

AURORA® SERIES 340/360
MODELS 341A, 342A, 361A, AND 362A
60 HERTZ MOTOR DATA SHEET
1 PHASE: NOT AVAILABLE
3 PHASE: 200 (ONLY) OR 230/460 OR 575 VOLTS
JM AND JP MOTOR FRAMES

Section **340/360** Page **71**
 Date **JUNE 2013**
 Supersedes **OCTOBER 1985**

| HP | RPM | C FLANGE MOTORS HORIZONTAL FOOT MOUNTED 143-184JM ONLY-SUPPORT FOOT MOUNTED ON PUMP O.D.P. - TOTALLY ENC. - EXP. PROOF | | | | MAGNETIC STARTER SIZE REQ'D NEMA 1 ENCLOSURE | | | APPROXIMATE FULL LOAD AMPS. | | | |
|-------|------|---|-----------------------------|-------------------------------|---|--|------|------|-----------------------------------|------|------|------|
| | | OPEN DRIPPROOF FRAME | SERVICE FACTOR O.D.P. | TEFC & EXP. PROOF FRAME | SERVICE FACTOR TEFC & EXP. PROOF | 200V & 230V | 460V | 575V | 200V | 230V | 460V | 575V |
| 1 | 1750 | 143 | 1.15 | 143 | 1.0 | 00 | 00 | 00 | 4.0 | 3.5 | 1.8 | 1.4 |
| | 1150 | 145 | | 145 | | | | | | | | |
| 1-1/2 | 3500 | 143 | 1.15 | 143 | 1.0 | 00 | 00 | 00 | 5.4 | 4.7 | 2.4 | 1.9 |
| | 1750 | 145 | | 145 | | | | | | | | |
| | 1150 | 182 | | 182 | | | | | | | | |
| 2 | 3500 | 145 | 1.15 | 145 | 1.0 | 0 | 00 | 00 | 6.9 | 6 | 3 | 2.4 |
| | 1750 | 145 | | 145 | | | | | | | | |
| | 1150 | 184 | | 184 | | | | | | | | |
| 3 | 3500 | 145 | 1.15 | 182 | 1.0 | 0 | 0 | 0 | 9.9 | 8.6 | 4.3 | 3.4 |
| | 1750 | 182 | | 182 | | | | | | | | |
| | 1150 | 213 | | 213 | | | | | | | | |
| 5 | 3500 | 182 | 1.15 | 184 | 1.0 | 1 | 0 | 0 | 15.9 | 13.8 | 6.9 | 5.5 |
| | 1750 | 184 | | 184 | | | | | | | | |
| | 1150 | 215 | | 215 | | | | | | | | |
| 7-1/2 | 3500 | 184 | 1.15 | 213 | 1.0 | 1 | 1 | 1 | 24.3 | 21.1 | 10.5 | 8.4 |
| | 1750 | 213 | | 213 | | | | | | | | |
| | 1150 | 254 | | 254 | | | | | | | | |
| 10 | 3500 | 213 | 1.15 | 215 | 1.0 | 2 | 1 | 1 | 31 | 27 | 13.5 | 10.8 |
| | 1750 | 215 | | 215 | | | | | | | | |
| | 1150 | 256 | | 256 | | | | | | | | |
| 15 | 3500 | 215 | 1.15 | 254 | 1.0 | 3 | 2 | 2 | 45 | 39.2 | 19.6 | 15.7 |
| | 1750 | 254 | | 254 | | | | | | | | |
| | 1150 | 284 | | 284 | | | | | | | | |
| 20 | 3500 | 254 | 1.15 | 256 | 1.0 | 3 | 2 | 2 | 58.7 | 51 | 25.5 | 20 |
| | 1750 | 256 | | 256 | | | | | | | | |
| | 1150 | 286 | | 286 | | | | | | | | |
| 25 | 3500 | 256 | 1.15 | 284 | 1.0 | 3 | 2 | 2 | 72.7 | 63.2 | 31.6 | 25 |
| | 1750 | 284 | | 284 | | | | | | | | |
| | 1150 | 324 | | 324 | | | | | | | | |
| 30 | 3500 | 284 | 1.15 | 286 | 1.0 | 4 | 3 | 3 | 97.8 | 76.7 | 38.3 | 31 |
| | 1750 | 286 | | 286 | | | | | | | | |
| | 1150 | 326 | | 326 | | | | | | | | |
| 40 | 3500 | 286 | 1.15 | 324 | 1.0 | 4 | 3 | 3 | 115 | 100 | 50 | 40 |
| | 1750 | 324 | | 324 | | | | | | | | |
| 50 | 3500 | 324 | 1.15 | 326 | 1.0 | 5 | 3 | 3 | 141 | 123 | 61.5 | 49 |
| | 1750 | 326 | | 326 | | | | | | | | |
| 60 | 3500 | 326 | 1.15 | N/A | 1.0 | 5 | 4 | 4 | 163 | 142 | 71 | 57 |

