ABB BALDOR RELIANCE

# Customer information packet

ZDM2334T

60M 4P TEBC HOR 256TC T'STATS VECTOR DR
Class - None
Division - Not Applicable

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11/18/2026 10:41:34 AM

## 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** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UR |
| **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** | 24.000 A @ 460.0 V |
| | 48.000 A @ 230.0 V |
| | 52.000 A @ 208.0 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** | 24.0 a |

## Part Detail

| | |
|---|---|
| **Revision** | G |
| **Type** | AC |
| **Mech. spec.** | 09T110 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 09WGT459 |
| **Layout** | 09LYT110 |
| **Eff. date** | 08-28-2025 |
| **CD Diagram** | CD0180 |
| **Poles** | 04 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 03-13-2019 |

| | |
|---|---|
| **Insulation Class** | H |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 10 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 | | | | | | |
| **SPEC.** | 09T110T459Z1 | | | | | | |
| **FRAME** | 256TC | | **HP** | 20 TE | | | |
| **VOLTS** | 230/460 | | | | | | |
| **MAG CUR** | 20.8/10.4 | | | **FLA** | 48/24 | | |
| **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 | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| INP AMPS | 48/24 | MAX SAFE RPM | 2700 | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) | | | |
| HP | 20 HP | Base Volt | 460 | R1 | 0.167 | X1 | 0.876 |
| BASE SPEED | 1772 | NL AMPS | 10.40 | R2 | 0.159 | X2 | 1.160 |
| PHASE/HZ | 3/60 | Slips(HZ) | 0.94 | | | XM | 30.000 |
| | | WK2 () | 0.000 | | | | |

## Rated Full Load Data

| | RPM | HP | Torque | Volts | Freq-Hz | Amps |
|---|---|---|---|---|---|---|
| Base Speed | 1771.9 | 20.0 | 59.3 | 460 | 60 | 24.0 |
| Max Speed | 2657 | 20.0 | 39.5 | 460 | 90 | 23.1 |
| Min Speed | 0 | 0.0 | 59.3 | 17.91 | 0.94 | 24.0 |

## Load Performance at Base Speed

| | RPM | HP | Torque | Volts | Freq-Hz | Amps |
|---|---|---|---|---|---|---|
| No Load | 1798.9 | 0.0 | 0.0 | 460 | 60 | 10.4 |
| 1/4 | 1793.2 | 5.0 | 14.7 | 460 | 60 | 11.8 |
| 1/2 | 1786.4 | 10.0 | 29.4 | 460 | 60 | 15.0 |
| 3/4 | 1779.1 | 15.0 | 44.3 | 460 | 60 | 19.2 |
| Full Load | 1771.9 | 20.0 | 59.3 | 460 | 60 | 24.0 |
| O/L | 1741 | 40.1 | 121.0 | 460 | 60 | 48.7 |

