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# Customer information packet

## VXM18522T

5//3HP, 3470//2870RPM, 3PH, 60//50HZ, 184TC

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

|                                |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                              |
| Frame                          | 184TC                                                                             |
| Frame Material                 | Steel                                                                             |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                              |
| Haz Area Class and Group       | CLI GP D; CLII GP F,G                                                             |
| Haz Area Division              | Division I                                                                        |
| Motor Letter Type              | Three Phase                                                                       |
| Output @ Frequency             | 5.000 HP @ 60 HZ<br>3.000 HP @ 50 HZ                                              |
| Phase                          | 3                                                                                 |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                                                  |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>380.0 V @ 50 HZ          |
| Agency Approvals               | UL<br>CSA EEV                                                                     |
| Ambient Temperature            | 40 °C                                                                             |
| Auxiliary Box                  | NO AUXILLARY BOX                                                                  |
| Auxiliary Box Lead Termination | None                                                                              |
| Base Indicator                 | No Mounting                                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                                           |
| Blower                         | None                                                                              |
| Constant Torque Speed Range    | 6                                                                                 |
| Current @ Voltage              | 11.200 A @ 230.0 V<br>4.200 A @ 380.0 V<br>5.600 A @ 460.0 V<br>8.400 A @ 190.0 V |
| Design Code                    | A                                                                                 |
| Drip Cover                     | No Drip Cover                                                                     |
| Duty Rating                    | CONT                                                                              |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGT860   |
| Layout       | 36LYQ330   |
| Eff. date    | 10-16-2023 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 03-24-2021 |

|                               |                            |
|-------------------------------|----------------------------|
| Efficiency @ 100% Load        | 89.5 %                     |
| Electrically Isolated Bearing | Not Electrically Isolated  |
| Feedback Device               | NO FEEDBACK                |
| Haz Area Temp Code            | T3C                        |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 4.2 a                      |
| Insulation Class              | F                          |
| Inverter Code                 | Inverter Duty              |
| IP Rating                     | NONE                       |
| KVA Code                      | L                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 5400 rpm                   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3634M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 2                          |
| Overall Length                | 18.86 IN                   |
| Power Factor                  | 94                         |
| Product Family                | General Purpose            |
| Pulley Face Code              | C-Face                     |
| Rodent Screen                 | None                       |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 1.125 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Speed                         | 3470 rpm                   |
| Speed Code                    | Single Speed               |
| Starting Method               | Direct on line             |
| Thermal Device - Bearing      | None                       |
| Thermal Device - Winding      | Normally Closed Thermostat |
| Vibration Sensor Indicator    | No Vibration Sensor        |
| Winding Thermal 1             | None                       |

|                   |      |
|-------------------|------|
| Winding Thermal 2 | None |
|-------------------|------|

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## Nameplate

| NP0887XPSLEV |                        |        |   |              |         |            |      |          |    |  |  |
|--------------|------------------------|--------|---|--------------|---------|------------|------|----------|----|--|--|
| NO.          |                        |        |   |              |         | CC         | 010A |          |    |  |  |
| S/N          |                        |        |   |              |         | TEMP CODE  |      | T3C      |    |  |  |
| SPEC.        | 36-0000-0475           |        |   |              |         | INV.TYPE   |      | PWM      |    |  |  |
| CAT.NO.      | VXM18522T              |        |   |              |         | C HP FR    | 60   | C HP TO  | 90 |  |  |
| HP           | 5//3                   |        |   |              |         | CT HZ FROM | 6    | CT HZ TO | 60 |  |  |
| VOLTS        | 230/460//190/380       |        |   |              |         | VT HZ FROM | 6    | VT HZ TO | 60 |  |  |
| AMPS         | 11.2/5.6//8.4/4.2      |        |   |              | MAG CUR | 3.2/1.6    |      |          |    |  |  |
| RPM          | 3470//2870             |        |   |              | MX RPM  | 5400       |      |          |    |  |  |
| HZ           | 60//50                 | PH     | 3 | CL           | F       | NOM.EFF.   | 89.5 |          |    |  |  |
| SER.F.       | 1.00                   | DES    | A | SL HZ        | 2.2     | WK2        | 0.15 |          |    |  |  |
| FRAME        | 184TC                  | RATING |   | 40C AMB-CONT |         |            |      |          |    |  |  |
|              | NEMA MG-1 PART 5, IP54 |        |   |              |         |            |      |          |    |  |  |
|              | 1.15 SF ON SINE WAVE   |        |   |              |         |            |      |          |    |  |  |
|              |                        |        |   |              |         |            |      |          |    |  |  |