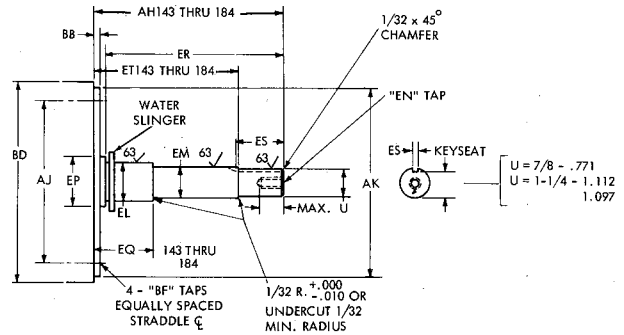
NOTES:

1. APPROXIMATE FULL LOAD AMPS BASED ON AVERAGES FOR AURORA STANDARD O.D.P. MOTORS.
2. MAGNETIC STARTER SIZE BASED ON AURORA STANDARD O.D.P. MOTORS.
3. MODELS 341A & 342A USE JM MOTOR FRAMES.
MODELS 361A & 362A USE JP MOTOR FRAMES.

AURORA® SERIES 340/360
 MODELS 341A, 342A, 361A, AND 362A
 SHAFT EXTENSION
 JM AND JP MOTOR FRAMES

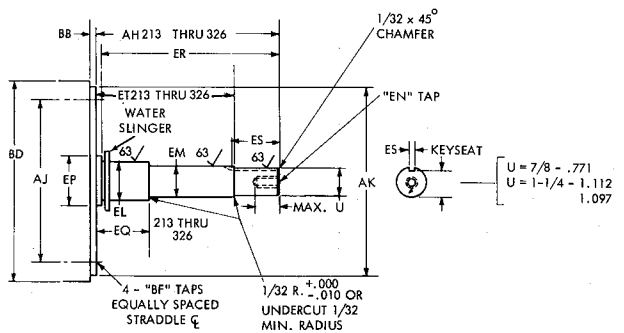
| MOTOR FRAME SIZES | 340 U | 360 U | 340 AH | 360 AH | AJ | AK | BB | BD | 340 EL | 360 EL |
|-------------------|------------------|------------------|--------|--------|-------|-----------------|-----------------|-------|-----------------|-----------------|
| 143 | 7/8 | 7/8 | 4-1/4 | 7-5/16 | 5-7/8 | 4-1/2 | 5/32 | 6-5/8 | 1-5/32 | 1-5/32 |
| & 145 | .8745 .8740 | .8745 .8740 | ±.031 | ±.031 | | +0.000 -.003 | +0.000 -.031 | MAX. | +0.000 -.002 | +0.000 -.002 |
| 182 | 7/8 | 7/8 | 4-1/4 | 7-5/16 | 5-7/8 | 4-1/2 | 5/32 | 6-5/8 | 1-1/4 | 1-1/4 |
| & 184 | .8745 .8740 | .8745 .8740 | ±.031 | ±.031 | | +0.000 -.003 | +0.000 -.031 | MAX. | +0.000 -.002 | +0.000 -.002 |
| 213 | 7/8 | 1-1/4 | 4-1/4 | 8-1/8 | 7-1/4 | 8-1/2 | 5/16 | 9 | 1-1/4 | 1-3/4 |
| & 215 | .8745 .8740 | 1.2495 1.2490 | ±.031 | ±.031 | | +0.000 -.003 | +0.000 -.062 | MAX. | +0.000 -.002 | +0.000 -.002 |
| 254 | 1-1/4 | 1-1/4 | 5-1/4 | 8-1/8 | 7-1/4 | 8-1/2 | 5/16 | 10 | 1-3/4 | 1-3/4 |
| & 256 | 1.2495 1.2490 | 1.2495 1.2490 | ±.031 | ±.031 | | +0.000 -.003 | +0.000 -.062 | MAX. | +0.000 -.002 | +0.000 -.002 |
| 284 | 1-1/4 | 1-1/4 | 5-1/4 | 8-1/8 | 11 | 12-1/2 | 5/16 | 14 | 1-3/4 | 1-3/4 |
| Thru 326 | 1.2490 1.3490 | 1.2490 1.3490 | ±.031 | ±.031 | | +0.000 -.005 | +0.000 -.062 | MAX. | +0.000 -.002 | +0.000 -.002 |

