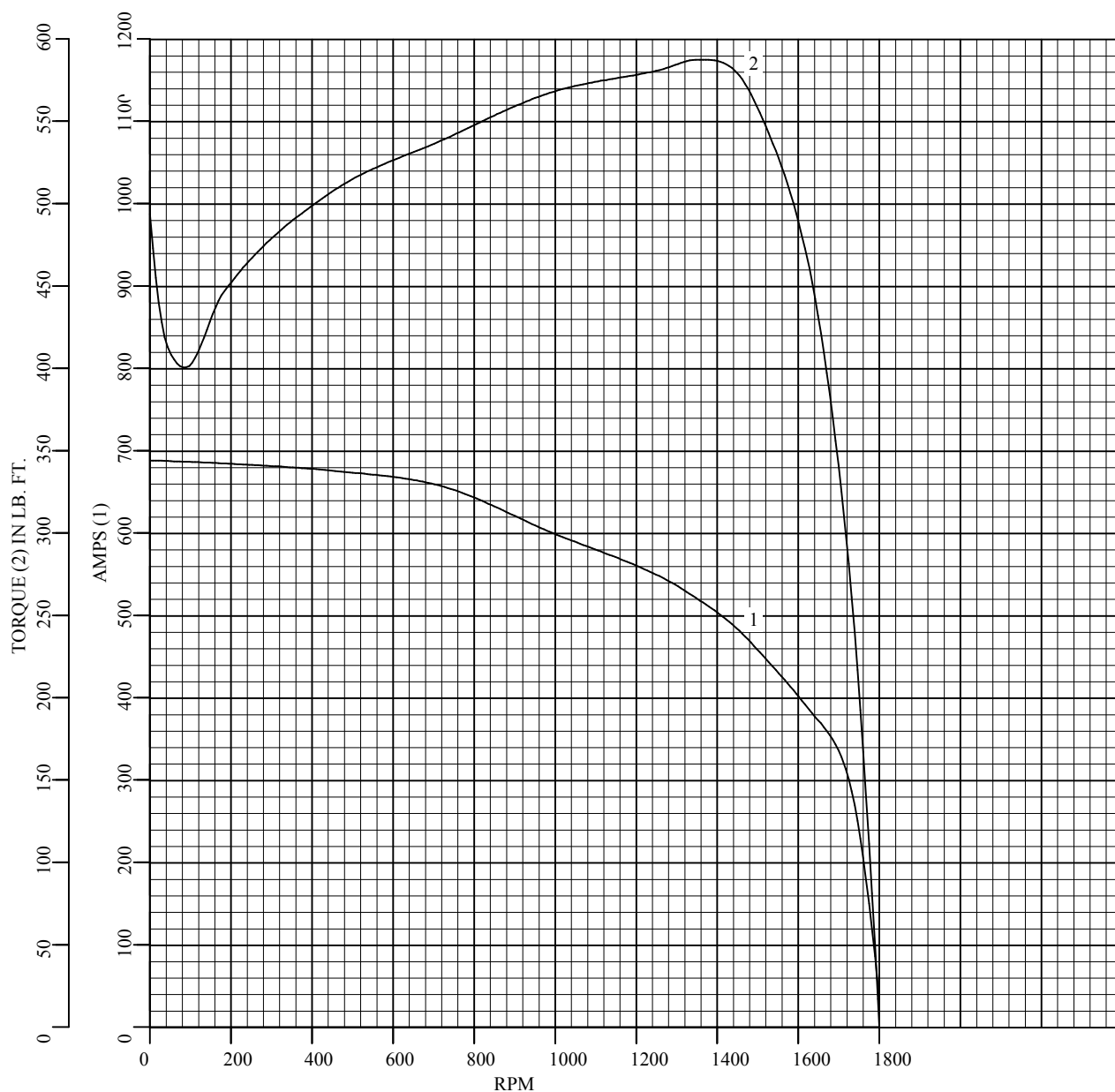


|                                                                                                                                                     |        |                                                                                        |                                                      |                                                                                      |              |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------|--------------|-------------|
| S.O.                                                                                                                                                | FRAME  | HP                                                                                     | TYPE                                                 | PHASE                                                                                | HERTZ        | RPM         |
| --                                                                                                                                                  | HL405T | 100                                                                                    | PSM                                                  | 3                                                                                    | 60           | 1800        |
|                                                                                                                                                     |        |                                                                                        |                                                      |                                                                                      |              |             |
| VOLTS                                                                                                                                               | AMPS   | DUTY                                                                                   | AMB <sup>o</sup> C                                   | INSUL                                                                                | S.F.         | NEMA DESIGN |
| 460                                                                                                                                                 | 96.9   | CONT                                                                                   | 40                                                   | H                                                                                    | 1.15         | B           |
|                                                                                                                                                     |        |                                                                                        |                                                      |                                                                                      |              |             |
| CODE LETTER                                                                                                                                         | ENCL   | ROTOR INERTIA (lb-ft <sup>2</sup> )                                                    | STATOR RES. @ 25 <sup>o</sup> C OHMS (BETWEEN LINES) |                                                                                      |              |             |
| F                                                                                                                                                   | TEFC   | 11.1                                                                                   | .06784                                               |                                                                                      | TYPICAL DATA |             |
| PERFORMANCE                                                                                                                                         |        |                                                                                        |                                                      |                                                                                      |              |             |
| LOAD                                                                                                                                                | HP     | AMPERES                                                                                | RPM                                                  | % POWER FACTOR                                                                       | % EFFICIENCY |             |
| NO LOAD                                                                                                                                             | 0      | 32.1                                                                                   | 1800                                                 | 3.50                                                                                 | N/A          |             |
| 1/4                                                                                                                                                 | 25.0   | 28.3                                                                                   | 1800                                                 | 86.8                                                                                 | 95.3         |             |
