

|            |         |   |   |       |    |        |
|------------|---------|---|---|-------|----|--------|
| NP VOLTS   | 230/460 | Base Volt<br>460<br>NL AMPS<br>13.10<br>Slip (HZ)<br>1.08<br>WK <sup>2</sup> (lb-ft <sup>2</sup> )<br>6.610 | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) |       |    |        |
| NP AMPS    | 54/27   |   | R1  | 0.225 | X1 | 0.891  |
| HP         | 20      |   | R2  | 0.140 | X2 | 1.090  |
| BASE SPEED | 1178    |   |   |       | XM | 17.900 |
| PHASE/HZ   | 3/60    |   |   |       |    |        |

### Rated Full Load Data

|              | RPM    | HP    | Torque | Volts | Freq-Hz | Amps |
|--------------|--------|-------|--------|-------|---------|------|
| Base Speed   | 1178.3 | 20.2  | 90.1   | 460   | 60      | 26.9 |
| Max Speed    | 1767   | 20.2  | 60.0   | 460   | 90      | 24.2 |
| CT Min Speed | 1.1783 | 0.020 | 90.1   | 0.46  | 0.06    | 26.9 |

### Load Performance at Base Speed

|           | RPM    | HP   | Torque | Volts | Freq-Hz | Amps |
|-----------|--------|------|--------|-------|---------|------|
| No Load   | 1198.8 | 0.0  | 0.0    | 460   | 60      | 13.1 |
| 1/4       | 1194.6 | 5.1  | 22.2   | 460   | 60      | 14.3 |
| 1/2       | 1189.5 | 10.1 | 44.6   | 460   | 60      | 17.5 |
| 3/4       | 1184.1 | 15.1 | 66.8   | 460   | 60      | 21.9 |
| Full Load | 1178.3 | 20.2 | 90.1   | 460   | 60      | 26.9 |
| O/L       | 1159   | 40.4 | 183.0  | 460   | 60      | 51.5 |

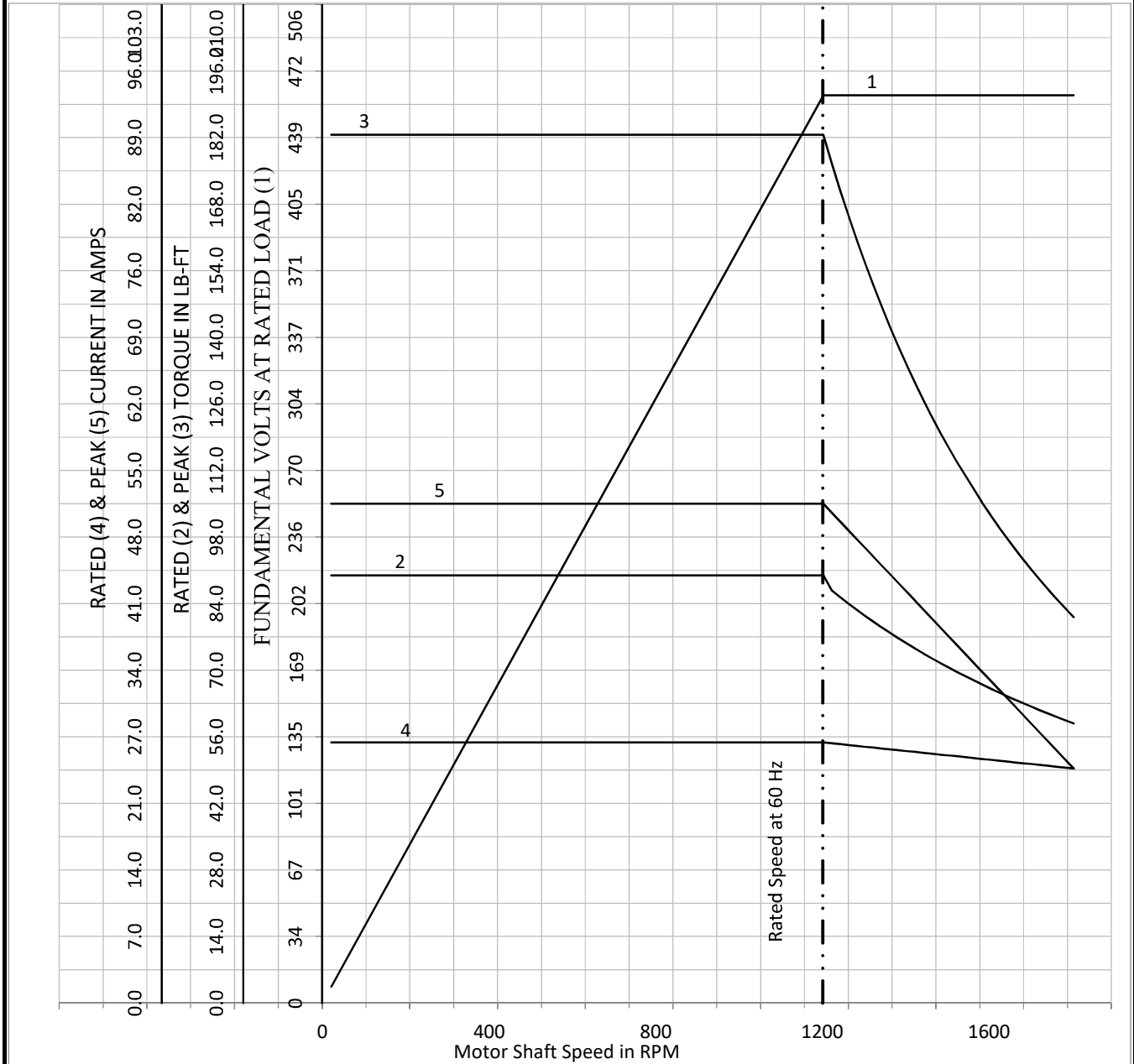
| Blower Data | Volts | Ph/Hz | FL Amps | LR Amps | Frame | CFM |
|-------------|-------|-------|---------|---------|-------|-----|
|             |       |       |         |         |       |     |