| MOTOR FRAME SIZES | 340 EM | 360 EM | EP | 340 EQ | 360 EQ | 340 ER | 360 ER | 340 ET | 360 ET |
|-------------------|-------------------|-------------------|--------|--------|--------|--------|--------|--------|---------|
| 143 | 1 | 1 | 1-5/32 | 5/8 | 1-9/16 | 4-1/4 | 7-5/16 | 2-7/8 | 5-15/16 |
| & 145 | .0000 .0005 | .0000 .0005 | MIN. | ±.015 | ±.015 | MIN. | MIN. | ±.015 | ±.015 |
| 182 | 1 | 1 | 1-1/4 | 5/8 | 1-9/16 | 4-1/4 | 7-5/16 | 2-7/8 | 5-15/16 |
| & 184 | +0.0000 -.0005 | +0.0000 -.0005 | MIN. | ±.015 | ±.015 | MIN. | MIN. | ±.015 | ±.015 |
| 213 | 1 | 1-3/8 | 1-3/4 | 5/8 | 2-3/8 | 4-1/4 | 8-1/8 | 2-7/8 | 5-7/8 |
| & 215 | +0.0000 -.0005 | +0.0000 -.0005 | MIN. | ±.015 | ±.015 | MIN. | MIN. | ±.015 | ±.015 |
| 254 | 1-3/8 | 1-3/8 | 1-3/4 | 5/8 | 2-3/8 | 5-1/4 | 8-1/8 | 3 | 5-7/8 |
| & 256 | +0.0000 -.0005 | +0.0000 -.0005 | MIN. | ±.015 | ±.015 | MIN. | MIN. | ±.015 | ±.015 |
| 284 | 1-3/8 | 1-3/8 | 2-1/8 | 5/8 | 2-3/8 | 5-1/4 | 8-1/8 | 3 | 5-7/8 |
| Thru 326 | +0.0000 -.0005 | +0.0000 -.0005 | MIN. | ±.020 | ±.020 | MIN. | MIN. | ±.020 | ±.020 |



143 - 184 MOTOR FRAME DIMENSIONS

| MOTOR FRAME SIZES | ES | | EN | | | | | | BF | |
|-------------------|--------------|------------------------|-----------------------------|-----------------------------|----------------------|----------------------|-------------------|-------------------|------------------|-------------------|
| | LENGTH | WIDTH | TAP SIZE CLASS 3 R.H. THR'D | TAP SIZE CLASS 3 R.H. THR'D | TAP DRILL DEPTH MAX. | TAP DRILL DEPTH MAX. | BOLT PENE-TRATION | BOLT PENE-TRATION | TAP SIZE CLASS 2 | BOLT PENE-TRATION |
| 143 & 145 | 1.65 MIN. | 3/16 +.002 -.000 | 3/8-16 | 3/8-16 | 1-1/8 | 1-1/8 | 3/4 | 3/4 | 3/8-16 | 9/16 |
| 182 & 184 | 1.65 MIN. | 3/16 +.002 -.000 | 3/8-16 | 3/8-16 | 1-1/8 | 1-1/8 | 3/4 | 3/4 | 3/8-16 | 9/16 |
| 213 & 215 | 1.65 MIN. | * +.002 -.000 | 3/8-16 | 1/2-13 | 1-1/8 | 1-1/2 | 3/4 | 1 | 1/2-13 | 3/4 |
| 254 & 256 | 2.53 MIN. | 1/4 +.002 -.000 | 1/2-13 | 1/2-13 | 1-1/2 | 1-1/2 | 1 | 1 | 1/2-13 | 3/4 |
| 284 Thru 326 | 2.50 MIN. | 1/4 +.002 -.000 | 1/2-13 | 1/2-13 | 1-1/2 | 1-1/2 | 1 | 1 | 5/8-11 | 15/16 |



213 - 326 MOTOR FRAME DIMENSIONS

NOTES:

1. SHAFT MATERIAL - AISI 1018 STEEL
2. WATER SLINGER TO BE FURNISHED WITH MOTOR
3. END PLAY NOT TO EXCEED .005
4. SHAFT DIAMETERS AND RABBIT TO BE CONCENTRIC WITHIN .004 TIR
5. JM MOTORS ARE USED ON 340 SERIES PUMPS.
JP MOTOR ARE USED ON 360 SERIES PUMPS.

