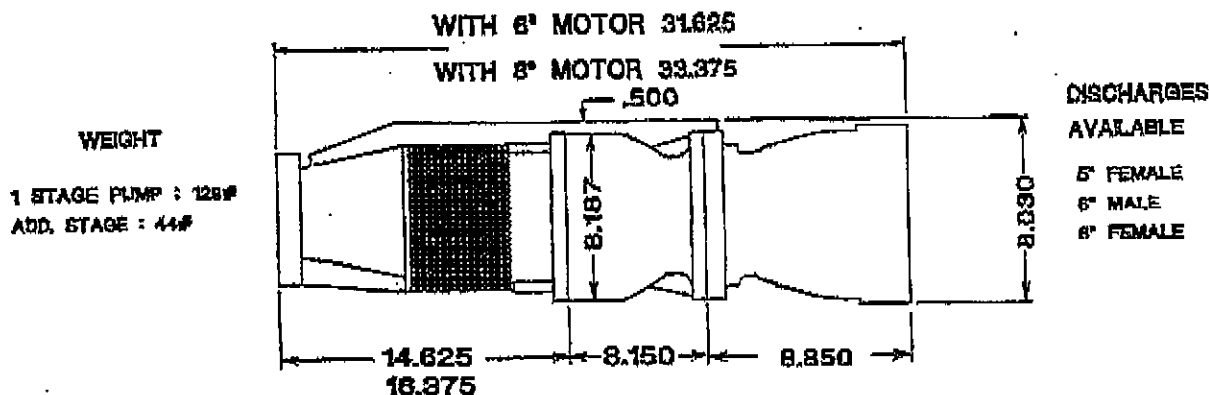
SHAFT BEARING CLEARANCE : .010"  
 BEARING MATERIAL: CUTLESS RUBBER  
 PUMP SHAFT DIAMETER : 1"

## SPECIAL MATERIALS AVAILABLE - CONTACT FACTORY

NOTE: EFFICIENCY PERFORMANCE BASED ON CAST IRON BOWLS - POLISHED  
 BRONZE IMPELLERS AND 6 FEET SUBMERGENCE.

THIS CHARACTERISTIC CURVE IS BASED ON FACTORY TESTS WHEN PUMPING  
 CLEAR, NONAERATED WATER AT A TEMPERATURE NOT EXCEEDING 85 F.  
 AND UNDER SUCTION CONDITIONS AS INDICATED. SPECIFICATIONS SUBJECT  
 TO CHANGE WITHOUT NOTICE.

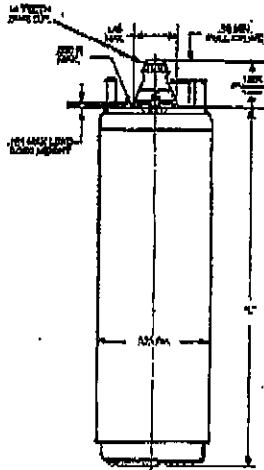
PUMP PERFORMANCE RATING IS FOR THE DESIGNATED POINT ONLY AND IS  
 SUBJECT TO TEST TOLERANCES AND PROCEDURES AS SPECIFIED IN THE  
 STANDARD OF THE HYDRAULIC INSTITUTE



**CROWN**

CROWN PUMP CORPORATION, HIGHWAY 16 & BIVAR, DE LEON, TEXAS

## Application — All Motors

**4" Super Stainless****Dimensions****Availability**

2-Wire, Split Phase, 60 Hz, 3450 RPM

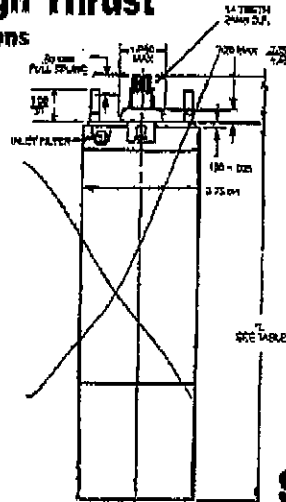
| hp    | kw  | volts | "L" Dimension<br>in | Shipping Weight<br>lbs |
|-------|-----|-------|---------------------|------------------------|
| 1/3   | .25 | 115   | 8.78                | 16                     |
| 1/3   | .25 | 230   | 8.78                | 16                     |
| 1/2   | .37 | 115   | 9.53                | 18                     |
| 1/2   | .37 | 230   | 9.53                | 18                     |
| 3/4   | .55 | 230   | 10.66               | 21                     |
| 1     | .75 | 230   | 11.75               | 24                     |
| 1 1/2 | 1.1 | 230   | 15.12               | 32                     |

3-Wire, Capacitor Start, 60 Hz, 3450 RPM

| hp    | kw  | volts | "L" Dimension<br>in | Shipping Weight<br>lbs |
|-------|-----|-------|---------------------|------------------------|
| 1/3   | .25 | 115   | 8.78                | 16                     |
| 1/3   | .25 | 230   | 8.78                | 16                     |
| 1/2   | .37 | 115   | 9.53                | 18                     |
| 1/2   | .37 | 230   | 9.53                | 18                     |
| 3/4   | .55 | 230   | 10.66               | 21                     |
| 1     | .75 | 230   | 11.75               | 24                     |
| 1 1/2 | 1.1 | 230   | 13.62               | 29                     |
| 2     | 1.5 | 230   | 15.12               | 32                     |

**Three Phase**

|       |     |     |       |    |
|-------|-----|-----|-------|----|
| 1/2   | .37 | ALL | 9.53  | 18 |
| 3/4   | .55 | ALL | 10.66 | 21 |
| 1     | .75 | ALL | 11.75 | 24 |
| 1 1/2 | 1.1 | ALL | 11.75 | 24 |
| 2     | 1.5 | ALL | 13.62 | 29 |

