

## AC induction motor performance data

Record #85935 - Typical performance - not guaranteed values

|           |           |
|-----------|-----------|
| Winding   | 09WGA0212 |
| Type      | 0954M     |
| Enclosure | PART      |

### Nameplate data

|                |    |              |  |         |
|----------------|----|--------------|--|---------|
| Rated Output   |    |              |  | 40      |
| Volts          |    |              |  | 230/460 |
| Full Load Amps |    |              |  | 100/50  |
| R.P.M.         |    |              |  | 1755    |
| Hz             | 60 | Phase        |  | 3       |
| KVA Code       |    |              |  | F       |
| S.F.           |    |              |  | 1.15    |
| NEMA Nom. Eff. | 93 | Power Factor |  | 80      |
| Duty           |    |              |  | 15 MIN  |
| S.F. Amps      |    |              |  |         |

460 V, 60 Hz:

### High Voltage Connection

|                           |                         |
|---------------------------|-------------------------|
| Full Load Torque          | 119 LB-FT               |
| Start Configuration       | direct on line          |
| Breakdown Torque          | 362 LB-FT               |
| Pull-up Torque            | 159 LB-FT               |
| Locked-rotor Torque       | 184 LB-FT               |
| Starting Current          | 271 A                   |
| No-load Current           | 22.48                   |
| Line-line Res. @ 25°C     | 0.253 $\Omega$          |
| Temp. Rise @ Rated Load   | 63°C                    |
| Temp. Rise @ S.F. Load    | 82°C                    |
| Locked-rotor Power Factor | 34.6                    |
| Rotor inertia             | 2.35 lb-ft <sup>2</sup> |

### Load Characteristics 460 V, 60 Hz, 40 HP

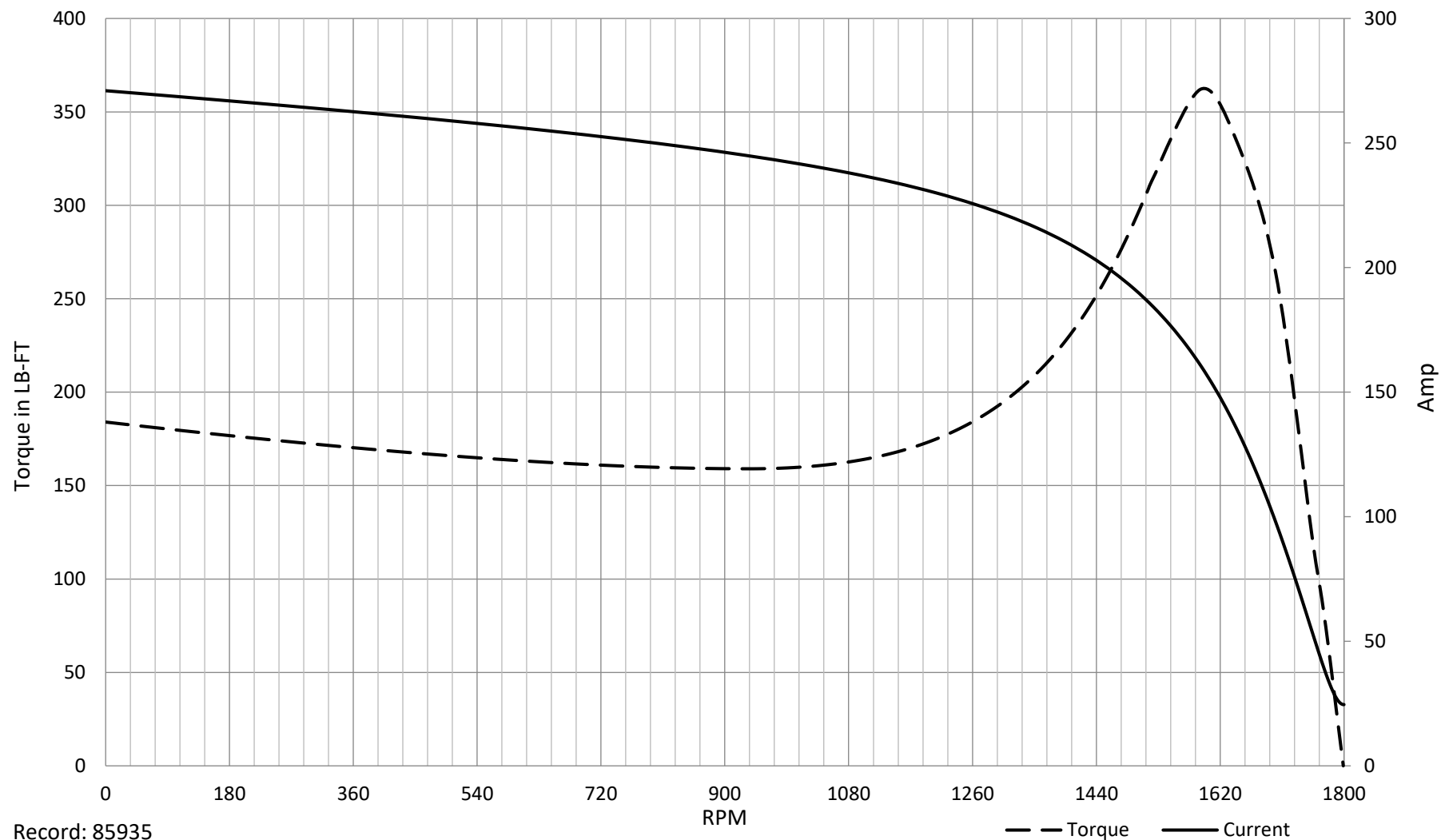
|                 |       |       |      |       |       |       |       |      |
|-----------------|-------|-------|------|-------|-------|-------|-------|------|
| % of Rated Load | NL    | 25    | 50   | 75    | 100   | 125   | 150   | SF   |
| Power Factor    | 3     | 41    | 65   | 75    | 80    | 82    | 81    | 81   |
| Efficiency      | 0     | 90.4  | 93.2 | 93.5  | 93    | 92.1  | 91    | 92.5 |
| Speed           | 1799  | 1789  | 1779 | 1768  | 1755  | 1741  | 1726  | 1747 |
| Line amperes    | 22.48 | 25.15 | 31.2 | 40.07 | 50.28 | 62.12 | 75.57 | 57.4 |

# SPEED TORQUE / SPEED CURRENT CURVES

**BALDOR • RELIANCE**

09WGA0212

40HP 460V 60HZ



Record: 85935