| 2/4                                                                                                                                                 | 49.9   | 49.0                                                                                   | 1800                                                 | 98.7                                                                                 | 96.8         |             |
| 3/4                                                                                                                                                 | 74.9   | 72.6                                                                                   | 1800                                                 | 99.4                                                                                 | 97.2         |             |
| 4/4                                                                                                                                                 | 99.8   | 96.9                                                                                   | 1800                                                 | 99.1                                                                                 | 97.3         |             |
| 5/4                                                                                                                                                 | 125    | 122                                                                                    | 1800                                                 | 98.3                                                                                 | 97.2         |             |
| SPEED TORQUE                                                                                                                                        |        |                                                                                        |                                                      |                                                                                      |              |             |
|                                                                                                                                                     |        | RPM                                                                                    | TORQUE (% FULL LOAD)                                 | TORQUE (lb-ft)                                                                       | AMPERES      |             |
| LOCKED ROTOR                                                                                                                                        |        | 0                                                                                      | 169                                                  | 493.9                                                                                | 688.0        |             |
| PULL OUT                                                                                                                                            |        | 1800                                                                                   | 220                                                  | 642.1                                                                                | 275.6        |             |
| FULL LOAD                                                                                                                                           |        | 1800                                                                                   | 100                                                  | 291.5                                                                                | 96.9         |             |
| <p>THIS IS A PERMANENT MAGNET MOTOR</p> <p>GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25<sup>o</sup>C = 22.1 VOLTS PER 100 RPM</p> <p>REMARKS:</p> |        |                                                                                        |                                                      |                                                                                      |              |             |
|                                                                  |        | DR. BY <u>CAD</u><br>CK. BY <u>RFM</u><br>APP. BY <u>RFM</u><br>DATE <u>05/25/2016</u> |                                                      | <b>LSPM MOTOR</b><br><b>PERFORMANCE DATA</b> <b>LS7024A</b><br>ISSUE DATE 05/25/2016 |              |             |

|       |        |       |      |       |      |                                       |        |
|-------|--------|-------|------|-------|------|---------------------------------------|--------|
| S.O.  | --     | HERTZ | 60   | AMB°C | 40   | CODE LETTER                           | F      |
| FRAME | HL405T | RPM   | 1800 | INSUL | H    | WK <sup>2</sup> (lb-ft <sup>2</sup> ) | 11.1   |
| HP    | 100    | VOLTS | 460  | S.F.  | 1.15 | NEMA DESIGN                           | B      |
| TYPE  | PSM    | AMPS  | 96.9 | ENCL  | TEFC | STATOR RES. @ 25°C                    | .06784 |
| PHASE | 3      | DUTY  | CONT |       |      | OHMS (BETWEEN LINES)                  |        |

## Amps & Torque vs. RPM During Acceleration



TYPICAL DATA

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CK. BY RFM  
APP. BY RFM  
DATE 05/25/2016