**AC Induction Motor Performance Data**

Record # 73675

Typical performance - not guaranteed values

| Winding: 36WGT860-R067 |        |                   | Type: 3634M                              |                     | Enclosure: XPFC           |            |              |
|------------------------|--------|-------------------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |        |                   | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |        | 5//3              | Full Load Torque                         |                     | 7.66 LB-FT                |            |              |
| Volts                  |        | 230/460//190/380  | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |        | 11.2/5.6//8.4/4.2 | Breakdown Torque                         |                     | 41.6 LB-FT                |            |              |
| R.P.M.                 |        | 3470//2870        | Pull-up Torque                           |                     | 26.2 LB-FT                |            |              |
| Hz                     | 60//50 | Phase             | 3                                        | Locked-rotor Torque |                           | 30.5 LB-FT |              |
| NEMA Design Code       |        | A                 | KVA Code                                 | L                   | Starting Current          |            | 59.3 A       |
| Service Factor (S.F.)  |        |                   | 1                                        | No-load Current     |                           | 1.55 A     |              |
| NEMA Nom. Eff.         |        | 89.5              | Power Factor                             | 94                  | Line-line Res. @ 25°C     |            | 2.2 Ω        |
| Rating - Duty          |        | 40C               | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 59°C         |
|                        |        |                   |                                          |                     | Locked-rotor Power Factor |            | 42.9         |
|                        |        |                   |                                          |                     | Rotor inertia             |            | 0.152 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 65   | 83   | 90   | 94   | 95   | 95   |
| Efficiency      | 87.4 | 90.6 | 90.8 | 90.5 | 88.9 | 87.1 |
| Speed           | 3567 | 3536 | 3503 | 3469 | 3431 | 3389 |
| Line amperes    | 2.1  | 3.14 | 4.37 | 5.56 | 6.98 | 8.46 |

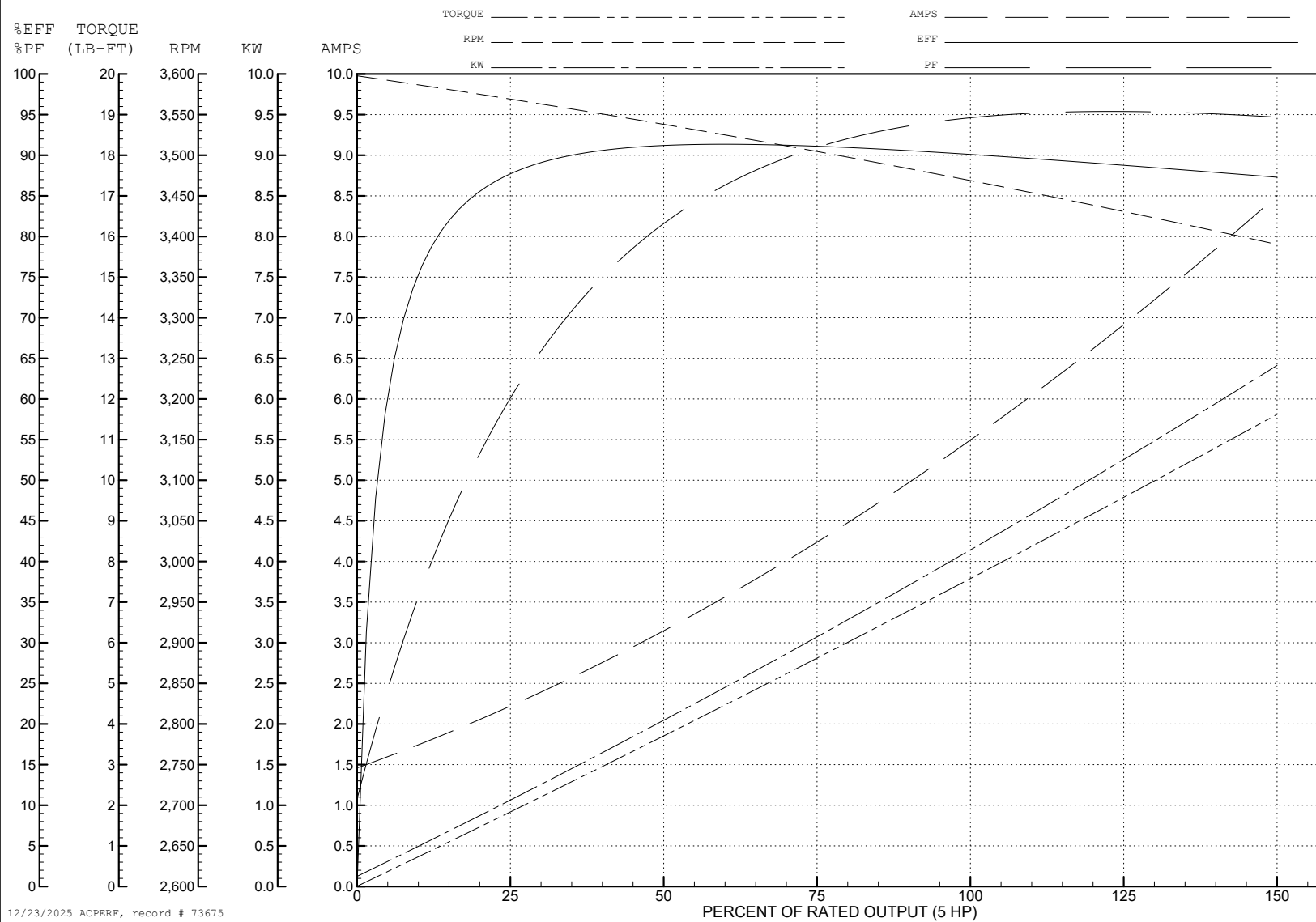
ABB Motors and Mechanical Inc.