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

Remarks: Calculated Data
Vector PWM Inverter Duty

BALDOR
A MEMBER OF THE ABB GROUP

DR BY USBRRAN1
CK BY
APP BY USBRRAN1
DATE 11/27/2017

A-C MOTOR PERFORMANCE CURVES

09WGT459

Record: 67965

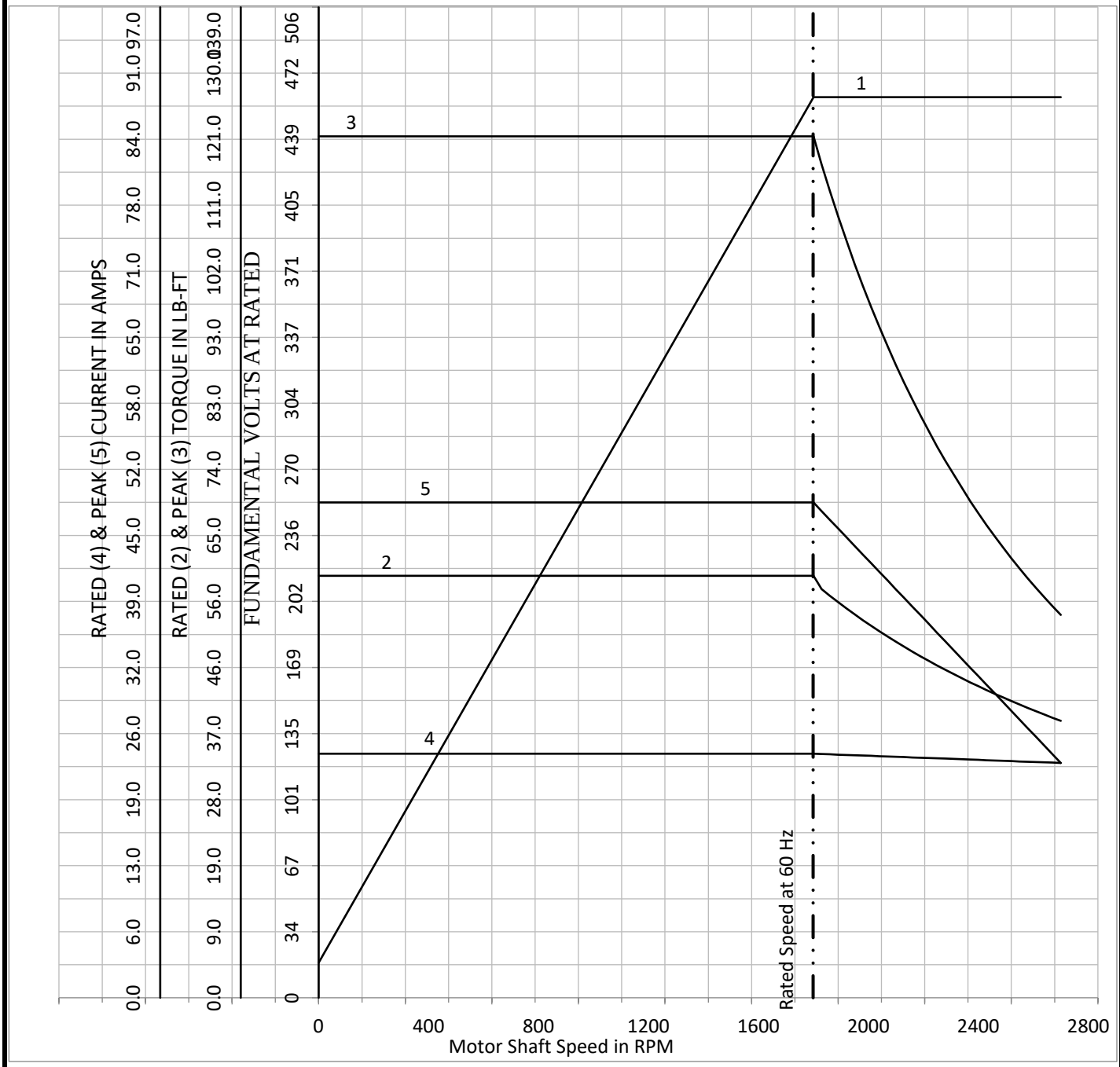
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ABB BALDOR RELIANCE II | CUSTOMER INFORMATION PACKET | | | MAX SAFE RPM | 2700 | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) | |
| | | | | Base Volt | 460 | R1 | 0.167 |
| | | | | NL AMPS | 10.40 | R2 | 0.159 |
| | | | | Slips(HZ) | 0.94 | | |
| | | | | WK2 () | 0.000 | | |

| | | | |
|---|---|---|---|
| | 208-230/460 | X1 | 0.876 |
| | 43/24 | | |
| HP | 20 HP | X2 | 1.160 |
| BASE SPEED | 1771.90002 | XM | 30.000 |
| PHASE/HZ | 3/60 | | |

