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# Customer information packet

## ZDM2334T-5

60M 4P TEBC HOR 256TC T'STAT VECTOR

Class - None

Division - Not Applicable

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## Specifications

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TEBC                      |
| Frame                          | 256TC                     |
| 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             | 20.000 HP @ 60 HZ         |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 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                         | BLOWER                    |
| Current @ Voltage              | 19.200 A @ 575.0 V        |
| Design Code                    | A                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 93.0 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | ENCODER                   |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 19.2 a                    |
| Insulation Class               | H                         |
| Inverter Code                  | Inverter Duty             |
| KVA Code                       | J                         |

## Part detail

|              |            |
|--------------|------------|
| Revision     | H          |
| Type         | AC         |
| Mech. spec.  | 09T110     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 09WGT507   |
| Layout       | 09LYT110   |
| Eff. date    | 08-28-2025 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#12       |
| Proprietary  | False      |
| Created date | 03-13-2019 |

| Lifting Lugs                  | Standard Lifting Lugs      |
|-------------------------------|----------------------------|
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 2700 rpm                   |
| Motor Lead Quantity/Wire Size | 3 @ 12 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 0960M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 29.41 IN                   |
| Power Factor                  | 83                         |
| 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                | 1.625 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Shaft Slinger Indicator       | Shaft Slinger              |
| Speed                         | 1770 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

| NP1168L      |                      |  |         |      |       |       |   |  |  |
|--------------|----------------------|--|---------|------|-------|-------|---|--|--|
| CAT NO       | ZDM2334T-5           |  |         |      |       |       |   |  |  |
| SPEC.        | 09T110T507Z1         |  |         |      |       |       |   |  |  |
| FRAME        | 256TC                |  |         | HP   | 20 TE |       |   |  |  |
| VOLTS        | 575                  |  |         |      |       |       |   |  |  |
| MAG CUR      | 8.3                  |  |         |      | FLA   | 19.2  |   |  |  |
| RPM          | 1770                 |  | RPM MAX |      |       | 2700  |   |  |  |
| HZ           | 60                   |  | PH      | 3    |       | CLASS | H |  |  |
| SER.F.       | 1.00                 |  | DES     | A    |       | SL HZ | 1 |  |  |
| NEMA-NOM-EFF | 93                   |  | WK2     | 2.62 |       |       |   |  |  |
| BLWR V       | PH                   |  |         | HZ   |       | A     |   |  |  |
| RATING       | 40C AMB-CONT         |  |         |      |       |       |   |  |  |
| DE BRG       | 6309                 |  | ODE BRG |      |       | 6208  |   |  |  |
| CC           | 010A                 |  | SER.NO  |      |       |       |   |  |  |
|              | 1000:1 CT, 1000:1 VT |  |         |      |       |       |   |  |  |

|            |       |              |       |                                                   |       |    |        |
|------------|-------|--------------|-------|---------------------------------------------------|-------|----|--------|
| NP VOLTS   | 575   | MAX SAFE RPM | 2700  | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 200) |       |    |        |
| NP AMPS    | 19.2  | Base Volt    | 575   | R1                                                | 0.264 | X1 | 1.370  |
| HP         | 20 HP | NL AMPS      | 8.28  | R2                                                | 0.249 | X2 | 1.820  |
| BASE SPEED | 1772  | Slips(Hz)    | 0.93  |                                                   |       | XM | 47.200 |
| PHASE/HZ   | 3/60  | Wk2 (lb-ft²) | 2.650 |                                                   |       |    |        |

Rated Full Load Data

|            | RPM  | HP   | Torque | Volts | Freq-Hz | Amps |
|------------|------|------|--------|-------|---------|------|
| Base Speed | 1772 | 20.0 | 59.3   | 575   | 60      | 19.2 |
| Max Speed  | 2657 | 20.0 | 39.6   | 575   | 90      | 18.5 |
| Min Speed  | 0    | 0.0  | 59.3   | 22.51 | 0.93    | 19.2 |