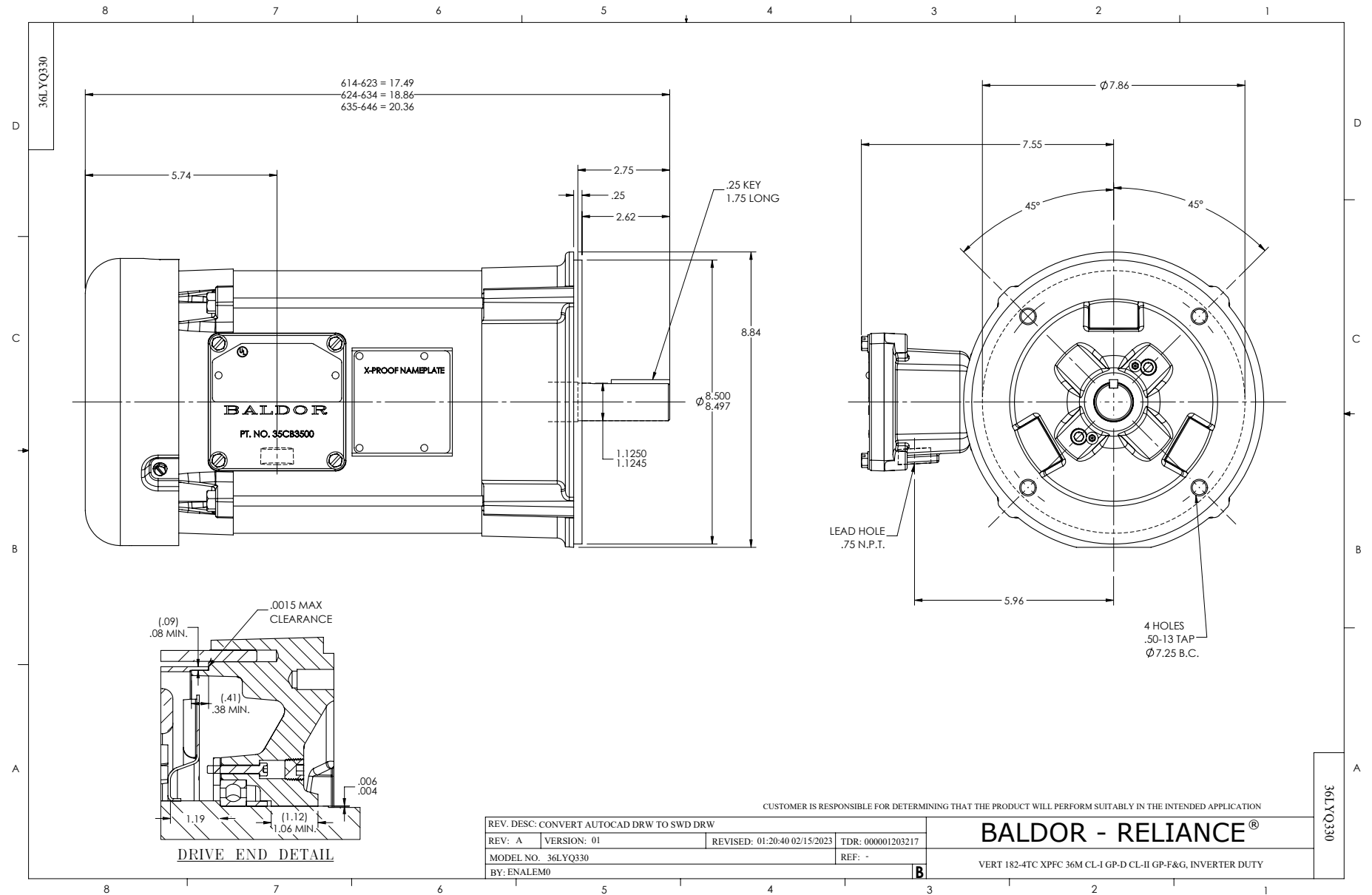
WINDING # 36WGT860

Typical performance - not guaranteed values.

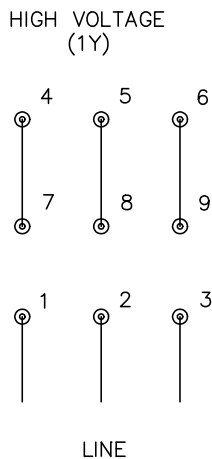
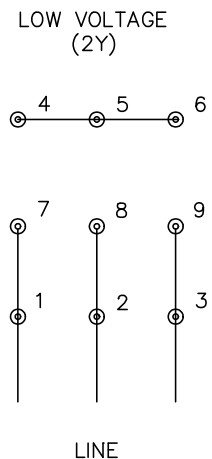
5 HP 3 PH 60 HZ 3469 RPM 460 V 3634M

TORQUES (LB-FT): PO=41.6 PU=26.2 LR=30.5 LRA=59.3





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005