ZDM2334T - 60M 4P TEBC HOR 256TC T'STATS VECTOR DR

Vector PWM Inverer Duty

Variable Speed AC Motor Curves




Calculated Data

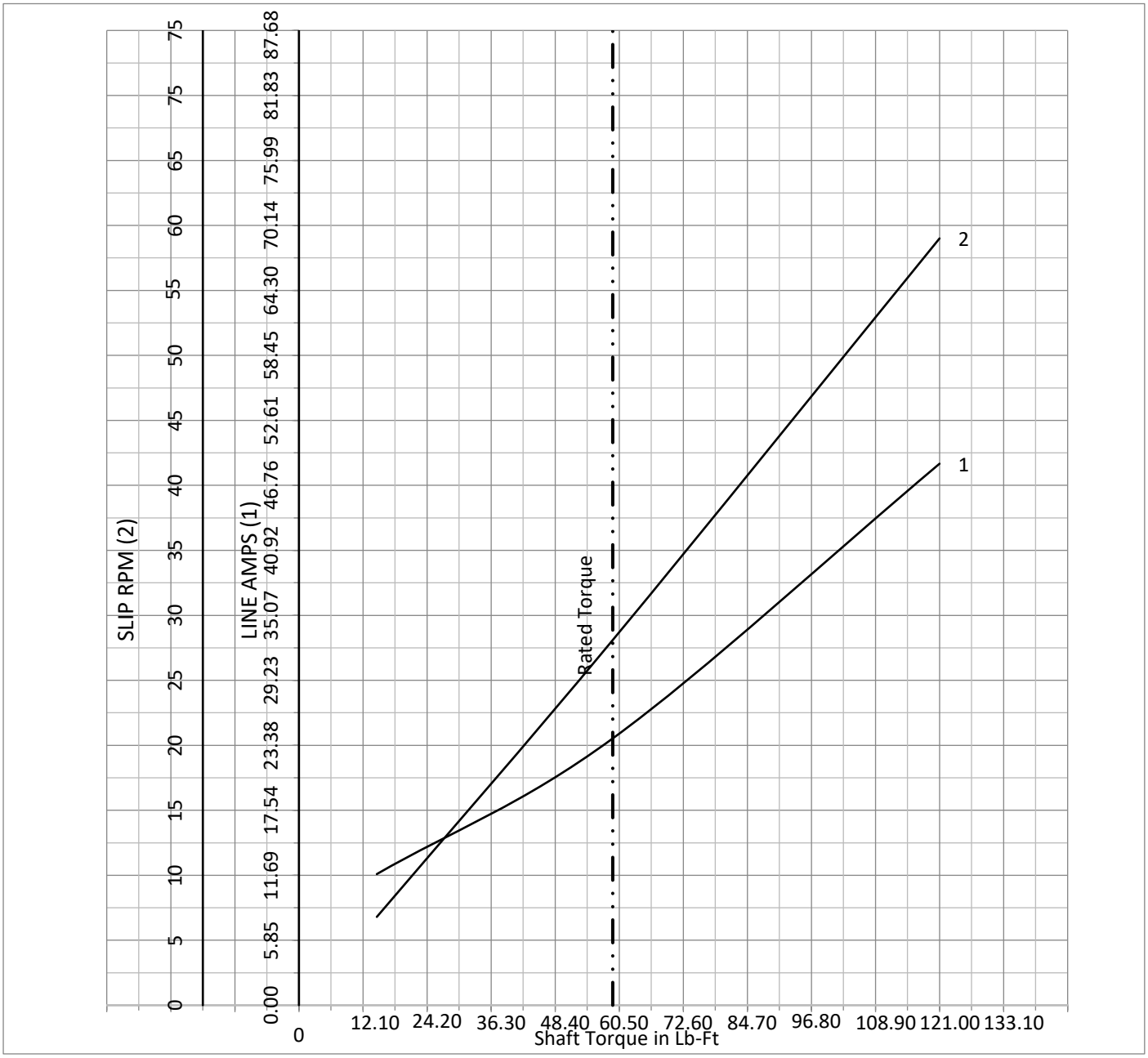
Data Valid For Nameplate Speed Range only