*KEYWAY WIDTH FOR 213-215 MOTOR FRAME SIZES:
 JM MOTORS = 3/16" WIDE
 JP MOTORS = 1/4" WIDE

SELECTION CHART

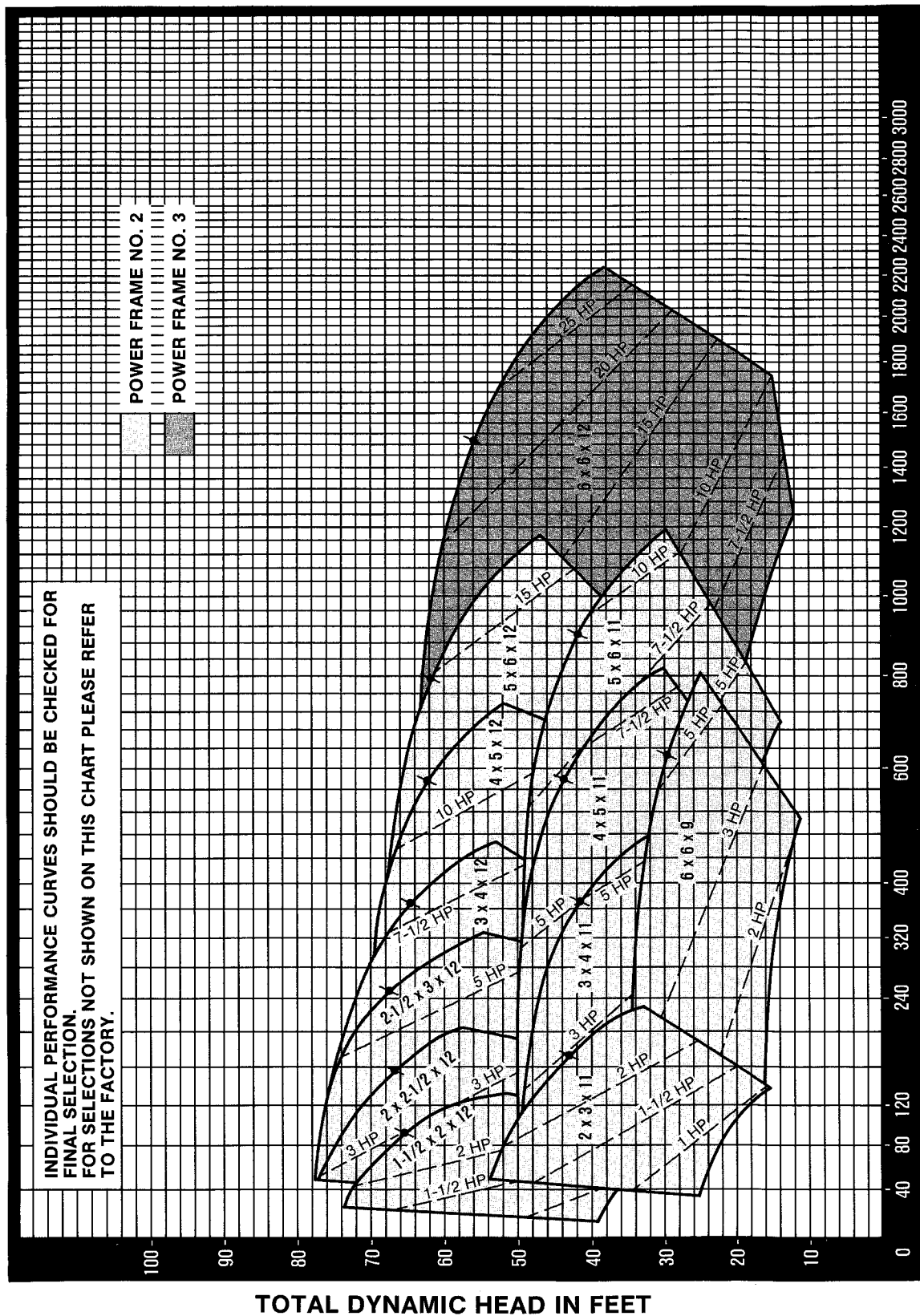
Dated **June 2013**

1150 R.P.M.

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Dated November 1985

ENCLOSED IMPELLER



Dated June 2013

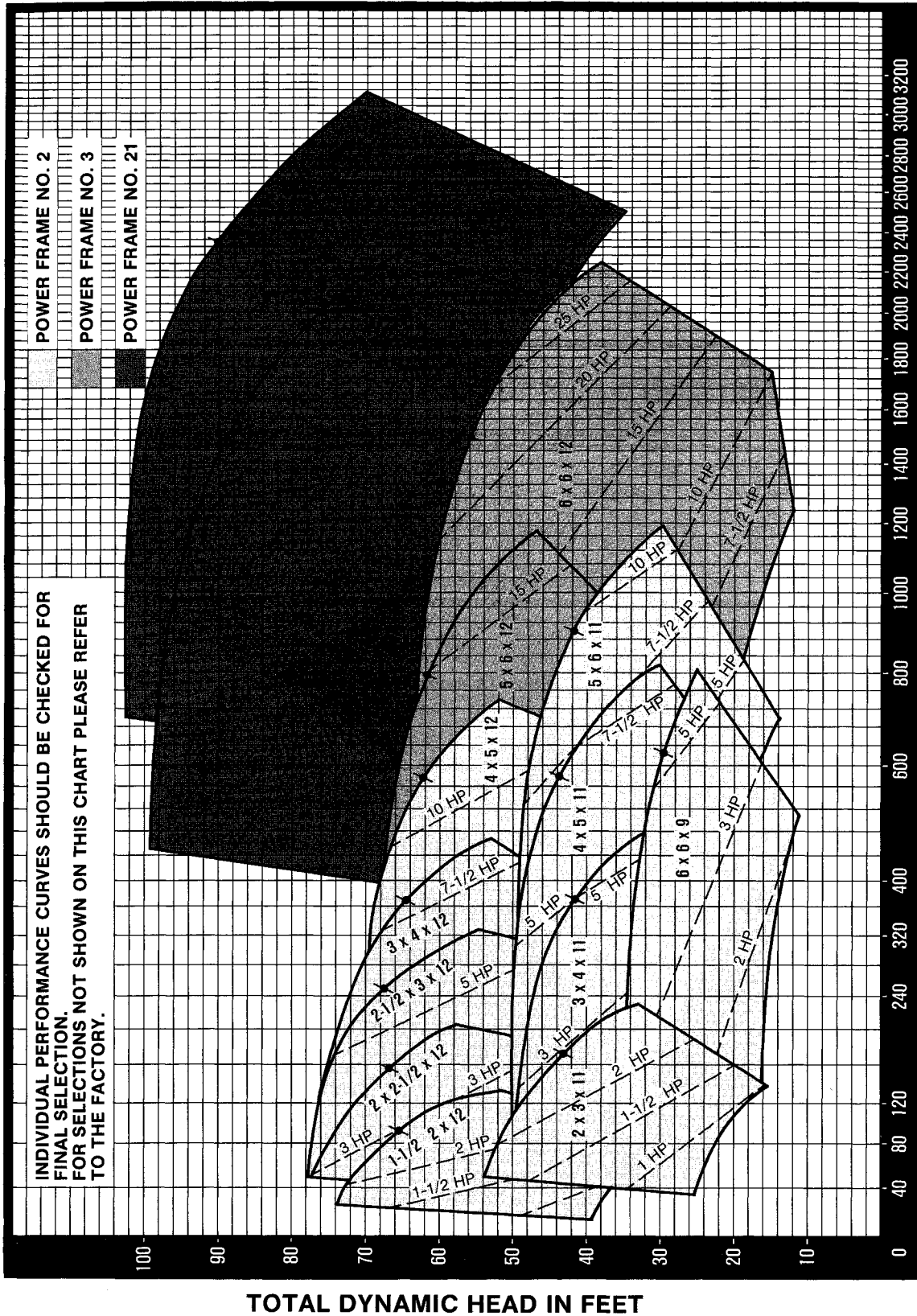
SELECTION CHART

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1150 R.P.M.

Dated January 2003

ENCLOSED IMPELLER



INDIVIDUAL PERFORMANCE CURVES SHOULD BE CHECKED FOR FINAL SELECTION. FOR SELECTIONS NOT SHOWN ON THIS CHART PLEASE REFER TO THE FACTORY.

CAPACITY IN GALLONS PER MINUTE

TOTAL DYNAMIC HEAD IN FEET