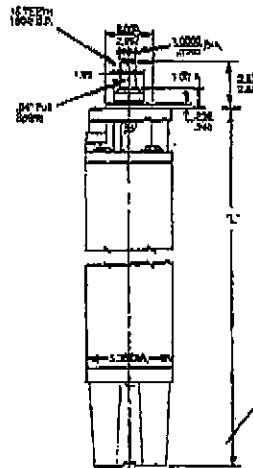
**4" High Thrust****Dimensions****Availability**

Single Phase Capacitor start, capacitor run

| hp | kw  | "L" Dimension<br>in | Shipping Weight<br>lbs |
|----|-----|---------------------|------------------------|
| 3  | 2.2 | 23.62               | 52                     |
| 5  | 3.7 | 29.62               | 69                     |

**Three Phase**

|       |     |       |     |
|-------|-----|-------|-----|
| 3     | 2.2 | 20.62 | 43  |
| 5     | 3.7 | 23.62 | 53  |
| 7 1/2 | 5.5 | 29.62 | 68  |
| 10    | 7.5 | 43.89 | 130 |

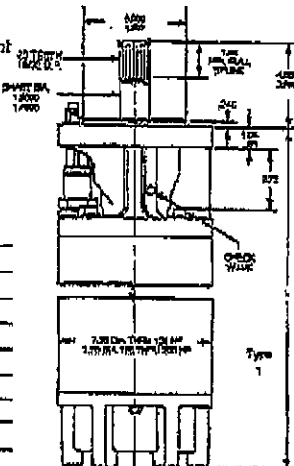
**Super - 6"****Dimensions****Availability**

Single Phase Capacitor start, capacitor run

| hp    | kw  | "L" Dimension<br>in | Shipping Weight<br>lbs |
|-------|-----|---------------------|------------------------|
| 5     | 3.7 | 25.44               | 105                    |
| 7 1/2 | 5.5 | 28.00               | 120                    |
| 10    | 7.5 | 30.56               | 135                    |
| 15    | 11  | 33.13               | 146                    |

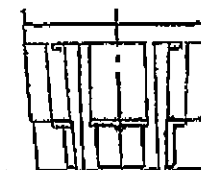
**Three Phase**

|       |     |       |     |
|-------|-----|-------|-----|
| 5     | 3.7 | 22.88 | 90  |
| 7 1/2 | 5.5 | 24.19 | 95  |
| 10    | 7.5 | 25.44 | 105 |
| 15    | 11  | 28.00 | 120 |
| 20    | 15  | 30.56 | 135 |
| 25    | 18  | 33.13 | 148 |
| 30    | 22  | 35.89 | 162 |
| 40    | 30  | 40.61 | 195 |
| 50    | 37  | 57.83 | 310 |
| 60    | 45  | 63.83 | 340 |

**Super - 8"****Dimensions****Availability**

8-Inch Pump Flange (5-inch rabbet)

| hp  | kw  | "L" Dimension<br>in | Shipping Weight<br>lbs | Type |
|-----|-----|---------------------|------------------------|------|
| 40  | 30  | 35.78               | 310                    | 2    |
| 50  | 37  | 38.79               | 340                    | 2    |
| 60  | 45  | 41.79               | 375                    | 2    |
| 75  | 55  | 47.41               | 450                    | 2.1  |
| 100 | 75  | 54.91               | 520                    | 2.1  |
| 125 | 90  | 68.78               | 719                    | 1    |
| 150 | 110 | 77.78               | 815                    | 1    |
| 175 | 130 | 85.78               | 919                    | 1    |
| 200 | 150 | 94.78               | 1,031                  | 1    |