Remarks: Calculated Data

|                          |        |           |   |                 |
|--------------------------|--------|-----------|---|-----------------|
| <b>BALDOR • RELIANCE</b> | DR BY  | USBRRAN1  | <b>A-C MOTOR<br/>PERFORMANCE<br/>CURVES</b> | <b>10WGY730</b> |
|                          | CK BY  | CD        |   |                 |
|                          | APP BY | USBRRAN1  |   |                 |
|                          | DATE   | 11/1/2024 |   |                 |
|                          |        |           |   | Record: 66239   |

|            |            |                                       |       |   |       |       |        |
|------------|------------|---------------------------------------|-------|---|-------|-------|--------|
| NP VOLTS   | 230/460    | Base Volt                             | 460   | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) |       |       |        |
| NP AMPS    | 54/27      |                                       | R1    | 0.225   | X1    | 0.891 |        |
| HP         | 20         | NL AMPS                               | 13.10 | R2  | 0.140 | X2    | 1.090  |
| BASE SPEED | 1178.30005 | Slip (HZ)                             | 1.08  |   |       | XM    | 17.900 |
| PHASE/HZ   | 3/60       | WK <sup>2</sup> (lb-ft <sup>2</sup> ) | 6.610 |   |       |       |        |

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

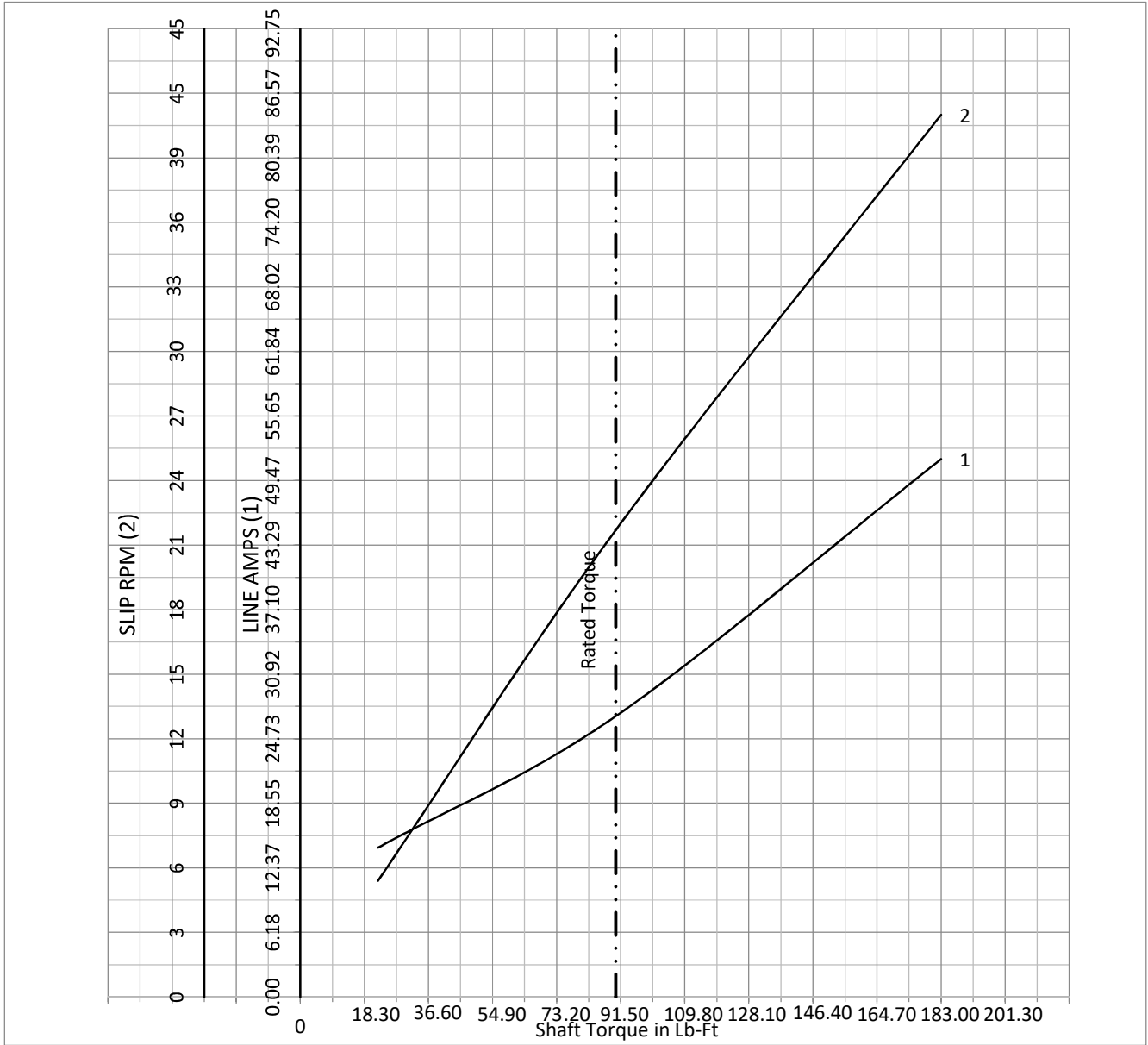


DR BY USBRRAN1  
 CK BY CD  
 APP BY USBRRAN1  
 DATE 11/1/2024

**A-C MOTOR** **10WGY730**  
**PERFORMANCE**  
**CURVES**  
 Record: 66239

|            |             |                           |       |   |       |    |        |
|------------|-------------|---------------------------|-------|---|-------|----|--------|
| NP VOLTS   | 230/460     | 0                         | 0     | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) |       |    |        |
| NP AMPS    | 54/27       | Base Volt                 | 460   | R1  | 0.225 | X1 | 0.891  |
| HP         | 20          | NL AMPS                   | 13.10 | R2  | 0.140 | X2 | 1.090  |
| BASE SPEED | 1178.300049 | Slip (HZ)                 | 1.08  |   |       | XM | 17.900 |
| PHASE/HZ   | 3/60        | WK2 (lb-ft <sup>2</sup> ) | 6.610 |   |       |    |        |

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only



DR BY USBRRAN1  
 CK BY CD  
 APP BY USBRRAN1  
 DATE 11/1/2024

**A-C MOTOR  
 PERFORMANCE  
 CURVES**

**10WGY730**

Record: 66239