| | | | |
|---|---|---|---|
| BALDOR A MEMBER OF THE ABB GROUP | DR BY USBRRAN1<br>CK BY<br>APP BY USBRRAN1<br>DATE 11/27/2017 | A-C MOTOR PERFORMANCE CURVES | 09WGT459<br>Record: 67965 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VOLTS | 208/460 | MAX SAFE RPM | 2700 | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) | | | |
| FL AMPS | 43/24 | Base Volt | 460 | ZDM2334T - 60M 4P TEBC HOR 256TC T'STATS VECTOR DR | | | |
| HP | 20 HP | NL AMPS | 10.40 | R1 | 0.167 | X1 | 0.876 |
| BASE SPEED | 1771.900024 | Slips(HZ) | 0.94 | R2 | 0.159 | X2 | 1.160 |
| PHASE/HZ | 3/60 | WK2 () | 0.000 | | | XM | 30.000 |

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves




Calculated Data

Data Valid For Nameplate Speed Range only

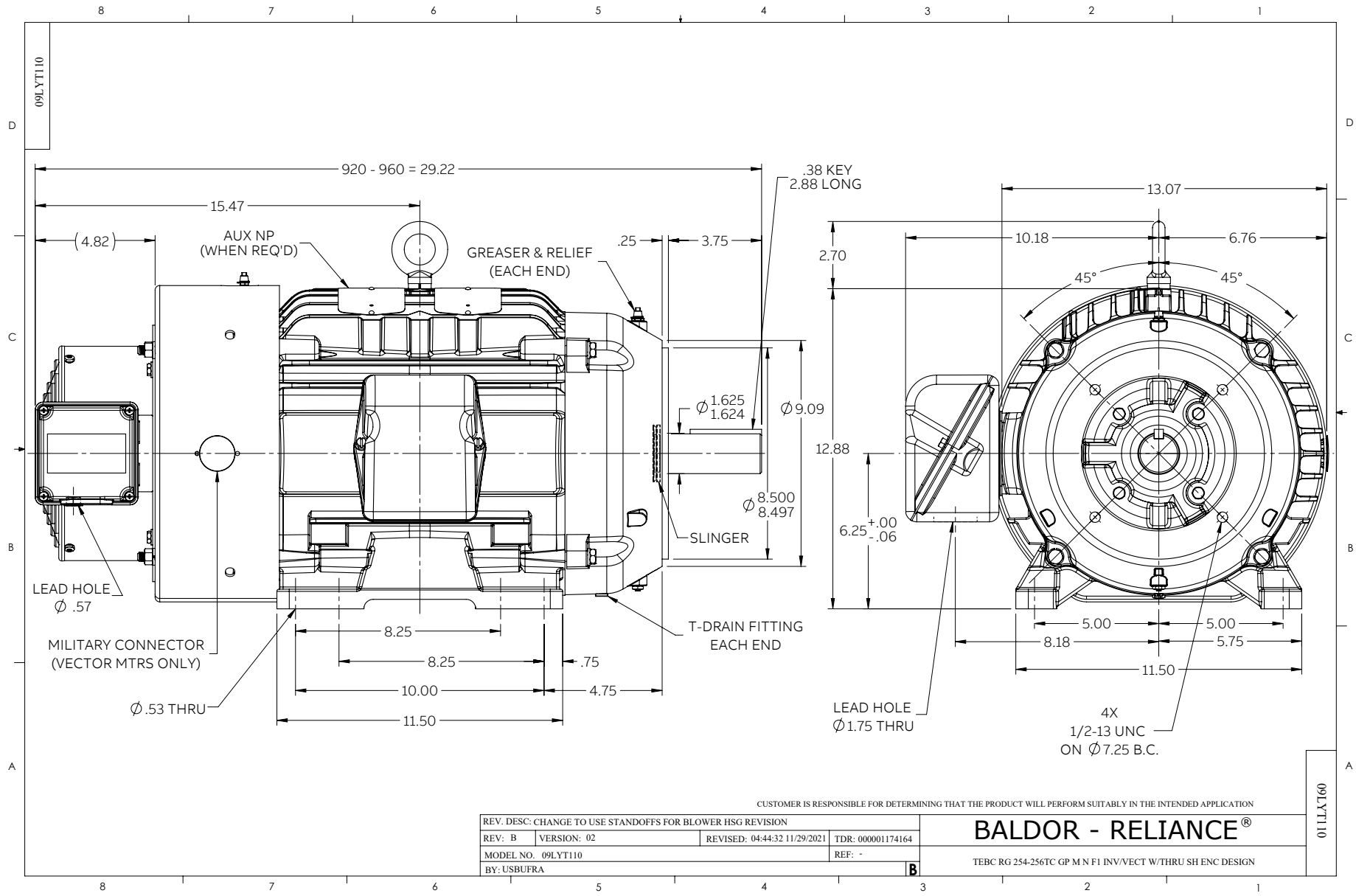
BALDOR
A MEMBER OF THE ABB GROUP

DR BY USBRRAN1
CK BY
APP BY USBRRAN1
DATE 11/27/2017

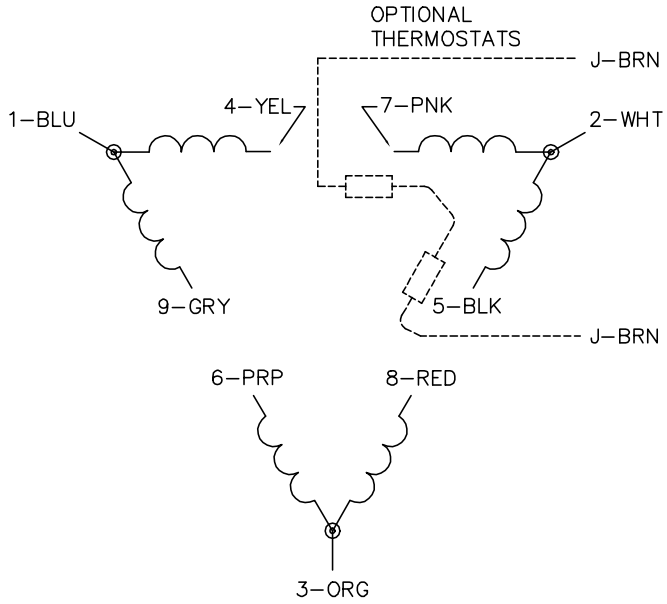
**A-C MOTOR PERFORMANCE CURVES**

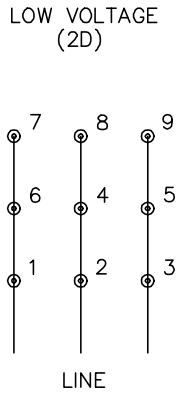