Type 2  
And  
Type 2.1

# Application Three Phase Motors

15

**Table 13 Three Phase Motor Specifications (60 Hertz)**

| Motor Model            | HP  | Volts | HZ | P.F. | Rated Input |        | Max. Input (S.F. Cont) |        | Time to Load | Efficiency % |      |      | Power Factor % |      |      | Locked Rotor Amps | Code | Start Delay |
|------------------------|-----|-------|----|------|-------------|--------|------------------------|--------|--------------|--------------|------|------|----------------|------|------|-------------------|------|-------------|
|                        |     |       |    |      | Amps        | Watts  | Amps                   | Watts  |              | S.F.         | F.L. | HT   | F.L.           | HT   |      |                   |      |             |
| 6 Inch Cont - 3450 RPM |     |       |    |      |             |        |                        |        |              |              |      |      |                |      |      |                   |      |             |
| 238653                 | 15  | 200   | 60 | 1.15 | 57.8        | 13700  | 54.5                   | 15800  | 22-27        | 81.0         | 81.5 | 80.2 | 84.9           | 82.8 | 76.5 | 306               | H    | 150 60      |
| 238603                 | 15  | 230   | 60 | 1.15 | 41.8        | 13700  | 47.4                   | 15800  | 27-33        | 81.0         | 81.5 | 80.2 | 84.9           | 82.8 | 76.5 | 266               | H    | 125 60      |
| 238613                 | 15  | 460   | 60 | 1.15 | 20.8        | 13700  | 23.7                   | 15800  | 1.07-1.32    | 81.0         | 81.5 | 80.2 | 84.9           | 82.8 | 76.5 | 133               | H    | 60 30       |
| 238623                 | 15  | 575   | 60 | 1.15 | 16.7        | 13700  | 19                     | 15800  | 1.70-2.10    | 81.0         | 81.5 | 80.2 | 84.9           | 82.8 | 76.5 | 106               | H    | 50 25       |
| 238654                 | 20  | 200   | 60 | 1.15 | 61.9        | 18100  | 68.7                   | 20900  | 14-17        | 82.0         | 82.3 | 81.6 | 86.8           | 84.8 | 79.5 | 416               | J    | 200 80      |
| 238604                 | 20  | 230   | 60 | 1.15 | 53.8        | 18100  | 60.8                   | 20900  | 20-25        | 82.0         | 82.3 | 81.6 | 86.8           | 84.8 | 79.5 | 362               | J    | 175 70      |
| 238614                 | 20  | 460   | 60 | 1.15 | 26.9        | 18100  | 30.3                   | 20900  | 76-94        | 82.0         | 82.3 | 81.6 | 86.8           | 84.8 | 79.5 | 181               | J    | 80 35       |
| 238624                 | 20  | 575   | 60 | 1.15 | 21.5        | 18100  | 24.4                   | 20900  | 1.22-1.52    | 82.0         | 82.3 | 81.6 | 86.8           | 84.8 | 79.5 | 145               | J    | 70 30       |
| 238655                 | 25  | 200   | 60 | 1.15 | 77.1        | 22500  | 88.3                   | 25700  | 11-14        | 82.8         | 83.0 | 82.0 | 87.0           | 85.0 | 79.2 | 552               | J    | 225 100     |
| 238605                 | 25  | 230   | 60 | 1.15 | 67          | 22500  | 75                     | 25700  | 15-19        | 82.8         | 83.0 | 82.0 | 87.0           | 85.0 | 79.2 | 480               | J    | 200 90      |
| 238615                 | 25  | 460   | 60 | 1.15 | 33.5        | 22500  | 37.5                   | 25700  | 59-78        | 82.8         | 83.0 | 82.0 | 87.0           | 85.0 | 79.2 | 240               | J    | 100 45      |
| 238625                 | 25  | 575   | 60 | 1.15 | 26.8        | 22500  | 30                     | 25700  | 1.01-1.25    | 82.8         | 83.0 | 82.0 | 87.0           | 85.0 | 79.2 | 192               | J    | 80 35       |
| 238656                 | 30  | 200   | 60 | 1.15 | 90.9        | 26900  | 104                    | 31100  | 10-12        | 82.5         | 83.0 | 82.6 | 87.5           | 85.4 | 80.3 | 658               | J    | 300 125     |
| 238606                 | 30  | 230   | 60 | 1.15 | 79          | 26900  | 90.4                   | 31100  | 12-15        | 82.5         | 83.0 | 82.6 | 87.5           | 85.4 | 80.3 | 568               | J    | 250 110     |
| 238616                 | 30  | 460   | 60 | 1.15 | 39.5        | 26900  | 45.2                   | 31100  | 48-60        | 82.5         | 83.0 | 82.6 | 87.5           | 85.4 | 80.3 | 284               | J    | 125 50      |
| 238626                 | 30  | 575   | 60 | 1.15 | 31.8        | 26900  | 36.2                   | 31100  | 78-95        | 82.5         | 83.0 | 82.6 | 87.5           | 85.4 | 80.3 | 227               | J    | 100 40      |
| 238617                 | 40  | 460   | 60 | 1.15 | 53.5        | 35800  | 62                     | 42400  | 32-40        | 83.2         | 83.4 | 82.9 | 85.8           | 83.8 | 77.8 | 397               | J    | 150 70      |
| 238627                 | 40  | 575   | 60 | 1.15 | 42.8        | 35800  | 49.8                   | 42400  | 53-59        | 83.2         | 83.4 | 82.9 | 85.8           | 83.8 | 77.8 | 318               | J    | 125 60      |