Load Performance at Base Speed

|           | RPM  | HP   | Torque | Volts | Freq-Hz | Amps |
|-----------|------|------|--------|-------|---------|------|
| No Load   | 1799 | 0.0  | 0.0    | 575   | 60      | 8.3  |
| 1/4       | 1793 | 5.0  | 14.7   | 575   | 60      | 9.4  |
| 1/2       | 1786 | 10.0 | 29.5   | 575   | 60      | 12.0 |
| 3/4       | 1779 | 15.0 | 44.3   | 575   | 60      | 15.3 |
| Full Load | 1772 | 20.0 | 59.3   | 575   | 60      | 19.2 |
| O/L       | 1741 | 40.1 | 121.0  | 575   | 60      | 39.1 |

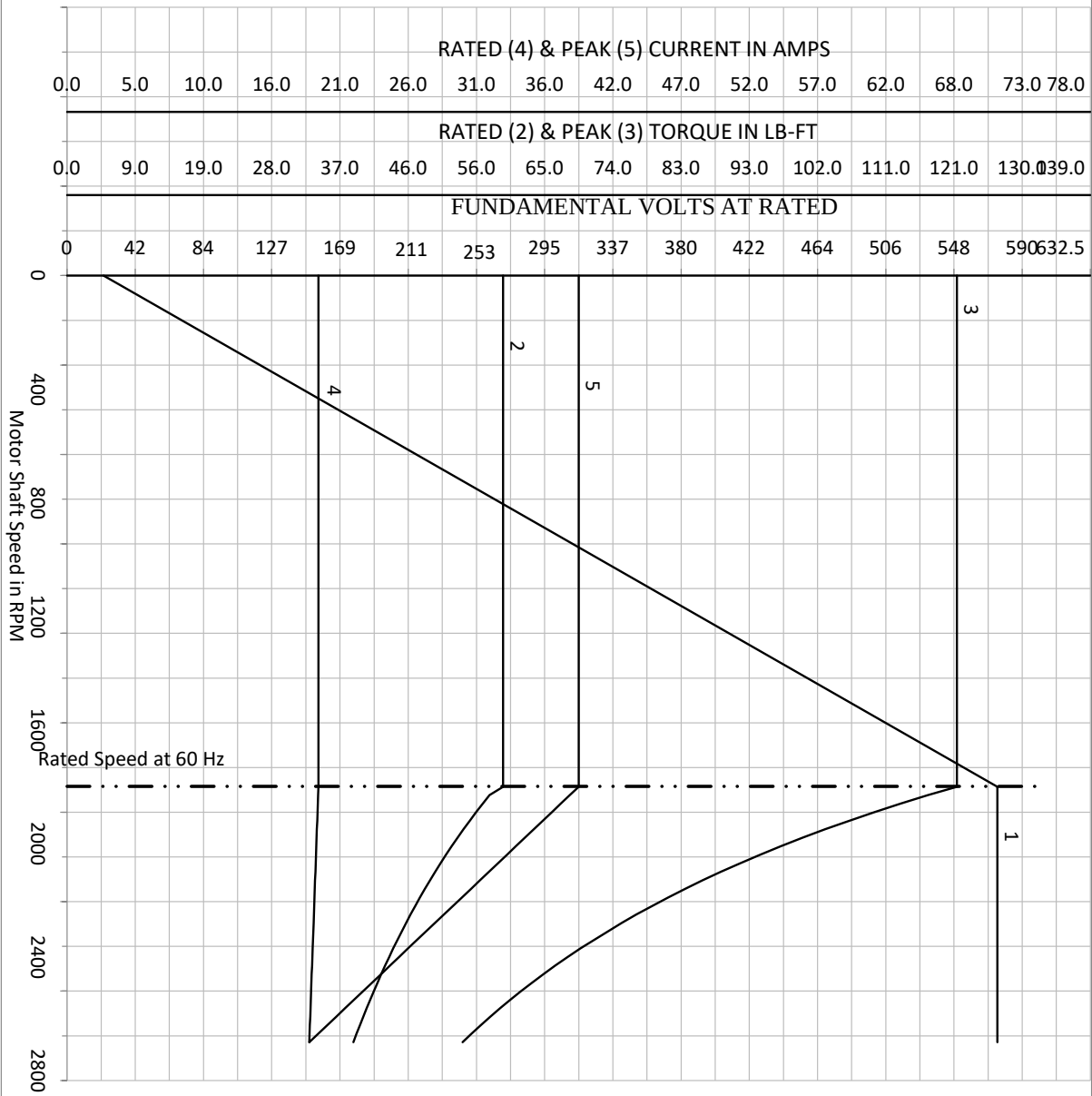
| Blower Data | Volts | Ph/Hz | FL Amps | LR Amps | Frame | CFM |
|-------------|-------|-------|---------|---------|-------|-----|
|             |       |       |         |         |       |     |

