



---

# Customer information packet

## ZDNM3669T

2HP, 1760RPM, 3PH, 60HZ, 182TC, 0624M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TENV                                   |
| Frame                          | 182TC                                  |
| Frame Material                 | Iron                                   |
| Frequency                      | 60.00 Hz                               |
| Haz Area Class and Group       | None                                   |
| Haz Area Division              | Not Applicable                         |
| Motor Letter Type              | Three Phase                            |
| Output @ Frequency             | 2.000 HP @ 60 HZ                       |
| Phase                          | 3                                      |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| Agency Approvals               | UR<br>CSA                              |
| Ambient Temperature            | 40 °C                                  |
| Auxiliary Box                  | NO AUXILLARY BOX                       |
| Auxiliary Box Lead Termination | None                                   |
| Base Indicator                 | Rigid                                  |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                |
| Blower                         | None                                   |
| Current @ Voltage              | 3.000 A @ 460.0 V<br>6.000 A @ 230.0 V |
| Design Code                    | B                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 88.5 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | ENCODER                                |
| Front Face Code                | Encoder/Feedback Device                |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 3.0 a                                  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 06F550     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 06WGX813   |
| Layout       | 06LYF550   |
| Eff. date    | 09-30-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 07-21-2016 |

|                               |                            |
|-------------------------------|----------------------------|
| Insulation Class              | H                          |
| Inverter Code                 | Inverter Duty              |
| KVA Code                      | K                          |
| Lifting Lugs                  | Standard Lifting Lugs      |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 6000 rpm                   |
| Motor Lead Exit               | Ko Box                     |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 0624M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 17.21 IN                   |
| Power Factor                  | 71                         |
| Product Family                | General Purpose            |
| Pulley End Bearing Type       | Ball                       |
| Pulley Face Code              | C-Face                     |
| Pulley Shaft Indicator        | Standard                   |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS COMPLIANT             |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 1.125 IN                   |
| Shaft Extension Location      | Pulley End                 |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Shaft Slinger Indicator       | No Slinger                 |
| Speed                         | 1760 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

---

## Nameplate

| NP4539L        |              |  |      |            |           |      |       |     |     |      |
|----------------|--------------|--|------|------------|-----------|------|-------|-----|-----|------|
| CAT.NO.        | ZDNM3669T    |  |      |            |           |      |       |     |     |      |
| SPEC.          | 06F550X813Z1 |  |      |            |           |      |       |     |     |      |
| FRAME          | 182TC        |  |      | H.P.       |           | 2 TE |       |     |     |      |
| VOLTS          | 230/460      |  |      |            |           |      |       |     |     |      |
| MAG. CUR.      | 3.8/1.9      |  |      |            | F.L. AMPS |      |       | 6/3 |     |      |
| R.P.M.         | 1760         |  |      | R.P.M. MAX |           |      | 6000  |     |     |      |
| HZ.            | 60           |  | PH.  |            | 3         |      | CLASS |     | H   |      |
| SER.F.         | 1.00         |  | DES. |            | B         |      | SL HZ |     | 1.3 |      |
| NEMA NOM. EFF. | 88.5         |  | WK2  |            | 0.22      |      |       |     |     |      |
| BLWR V         |              |  | PH   |            |           |      | HZ    |     |     | AMPS |
| RATING         | 40C AMB-CONT |  |      |            |           |      |       |     |     |      |
| DE             | 6206         |  | ODE  |            | 6205      |      |       |     |     |      |
| CC             | 010A         |  | SN   |            |           |      |       |     |     |      |
|                | 1000:1 CT/VT |  |      |            |           |      |       |     |     |      |

|            |         |                                                   |       |    |       |    |         |
|------------|---------|---------------------------------------------------|-------|----|-------|----|---------|
| NP VOLTS   | 230/460 | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) |       |    |       |    |         |
| NP AMPS    | 45446   | Base Volt                                         | 460   | R1 | 3.320 | X1 | 6.760   |
| HP         | 2       | NL AMPS                                           | 1.85  | R2 | 1.870 | X2 | 5.300   |
| BASE SPEED | 1762    | Slip (HZ)                                         | 1.27  |    |       |    |         |
| PHASE/HZ   | 3/60    | WK <sup>2</sup> (lb-ft <sup>2</sup> )             | 0.223 |    |       | XM | 132.000 |