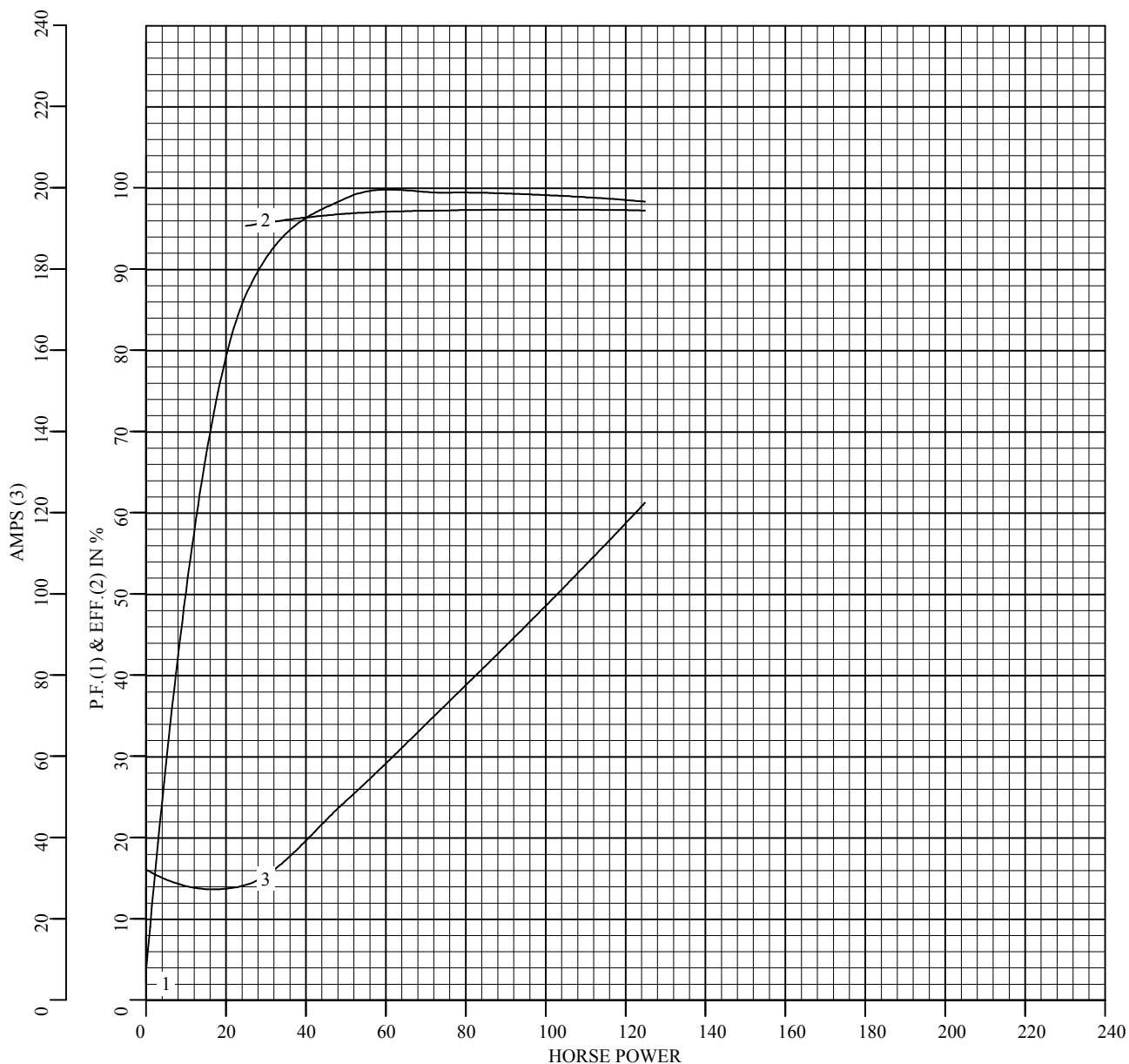
**LSPM MOTOR  
PERFORMANCE  
CURVES**

**LS7024A**

ISSUE DATE 05/25/2016

|       |        |       |      |       |      |                                       |        |
|-------|--------|-------|------|-------|------|---------------------------------------|--------|
| S.O.  | --     | HERTZ | 60   | AMB°C | 40   | CODE LETTER                           | F      |
| FRAME | HL405T | RPM   | 1800 | INSUL | H    | WK <sup>2</sup> (lb-ft <sup>2</sup> ) | 11.1   |
| HP    | 100    | VOLTS | 460  | S.F.  | 1.15 | NEMA DESIGN                           | B      |
| TYPE  | PSM    | AMPS  | 96.9 | ENCL  | TEFC | STATOR RES. @ 25°C                    | .06784 |
| PHASE | 3      | DUTY  | CONT |       |      | OHMS (BETWEEN LINES)                  |        |

## Performance Data vs. HP At Synchronous Speed



TYPICAL DATA

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