| 238618                 | 50  | 460   | 60 | 1.15 | 67.7        | 45100  | 77                     | 52200  | 25-32        | 82.5         | 83.0 | 82.7 | 85.2           | 84.0 | 80.0 | 414               | H    | 200 80      |
| 238628                 | 50  | 575   | 60 | 1.15 | 54.2        | 45100  | 61.6                   | 52200  | 39-48        | 82.5         | 83.0 | 82.7 | 85.2           | 84.0 | 80.0 | 331               | H    | 150 70      |
| 238619                 | 60  | 460   | 60 | 1.15 | 80.5        | 53500  | 91                     | 61700  | 22-27        | 84.2         | 84.5 | 84.0 | 85.0           | 83.3 | 78.0 | 518               | H    | 250 100     |
| 238629                 | 60  | 575   | 60 | 1.15 | 64.4        | 53500  | 72.8                   | 61700  | 35-39        | 84.2         | 84.5 | 84.0 | 85.0           | 83.3 | 78.0 | 414               | H    | 200 80      |
| 8 Inch - 3525 RPM      |     |       |    |      |             |        |                        |        |              |              |      |      |                |      |      |                   |      |             |
| 239600                 | 10  | 460   | 60 | 1.15 | 53          | 35000  | 60                     | 40000  | 255-283      | 86.2         | 86.1 | 84.8 | 86.1           | 84.2 | 78.5 | 407               | K    | 175 70      |
| 239610                 | 40  | 575   | 60 | 1.15 | 42          | 35000  | 48                     | 40000  | 412-456      | 86.0         | 85.9 | 84.8 | 86.0           | 85.0 | 81.0 | 326               | K    | 125 60      |
| 239601                 | 50  | 460   | 60 | 1.15 | 66          | 43000  | 73                     | 49000  | 188-207      | 87.3         | 87.2 | 86.2 | 86.8           | 85.5 | 80.5 | 528               | K    | 200 80      |
| 239611                 | 50  | 575   | 60 | 1.15 | 59          | 43000  | 60                     | 49000  | 290-320      | 86.6         | 86.5 | 85.2 | 87.0           | 86.0 | 80.0 | 422               | K    | 150 70      |
| 239602                 | 60  | 460   | 60 | 1.15 | 79          | 52000  | 89                     | 60000  | 148-163      | 87.8         | 87.5 | 87.2 | 87.8           | 85.9 | 81.3 | 658               | K    | 225 100     |
| 239612                 | 60  | 575   | 60 | 1.15 | 61          | 52000  | 69                     | 60000  | 235-260      | 87.3         | 87.2 | 86.1 | 86.0           | 85.0 | 80.0 | 526               | K    | 175 80      |
| 239603                 | 75  | 460   | 60 | 1.15 | 97          | 64000  | 107                    | 73500  | 110-121      | 88.1         | 88.0 | 86.8 | 88.0           | 86.8 | 82.0 | 833               | K    | 300 125     |
| 239613                 | 75  | 575   | 60 | 1.15 | 78          | 64000  | 85                     | 73500  | 176-193      | 87.5         | 87.4 | 86.2 | 86.0           | 85.0 | 81.0 | 668               | K    | 225 100     |
| 238604                 | 100 | 460   | 60 | 1.15 | 125         | 65000  | 144                    | 97500  | 078-084      | 88.3         | 88.1 | 87.5 | 88.1           | 86.6 | 81.7 | 1212              | L    | 400 175     |
| 239614                 | 100 | 575   | 60 | 1.15 | 104         | 65000  | 115                    | 97500  | 114-126      | 88.0         | 87.8 | 86.4 | 86.8           | 84.0 | 79.0 | 970               | L    | 300 150     |
| 239105                 | 125 | 460   | 60 | 1.15 | 165         | 109000 | 189                    | 125000 | 057-063      | 87.3         | 86.9 | 85.3 | 87.2           | 86.8 | 77.9 | 1318              | K    | 500 225     |
| 239115                 | 125 | 575   | 60 | 1.15 | 136         | 109000 | 150                    | 125000 | 090-100      | 87.2         | 86.8 | 85.3 | 84.3           | 82.6 | 77.5 | 1054              | K    | 400 175     |
| 239106                 | 150 | 460   | 60 | 1.15 | 193         | 128000 | 221                    | 146000 | 049-054      | 87.7         | 87.4 | 86.0 | 86.0           | 84.4 | 79.7 | 1620              | K    | 600 250     |
| 239116                 | 150 | 575   | 60 | 1.15 | 154         | 128000 | 177                    | 146000 | 067-074      | 87.9         | 87.4 | 86.7 | 82.9           | 80.8 | 75.0 | 1296              | K    | 450 200     |
| 239107                 | 175 | 460   | 60 | 1.15 | 218         | 150000 | 250                    | 173000 | 045-050      | 87.3         | 87.0 | 86.7 | 86.8           | 87.5 | 84.8 | 1645              | J    | 700 300     |
| 239117                 | 175 | 575   | 60 | 1.15 | 174         | 150000 | 200                    | 173000 | 087-074      | 88.5         | 88.0 | 86.1 | 86.2           | 85.0 | 80.0 | 1316              | J    | 700 300     |
| 239108                 | 200 | 460   | 60 | 1.15 | 245         | 169000 | 286                    | 194000 | 038-042      | 88.0         | 87.9 | 86.8 | 86.7           | 86.4 | 84.6 | 1875              | J    | 800 350     |
| 239118                 | 200 | 575   | 60 | 1.15 | 196         | 169000 | 229                    | 194000 | 060-066      | 88.0         | 88.0 | 87.0 | 89.5           | 88.6 | 85.3 | 1500              | J    | 600 300     |