Rated Full Load Data

|              | RPM   | HP    | Torque | Volts | Freq-Hz | Amps |
|--------------|-------|-------|--------|-------|---------|------|
| Base Speed   | 1762  | 2.0   | 6.0    | 460   | 60      | 3.0  |
| Max Speed    | 2643  | 2.0   | 4.0    | 460   | 90      | 2.6  |
| CT Min Speed | 1.762 | 0.002 | 6.0    | 0.46  | 0.06    | 3.0  |

Load Performance at Base Speed

|           | RPM  | HP  | Torque | Volts | Freq-Hz | Amps |
|-----------|------|-----|--------|-------|---------|------|
| No Load   | 1796 | 0.0 | 0.0    | 460   | 60      | 1.9  |
| 1/4       | 1791 | 0.5 | 1.5    | 460   | 60      | 2.0  |
| 1/2       | 1782 | 1.0 | 2.9    | 460   | 60      | 2.2  |
| 3/4       | 1773 | 1.5 | 4.5    | 460   | 60      | 2.5  |
| Full Load | 1762 | 2.0 | 6.0    | 460   | 60      | 3.0  |
| O/L       | 1726 | 4.0 | 12.3   | 460   | 60      | 5.2  |

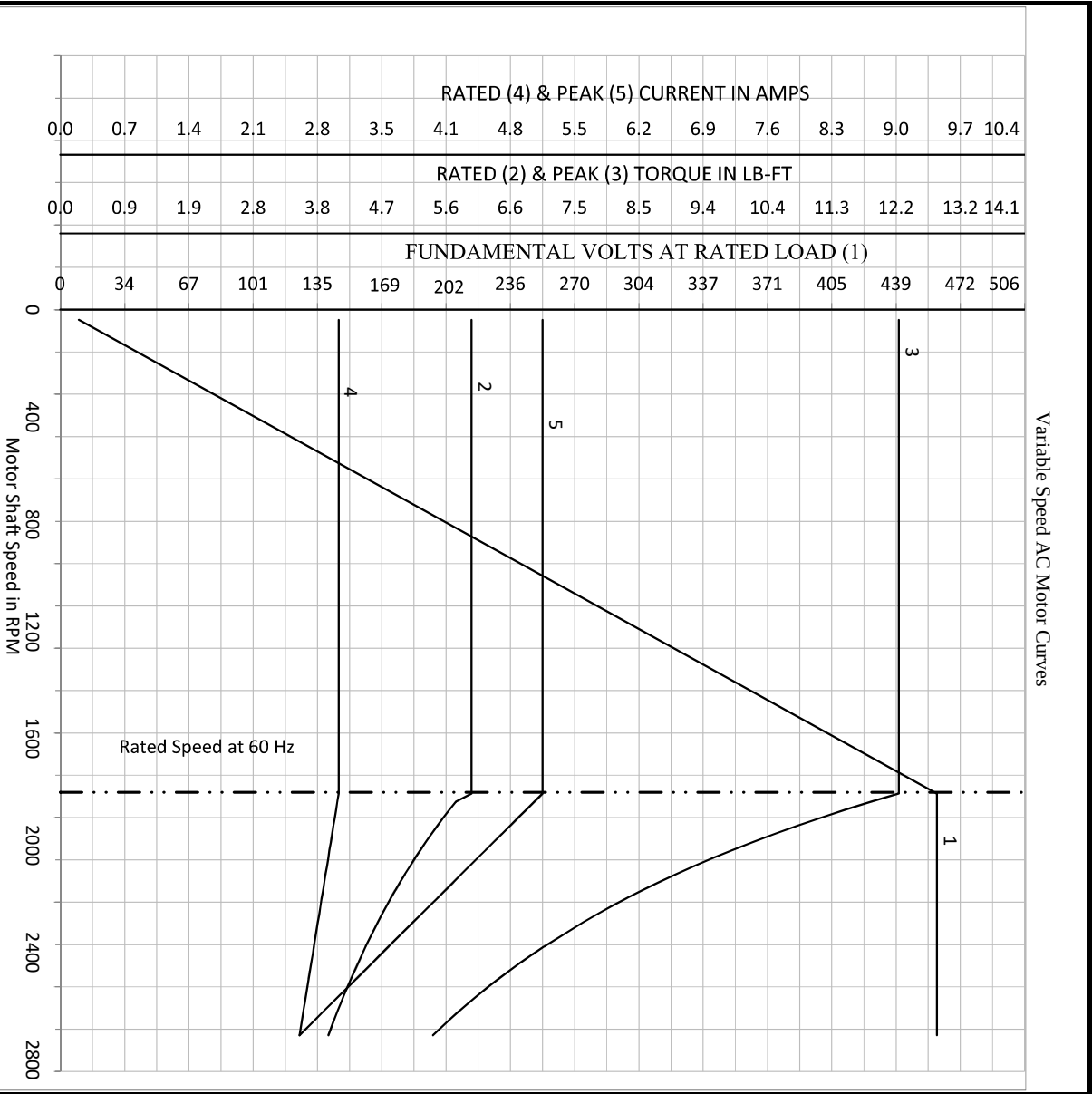
| Blower Data | Volts | Ph/Hz | FL Amps | L/R Amps | Frame | CFM |
|-------------|-------|-------|---------|----------|-------|-----|
|             |       |       |         |          |       |     |