Remarks: Calculated Data  
Vector PWM Inverter Duty

|                          |  |  |                 |             |               |
|--------------------------|--|--|-----------------|-------------|---------------|
| <b>BALDOR • RELIANCE</b> |  |  | DR BY USBRRANI  | A-C MOTOR   | 09WGT507      |
|                          |  |  | CK BY           | PERFORMANCE |               |
|                          |  |  | APP BY USBRRANI | CURVES      | Record: 85523 |
|                          |  |  | DATE 11/19/2020 |             |               |

|            |       |              |       |                                                   |       |    |        |
|------------|-------|--------------|-------|---------------------------------------------------|-------|----|--------|
| NP VOLTS   | 575   | MAX SAFE RPM | 2700  | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 200) |       |    |        |
| NP AMPS    | 19.2  | Base Volt    | 575   | R1                                                | 0.264 | X1 | 1.370  |
| HP         | 20 HP | NL AMPS      | 8.28  | R2                                                | 0.249 | X2 | 1.820  |
| BASE SPEED | 1772  | Slips(HZ)    | 0.93  |                                                   |       | XM | 47.200 |
| PHASE/HZ   | 3/60  | WK2 (lb-ft²) | 2.650 |                                                   |       |    |        |

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data  
Data Valid For Nameplate Speed Range only