Model numbers are three lead motors. Six lead motors with different model numbers have the same running performance, but when we connected for starting have locked rotor amps 33% of the values shown. Six lead individual phase resistance = table X 1.5.

# Application — Three Phase Motors

## Overload Protection Of Three Phase Submersible Motors

The characteristics of submersible motors are different from standard motors and special overload protection is required. If the motor is stalled, the overload protector must trip within 10 seconds to protect the motor windings. The installer must use SUBTROL or the quick-trip protection shown in these tables. All recommended overload selections are of the ambient compensated type to maintain protection at high and low air temperatures.

All heaters and amp settings shown are based on total line amps. When a six-lead motor is used with a Wye-Delta starter, heaters carrying phase amps must be selected or adjusted based on motor amps divided by 1.732.

The tables below list the correct selection and settings for several manufacturers. Approval of other types may be requested.

Refer To Notes On Page 17.

Table 14 60 Hertz 4" Motors

| HP    | Volts | NEMA Starter Size | Heaters For Overload Relays |                        |               | Adjustable Delays |      |
|-------|-------|-------------------|-----------------------------|------------------------|---------------|-------------------|------|
|       |       |                   | Furness (Note 1)            | Allen Bradley (Note 2) | R.E. (Note 3) | Set (Note 4)      | Max. |
| 1/2   | 200   | 00                | K31                         | J16                    | L380A         | 3.2               | 3.4  |
|       | 230   | 00                | K28                         | J14                    | L343A         | 2.7               | 2.9  |
|       | 460   | 00                | —                           | J8                     | L174A         | 1.4               | 1.5  |
|       | 575   | 00                | —                           | J6                     | —             | 1.2               | 1.3  |
| 3/4   | 200   | 00                | K34                         | J19                    | L610A         | 4.1               | 4.4  |
|       | 230   | 00                | K32                         | J17                    | L420A         | 3.5               | 3.8  |
|       | 460   | 00                | K23                         | J10                    | L211A         | 1.8               | 1.9  |
|       | 575   | 00                | K21                         | J8                     | L193A         | 1.5               | 1.6  |
| 1     | 200   | 00                | K37                         | J21                    | L618A         | 5.0               | 5.4  |
|       | 230   | 00                | K36                         | J19                    | L561A         | 4.4               | 4.7  |
|       | 460   | 00                | K26                         | J12                    | L282A         | 2.2               | 2.4  |
|       | 575   | 00                | K23                         | J10                    | L211A         | 1.8               | 1.9  |
| 1 1/2 | 200   | 00                | K42                         | J23                    | L750A         | 6.3               | 6.8  |
|       | 230   | 00                | K39                         | J21                    | L680A         | 5.5               | 5.9  |
|       | 460   | 00                | K29                         | J15                    | L343A         | 2.9               | 3.0  |
|       | 575   | 00                | K26                         | J12                    | L282A         | 2.2               | 2.4  |
| 2     | 200   | 0                 | K50                         | J26                    | L111B         | 8.6               | 9.3  |
|       | 230   | 0                 | K49                         | J25                    | L910A         | 7.5               | 8.1  |
|       | 460   | 00                | K33                         | J18                    | L463A         | 3.8               | 4.1  |
|       | 575   | 00                | K28                         | J15                    | L380A         | 3.0               | 3.2  |
| 3     | 200   | 0                 | K55                         | J28                    | L147B         | 11.6              | 12.5 |
|       | 230   | 0                 | K52                         | J28                    | L122B         | 10.1              | 10.9 |
|       | 460   | 0                 | K37                         | J21                    | L618A         | 5.1               | 5.5  |
|       | 575   | 0                 | K34                         | J19                    | L510A         | 4.1               | 4.4  |
| 5     | 200   | 1                 | K62                         | J34                    | L241B         | 16.1              | 20.5 |
|       | 230   | 1                 | K61                         | J33                    | L199B         | 16.6              | 17.8 |
|       | 460   | 0                 | K49                         | J26                    | L100B         | 8.3               | 8.9  |
|       | 575   | 0                 | K42                         | J23                    | L825A         | 6.6               | 7.1  |
| 7 1/2 | 200   | 1                 | K68                         | J38                    | L322B         | 28.4              | 30.5 |
|       | 230   | 1                 | K67                         | J37                    | L299B         | 24.6              | 26.4 |
|       | 460   | 1                 | K55                         | J30                    | L147B         | 12.3              | 13.2 |
|       | 575   | 1                 | K52                         | J28                    | L122B         | 9.9               | 10.8 |
| 10    | 460   | 1                 | K61                         | J33                    | L220B         | 17.5              | 18.8 |
|       | 575   | 1                 | K57                         | J31                    | L161B         | 14.0              | 15.0 |

Table 15 60 Hertz 6" Motors

| HP    | Volts | NEMA Starter Size | Heaters For Overload Relays |                        |               | Adjustable Delays (Note 4) |       |
|-------|-------|-------------------|-----------------------------|------------------------|---------------|----------------------------|-------|
|       |       |                   | Furness (Note 1)            | Allen Bradley (Note 2) | R.E. (Note 3) | Set                        | Max.  |
| 5     | 200   | 1                 | K61                         | J33                    | L220B         | 17.8                       | 19.1  |
|       | 230   | 1                 | K60                         | J32                    | L199B         | 15.4                       | 16.6  |
|       | 460   | 0                 | K49                         | J26                    | L910B         | 7.7                        | 8.3   |
|       | 575   | 0                 | K41                         | J23                    | L750A         | 6.1                        | 6.6   |
| 7 1/2 | 200   | 1                 | K67                         | J38                    | L322B         | 26.3                       | 28.3  |
|       | 230   | 1                 | K64                         | J36                    | L293B         | 22.9                       | 24.6  |
|       | 460   | 1                 | K54                         | J29                    | L147B         | 11.4                       | 12.3  |
|       | 575   | 1                 | K52                         | J27                    | L111B         | 9.1                        | 9.8   |
| 10    | 200   | 2(1)              | K72                         | J40                    | L426B         | 34.4                       | 37.0  |
|       | 230   | 2(1)              | K70                         | J38                    | L390B         | 29.9                       | 32.2  |
|       | 460   | 1                 | K58                         | J32                    | L161B         | 15.0                       | 15.1  |
|       | 575   | 1                 | K55                         | J30                    | L147B         | 12.0                       | 12.9  |
| 15    | 200   | 3(1)              | K76                         | J43                    | L650B         | 50.7                       | 54.5  |
|       | 230   | 2                 | K75                         | J42                    | L520B         | 44.1                       | 47.4  |
|       | 460   | 2(1)              | K64                         | J35                    | L265B         | 22.0                       | 23.7  |
|       | 575   | 2(1)              | K61                         | J33                    | L220B         | 17.7                       | 19.0  |
| 20    | 200   | 3                 | K78                         | J45                    | L787B         | 64.8                       | 69.7  |
|       | 230   | 3                 | K76                         | J44                    | L710B         | 56.4                       | 60.6  |
|       | 460   | 2                 | K69                         | J38                    | L352B         | 28.2                       | 30.8  |
|       | 575   | 2                 | K64                         | J35                    | L293B         | 22.7                       | 24.4  |
| 25    | 200   | 3                 | K86                         | J71                    | L107C         | 80.8                       | 86.3  |
|       | 230   | 3                 | K83                         | J46                    | L866B         | 69.8                       | 75.0  |
|       | 460   | 2                 | K72                         | J40                    | L426B         | 34.9                       | 37.5  |
|       | 575   | 2                 | K69                         | J37                    | L352B         | 27.9                       | 30.0  |
| 30    | 200   | 4(1)              | K88                         | J72                    | L128C         | 96.7                       | 104.0 |
|       | 230   | 3                 | K87                         | J71                    | L107C         | 84.1                       | 90.4  |
|       | 460   | 3(1)              | K74                         | J41                    | L520B         | 42.0                       | 45.2  |
|       | 575   | 3(1)              | K72                         | J39                    | L390B         | 33.7                       | 36.2  |
| 40    | 460   | 3                 | K77                         | J44                    | L710B         | 57.7                       | 62.0  |
|       | 575   | 3                 | K74                         | J42                    | L593B         | 48.1                       | 49.6  |
| 50    | 460   | 3                 | K89                         | J46                    | L950B         | 71.6                       | 77.0  |
|       | 575   | 3                 | K77                         | J44                    | L710B         | 57.3                       | 61.6  |
| 60    | 460   | 4(1)              | K87                         | J71                    | L107C         | 84.8                       | 91.0  |
|       | 575   | 4(1)              | K78                         | J45                    | L866B         | 67.7                       | 72.8  |