Remarks: Calculated Data

|                 |  |  |  |               |  |          |
|-----------------|--|--|--|---------------|--|----------|
| DR BY USBRRANI  |  |  |  | A-C MOTOR     |  | 06WGx813 |
| CK BY CD        |  |  |  | PERFORMANCE   |  |          |
| APP BY USBRRANI |  |  |  | CURVES        |  |          |
| DATE 11/1/2024  |  |  |  | Record: 58281 |  |          |

BALDOR • RELIANCE

|            |         |                                       |       |                                                    |       |          |
|------------|---------|---------------------------------------|-------|----------------------------------------------------|-------|----------|
| NP VOLTS   | 230/460 | Base Volt                             | 460   | WYE CONN EQ. CKT OHMS PER PHASE (BASE RATING, 20C) |       |          |
| NP AMPS    | 45/46   | NL AMPS                               | 1.85  | R1                                                 | 3.320 | X1 6.760 |
| HP         | 2       | Slip (Hz)                             | 1.27  | R2                                                 | 1.870 | X2 5.300 |
| BASE SPEED | 1762    | WK <sup>2</sup> (lb-ft <sup>2</sup> ) | 0.223 |                                                    | XM    | 132.000  |
| PHASE/HZ   | 3/60    |                                       |       |                                                    |       |          |