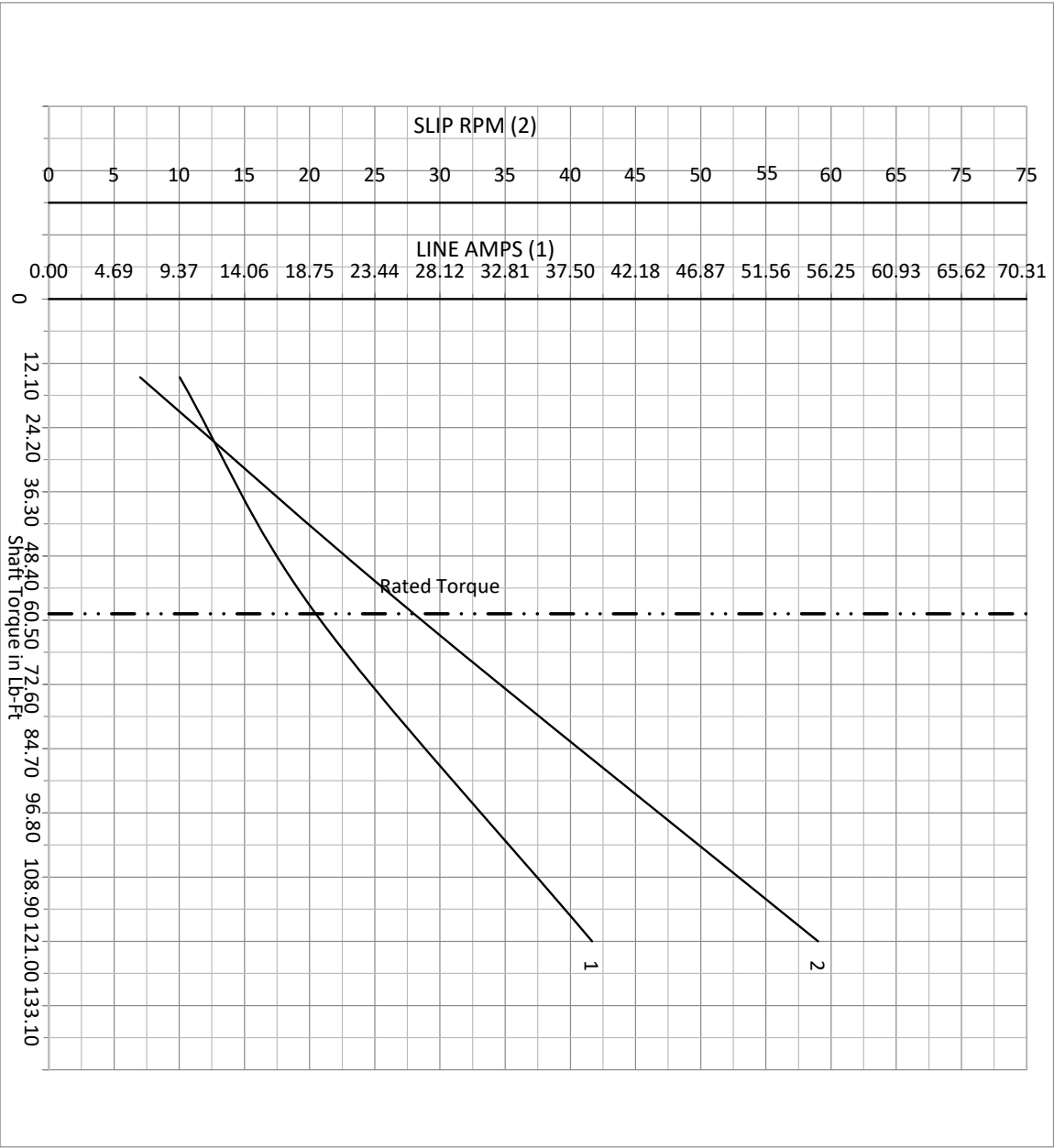
**BALDOR • RELIANCE**

DR BY USBRRANI  
CK BY \_\_\_\_\_  
APP BY USBRRANI  
DATE 11/19/2020

**A-C MOTOR PERFORMANCE CURVES**  
**09WGT507**  
Record: 85523

|            |       |              |       |                                                   |       |           |
|------------|-------|--------------|-------|---------------------------------------------------|-------|-----------|
| NP VOLTS   | 575   | MAX SAFE RPM | 2700  | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) |       |           |
| NP AMPS    | 19.2  | Base Volt    | 575   | R1                                                | 0.264 | X1 1.370  |
| HP         | 20 HP | NL AMPS      | 8.28  | R2                                                | 0.249 | X2 1.820  |
| BASE SPEED | 1772  | Slips(HZ)    | 0.93  |                                                   |       | XM 47.200 |
| PHASE/HZ   | 3/60  | WK2 (lb-ft²) | 2.650 |                                                   |       |           |

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data

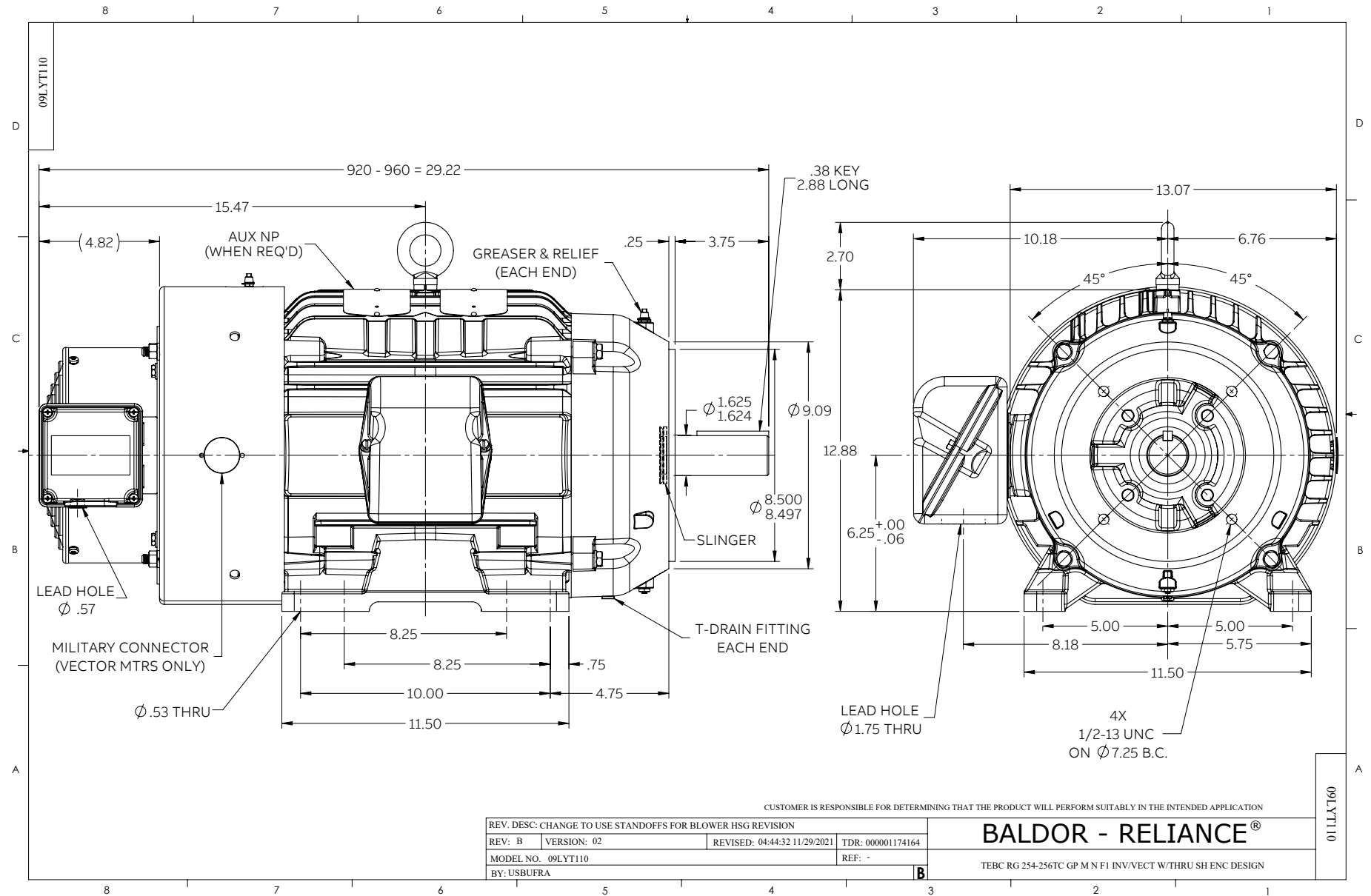
Data Valid For Nameplate Speed Range only

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DR BY USBRRANI  
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APP BY USBRRANI  
DATE 11/19/2020

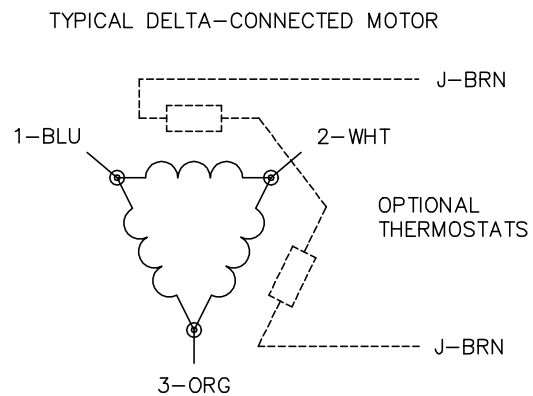
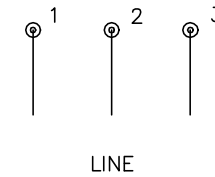
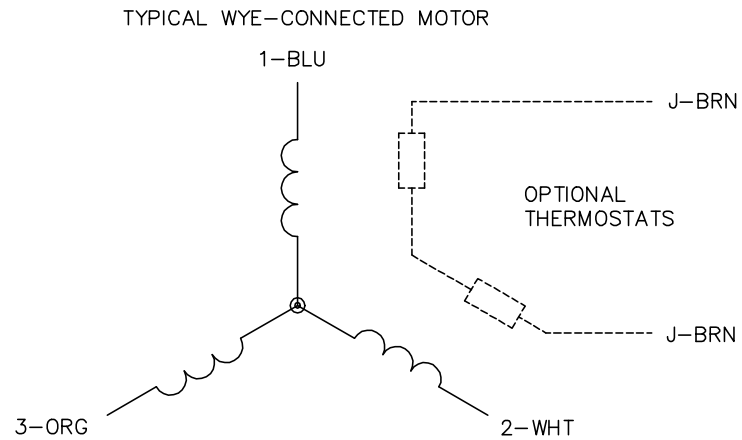
**A-C MOTOR  
PERFORMANCE  
CURVES**

**09WGT507**  
  
Record: 85523





CD0006



## NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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