Table 16 60 Hertz 8" Motors

| HP  | Volts  | NEMA Starter Size | Heaters For Overload Relays |                        |               | Adjustable Delays (Note 4) |      |
|-----|--------|-------------------|-----------------------------|------------------------|---------------|----------------------------|------|
|     |        |                   | Furness (Note 1)            | Allen Bradley (Note 2) | R.E. (Note 3) | Set                        | Max. |
| 40  | 460    | 3                 | K77                         | J43                    | L710B         | 56                         | 60   |
|     | 575    | 3                 | K73                         | J41                    | L520B         | 45                         | 48   |
| 50  | 460    | 3                 | K78                         | J46                    | L866B         | 68                         | 73   |
|     | 575    | 3                 | K77                         | J43                    | L710B         | 56                         | 60   |
| 60  | 460    | 4(1)              | K86                         | J70                    | L107C         | 83                         | 89   |
|     | 575    | 4(1)              | K78                         | J44                    | L787B         | 64                         | 69   |
| 75  | 460    | 4(1)              | K89                         | J72                    | L126C         | 100                        | 107  |
|     | 575    | 4(1)              | K85                         | J70                    | L950B         | 79                         | 85   |
| 100 | 460(5) | 4                 | K92                         | J76                    | L155C         | 134                        | 144  |
|     | 575    | 4                 | K90                         | J73                    | L142C         | 108                        | 116  |
| 125 | 460(5) | 5(1)              | K29                         | J15                    | L111B         | 176                        | 189  |
|     | 575(5) | 5(1)              | K26                         | J13                    | L825A         | 140                        | 150  |
| 150 | 460(5) | 5                 | K82                         | J17                    | L122B         | 206                        | 221  |
|     | 575(5) | 5(1)              | K28                         | J14                    | L100B         | 165                        | 177  |
| 175 | 460(5) | 5                 | K33                         | J18                    | L147B         | 233                        | 250  |
|     | 575(5) | 5                 | K31                         | J16                    | L111B         | 186                        | 200  |
| 200 | 460(5) | 5                 | K33                         | J20                    | L165B         | 266                        | 286  |
|     | 575(5) | 5                 | K32                         | J17                    | L135B         | 213                        | 229  |

Notice: Warranty on three phase submersible motors is void unless Subtrol or proper quick trip ambient compensated protection is used in all three motor lines.