Calculated Data  
Data Valid For Nameplate Speed Range only

**BALDOR • RELIANCE**

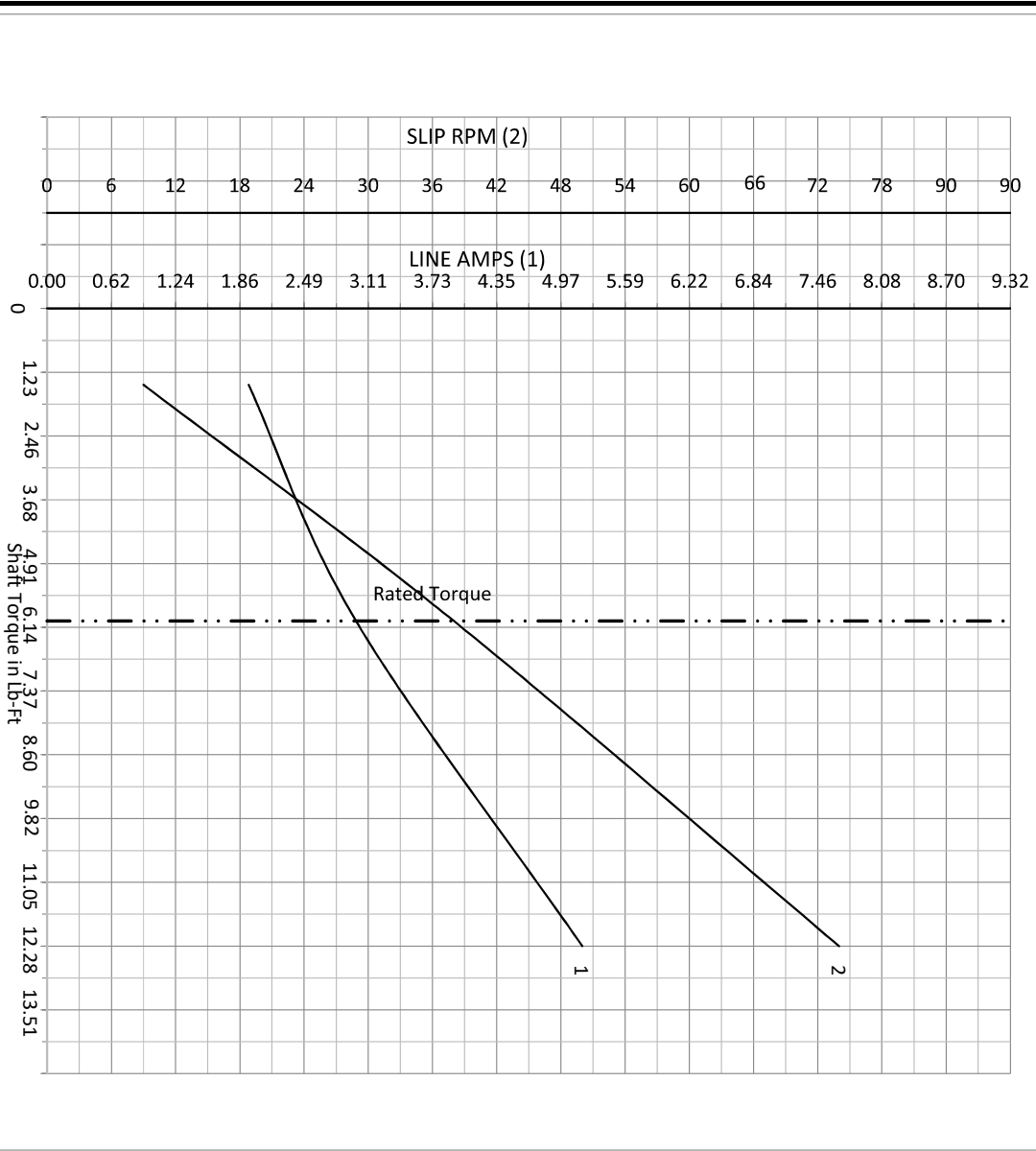
DR BY USBRRANI  
CK BY CD  
APP BY USBRRANI  
DATE 11/1/2024

**A-C MOTOR  
PERFORMANCE  
CURVES**

**06WGX813**  
  
Record: 58281

|            |         |              |       |                                                      |       |    |       |
|------------|---------|--------------|-------|------------------------------------------------------|-------|----|-------|
| NP VOLTS   | 230/460 | 0            | 0     | WYE CONN. EQ. CKT. OHMS PER PHASE (BASE RATING, 20C) |       |    |       |
| NP AMPS    | 45.446  | Base Volt    | 460   | R1                                                   | 3.320 | X1 | 6.760 |
| HP         | 2       | NL AMPS      | 1.85  | R2                                                   | 1.870 | X2 | 5.300 |
| BASE SPEED | 1762    | Slip (HZ)    | 1.27  | XM                                                   |       |    |       |
| PHASE/HZ   | 3/60    | WK2 (lb-ft2) | 0.223 | 132.000                                              |       |    |       |

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data  
Data Valid For Nameplate Speed Range only



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

A-C MOTOR  
PERFORMANCE  
CURVES  
06WGx813  
Record: 58281