**09WGT459**

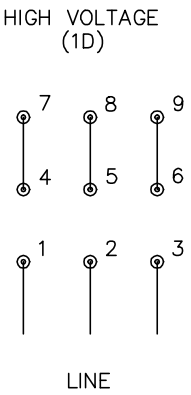
Record: 67965


09LYT110
920 - 960 = 29.22
15.47
4.82
AUX NP
(WHEN REQ'D)
GREASER & RELIEF
(EACH END)
.25
3.75
.38 KEY
2.88 LONG
Ø1.625
1.624
Ø9.09
Ø8.500
8.497
SLINGER
LEAD HOLE
Ø .57
MILITARY CONNECTOR
(VECTOR MTRS ONLY)
Ø.53 THRU
8.25
8.25
.75
10.00
4.75
11.50
T-DRAIN FITTING
EACH END
13.07
10.18
6.76
2.70
45°
45°
12.88
6.25 +.00 -.06
5.00
5.00
8.18
5.75
11.50
LEAD HOLE
Ø1.75 THRU
4X
1/2-13 UNC
ON Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE TO USE STANDOFFS FOR BLOWER HSG REVISION
REV: B
VERSION: 02
REVISED: 04:44:32 11/29/2021
TDR: 000001174164
MODEL NO. 09LYT110
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
TEBC RG 254-256TC GP M N F1 INV/VECT W/THRU SH ENC DESIGN
09LYT110

CD0180




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.

CD0180

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\148 | REVISED: 10:25:29 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1