# Application Three Phase Motors

13

**Table 11 Three Phase Cable, 60 Hz (Service Entrance to Motor) Maximum Length In Feet**

| Motor Rating                               |       | AWG Copper Wire Size |       |       |      |      |      |       |      |       |       |       |       |       |       |       |      |      |      | KCMIL Copper Wire Size |  |  |  |  |  |
|--------------------------------------------|-------|----------------------|-------|-------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------------------------|--|--|--|--|--|
| HP                                         |       | 14                   | 12    | 10    | 8    | 6    | 4    | 3     | 2    | 1     | 0     | 00    | 000   | 0000  | 250   | 300   | 350  | 400  | 500  |                        |  |  |  |  |  |
| 200V<br>60 Hz<br>Three Phase<br>Three Wire | 1/2   | 710                  | 1140  | 1800  | 2840 | 4420 |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 3/4   | 510                  | 810   | 1280  | 2030 | 3160 |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 1     | 430                  | 680   | 1060  | 1710 | 2670 | 4140 | 5140  |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 1 1/2 | 310                  | 500   | 790   | 1260 | 1980 | 3050 | 3780  |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 2     | 240                  | 380   | 610   | 970  | 1520 | 2360 | 2940  | 3610 | 4480  | 5420  |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 3     | 180                  | 290   | 470   | 740  | 1160 | 1810 | 2250  | 2760 | 3380  | 4180  |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 5     | 110*                 | 170   | 280   | 460  | 690  | 1080 | 1350  | 1680 | 2040  | 2480  | 3050  | 3670  | 4440  | 5030  |       |      |      |      |                        |  |  |  |  |  |
|                                            | 7 1/2 | 0                    | 0     | 200   | 310  | 480  | 770  | 980   | 1180 | 1450  | 1770  | 2170  | 2600  | 3150  | 3560  |       |      |      |      |                        |  |  |  |  |  |
|                                            | 10    | 0                    | 0     | 0     | 230* | 370  | 570  | 720   | 880  | 1090  | 1360  | 1640  | 1970  | 2380  | 2720  | 3100  | 3480 | 3800 | 4120 |                        |  |  |  |  |  |
|                                            | 15    | 0                    | 0     | 0     | 180* | 250* | 390  | 490   | 600  | 740   | 910   | 1110  | 1340  | 1630  | 1850  | 2100  | 2350 | 2570 | 2980 |                        |  |  |  |  |  |
|                                            | 20    | 0                    | 0     | 0     | 0    | 190* | 300* | 380   | 480  | 570   | 700   | 860   | 1050  | 1270  | 1440  | 1650  | 1850 | 2020 | 2380 |                        |  |  |  |  |  |
|                                            | 25    | 0                    | 0     | 0     | 0    | 0    | 240* | 300*  | 370* | 460   | 570   | 700   | 840   | 1030  | 1170  | 1380  | 1560 | 1640 | 1900 |                        |  |  |  |  |  |
| 30                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 250* | 310*  | 380* | 470   | 580   | 700   | 850   | 970   | 1110  | 1250  | 1380 | 1590 |      |                        |  |  |  |  |  |
| 250V<br>60 Hz<br>Three Phase<br>Three Wire | 1/2   | 930                  | 1480  | 2350  | 3700 | 5780 | 8910 |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 3/4   | 670                  | 1080  | 1700  | 2580 | 4190 | 6480 | 8080  | 9860 |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 1     | 580                  | 910   | 1430  | 2280 | 3620 | 5480 | 6780  | 8290 |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 1 1/2 | 420                  | 670   | 1060  | 1670 | 2610 | 4050 | 5030  | 6180 | 7530  | 8170  |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 2     | 320                  | 510   | 810   | 1280 | 2010 | 3180 | 3880  | 4770 | 5860  | 7170  | 8780  |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 3     | 240                  | 390   | 620   | 980  | 1540 | 2400 | 2980  | 3660 | 4480  | 5470  | 6590  | 8020  | 9680  |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 5     | 140*                 | 230   | 370   | 580  | 920  | 1430 | 1790  | 2190 | 2690  | 3290  | 4030  | 4850  | 5870  | 6850  | 7850  | 8460 | 9220 |      |                        |  |  |  |  |  |
|                                            | 7 1/2 | 0                    | 160*  | 260   | 430  | 650  | 1020 | 1270  | 1580 | 1920  | 2340  | 2870  | 3440  | 4160  | 4710  | 5440  | 5970 | 6500 | 7510 |                        |  |  |  |  |  |
|                                            | 10    | 0                    | 0     | 190*  | 310  | 480  | 760  | 950   | 1170 | 1440  | 1760  | 2180  | 2610  | 3160  | 3590  | 4100  | 4600 | 5020 | 5840 |                        |  |  |  |  |  |
|                                            | 15    | 0                    | 0     | 0     | 210* | 330  | 520  | 650   | 800  | 980   | 1200  | 1470  | 1780  | 2150  | 2440  | 2780  | 3110 | 3400 | 3840 |                        |  |  |  |  |  |
|                                            | 20    | 0                    | 0     | 0     | 0    | 250* | 400  | 500   | 610  | 760   | 930   | 1140  | 1380  | 1680  | 1910  | 2180  | 2450 | 2680 | 3120 |                        |  |  |  |  |  |
|                                            | 25    | 0                    | 0     | 0     | 0    | 0    | 320* | 400   | 500  | 610   | 760   | 920   | 1120  | 1380  | 1540  | 1780  | 1980 | 2180 | 2520 |                        |  |  |  |  |  |
| 30                                         | 0     | 0                    | 0     | 0     | 0    | 260* | 330* | 410*  | 510  | 620   | 760   | 930   | 1130  | 1280  | 1470  | 1650  | 1800 | 2110 |      |                        |  |  |  |  |  |
| 480V<br>60Hz<br>Three Phase<br>Three Wire  | 1/2   | 9770                 | 16020 | 24950 |      |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 3/4   | 7230                 | 11850 | 18550 |      |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 1     | 6300                 | 10360 | 15770 | 9070 |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 1 1/2 | 4700                 | 7710  | 11770 | 6730 |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 2     | 3200                 | 5270  | 8270  | 5150 | 9050 |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 3     | 1000                 | 1600  | 2520  | 1580 | 2840 | 4100 | 5100  | 6260 | 7680  |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 5     | 580                  | 950   | 1500  | 2360 | 3700 | 5750 |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 7 1/2 | 420                  | 680   | 1070  | 1850 | 2840 | 4100 | 5100  | 6260 | 7680  |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 10    | 310                  | 500   | 790   | 1250 | 1960 | 3050 | 3800  | 4680 | 5750  | 7050  |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 15    | 0                    | 340*  | 540   | 850  | 1240 | 2090 | 2600  | 3200 | 3930  | 4810  | 5900  | 7110  |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 20    | 0                    | 0     | 410*  | 650  | 1030 | 1610 | 2000  | 2470 | 3040  | 3730  | 4580  | 5590  |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 25    | 0                    | 0     | 0     | 580* | 840  | 1300 | 1620  | 1990 | 2450  | 3010  | 3700  | 4470  | 5480  |       |       |      |      |      |                        |  |  |  |  |  |
| 30                                         | 0     | 0                    | 0     | 430*  | 680  | 1070 | 1390 | 1840  | 2030 | 2490  | 3080  | 3700  | 4600  | 5130  | 5880  |       |      |      |      |                        |  |  |  |  |  |
| 35                                         | 0     | 0                    | 0     | 0     | 500* | 790  | 980  | 1210  | 1480 | 1830  | 2250  | 2710  | 3290  | 3730  | 4250  |       |      |      |      |                        |  |  |  |  |  |
| 40                                         | 0     | 0                    | 0     | 0     | 0    | 640* | 800  | 980   | 1210 | 1480  | 1810  | 2180  | 2650  | 3010  | 3420  | 3890  | 4180 | 4860 |      |                        |  |  |  |  |  |
| 45                                         | 0     | 0                    | 0     | 0     | 0    | 540* | 670* | 820*  | 1020 | 1250  | 1540  | 1850  | 2240  | 2540  | 2890  | 3240  | 3540 | 4100 |      |                        |  |  |  |  |  |
| 50                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 680*  | 840* | 1030* | 1280  | 1620  | 1950  | 2100  | 2400  | 2700  | 2950 | 3440 |      |                        |  |  |  |  |  |
| 55                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 820* | 1000* | 1240  | 1540  | 1850  | 2100  | 2400  | 2700  | 2950 | 3440 |      |                        |  |  |  |  |  |
| 60                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 810*  | 990*  | 1080* | 1190* | 1300 | 1510 |      |                        |  |  |  |  |  |
| 65                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    |      |                        |  |  |  |  |  |
| 70                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    |      |                        |  |  |  |  |  |
| 75                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    |      |                        |  |  |  |  |  |
| 80                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    |      |                        |  |  |  |  |  |
| 85                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    |      |                        |  |  |  |  |  |
| 90                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    |      |                        |  |  |  |  |  |
| 95                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    |      |                        |  |  |  |  |  |
| 100                                        | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    |      |                        |  |  |  |  |  |
| 575V<br>80Hz<br>Three Phase<br>Three Wire  | 1/2   | 5800                 | 9410  |       |      |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 3/4   | 4270                 | 6810  |       |      |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 1     | 3630                 | 5800  | 9120  |      |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 1 1/2 | 2520                 | 4180  | 6580  |      |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 2     | 2030                 | 3250  | 5110  | 8080 |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 3     | 1580                 | 2530  | 3980  | 6270 |      |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 5     | 920                  | 1480  | 2330  | 3680 | 5750 |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 7 1/2 | 680                  | 1080  | 1690  | 2650 | 4150 |      |       |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 10    | 490                  | 780   | 1240  | 1950 | 3080 | 4770 | 5940  |      |       |       |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 15    | 330*                 | 530   | 850   | 1340 | 2090 | 3250 | 4060  | 3860 | 4780  | 5820  |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 20    | 0                    | 410*  | 650   | 1020 | 1610 | 2520 | 3140  | 3110 | 3840  | 4710  |       |       |       |       |       |      |      |      |                        |  |  |  |  |  |
|                                            | 25    | 0                    | 0     | 520*  | 830  | 1300 | 2030 | 2530  | 3160 | 3980  | 4770  | 5780  | 7030  | 8000  |       |       |      |      |      |                        |  |  |  |  |  |
| 30                                         | 0     | 0                    | 490*  | 860   | 1070 | 1670 | 2080 | 2560  | 3160 | 3980  | 4770  | 5780  | 7030  | 8000  |       |       |      |      |      |                        |  |  |  |  |  |
| 35                                         | 0     | 0                    | 0     | 500*  | 790  | 1240 | 1840 | 1900  | 2330 | 2880  | 3510  | 4260  | 5140  | 5830  |       |       |      |      |      |                        |  |  |  |  |  |
| 40                                         | 0     | 0                    | 0     | 0     | 640* | 1000 | 1250 | 1540  | 1890 | 2310  | 2840  | 3420  | 4140  | 4700  | 5340  | 5890  | 6530 | 7680 |      |                        |  |  |  |  |  |
| 45                                         | 0     | 0                    | 0     | 0     | 0    | 850* | 1060 | 1300  | 1600 | 1960  | 2400  | 2890  | 3500  | 3970  | 4520  | 5070  | 5590 | 6410 |      |                        |  |  |  |  |  |
| 50                                         | 0     | 0                    | 0     | 0     | 0    | 620* | 860* | 1050* | 1310 | 1600  | 1970  | 2360  | 2890  | 3290  | 3790  | 4220  | 4610 | 5370 |      |                        |  |  |  |  |  |
| 55                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 770* | 950*  | 1160* | 1400  | 1690  | 1920  | 2180  | 2440  | 2650 | 3070 |      |                        |  |  |  |  |  |
| 60                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 800*  | 990*  | 1190* | 1440  | 1680  | 2080  | 2270  | 2640 |      |      |                        |  |  |  |  |  |
| 65                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 870*  | 1050* | 1270* | 1460* | 1650  | 1860  | 2030 | 2360 |      |                        |  |  |  |  |  |
| 70                                         | 0     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     | 820*  | 1110* | 1260* | 1440* | 1620  | 1780 | 2060 |      |                        |  |  |  |  |  |
| 480V-80Hz<br>Three Phase<br>Six Wire       | 1/2   | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 510* | 630*  | 770*  | 950   | 1140  | 1380  | 1570  | 1790  | 2000 | 2180 | 2530 |                        |  |  |  |  |  |
|                                            | 3/4   | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 550*  | 680*  | 830*  | 1000  | 1220  | 1390  | 1580  | 1780 | 1950 | 2270 |                        |  |  |  |  |  |
|                                            | 1     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 590*  | 730*  | 880*  | 1070  | 1210  | 1380  | 1550 | 1690 | 1970 |                        |  |  |  |  |  |
| 575V-80Hz<br>Three Phase<br>Six Wire       | 1/2   | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 650* | 800*  | 990*  | 1210  | 1480  | 1780  | 2160  | 2430  | 2790 | 3120 | 3610 |                        |  |  |  |  |  |
|                                            | 3/4   | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 700* | 860*  | 1060* | 1300  | 1570  | 1910  | 2170  | 2480  | 2780 | 3040 | 3540 |                        |  |  |  |  |  |
|                                            | 1     | 0                    | 0     | 0     | 0    | 0    | 0    | 0     | 760* | 930*  | 1140  | 1370  | 1670  | 1950  | 2180  | 2420  | 2640 | 3070 |      |                        |  |  |  |  |  |

See page 10 for additional footnotes.

The portion of the total cable between the service entrance and a 30' draw shall be: