ABB BALDOR RELIANCE

# Customer information packet

## EJPM3158T

3HP, 3450RPM, 3PH, 60HZ, 145JP, 3528M, OPSB, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 143JP |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | NEMA PREMIUM |
| | 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** | None |
| **Current @ Voltage** | 8.000 A @ 208.0 V |
| | 7.600 A @ 230.0 V |
| | 3.800 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 85.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |

## Part Detail

| | |
|---|---|
| **Revision** | P |
| **Type** | AC |
| **Mech. spec.** | 35RR432 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGL051 |
| **Layout** | 35LYRR432 |
| **Eff. date** | 03-27-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 05-28-2015 |

| | |
|---|---|
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.8 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3528M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 17.31 IN |
| **Power Factor** | 89 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | Included |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 3450 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

| | |
|---|---|
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP3553LUA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EJPM3158T | | | | | | | | |
| **SPEC.** | 35RR432L051G1 | | | | | | | | |
| **HP** | 3 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMPS** | 7.6/3.8 | | | | | | | | |
| **RPM** | 3450 | | | | | | | | |
| **FRAME** | 143JP | **HZ** | 60 | | | **PH** | 3 | | |
| **SF** | 1.15 | **CODE** | K | **DES** | B | **CLASS** | F | | |
| **NEMA NOM. EFF** | 85.5 | **PF** | 89 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **ENCL** | OPSB | **SN** | | | | | | | |
| **DE** | 6206 | | **ODE** | 6203 | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT30-60(2:1) VT3-60(20:1)** | | | | | | | | | |
| **USABLE AT** | 50Hz 3HP 190/380V 9/4.5A SF1.0 | | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA302156 | SA 35RR432L051G1 | 1.000 ea |
| RA289242 | RA 35RR432L051G1 | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB3009 | 35 CB W/1.09 DIA. LEAD HOLE @ 6: | 1.000 ea |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3209A00 | MASTER ODE,203 BRG,GRSR | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HA1100A03 | SCREEN, RODENT | 1.000 ea |
| 51XT1032A04 | 10-32X1/4 HX WA SL SR TYT (F/S) | 4.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3401A03 | PU ENDPLATE -OPEN W/SCREENS & GREASER W/ | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HA1102A08 | RODENT SCREEN 35 OPEN FACE MTD | 1.000 ea |
| 51XT1032A04 | 10-32X1/4 HX WA SL SR TYT (F/S) | 4.000 ea |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 ea |
| 35CB4521 | 35 LIPPED CB LID (GALV & PHOSPH) | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HA1005A02 | SLINGER, OD 2.00, ID 1.14, 206 BRG, | 1.000 ea |
| HW2501D14 | KEY, 3/16 SQ X 1.500 | 1.000 ea |
| HA7000A01 | KEY RETAINER 7/8" DIA SHAFT | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| HW1000A10 | #10 FLAT WASHER (SAE) | 4.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| MG1050Y01 | CELEROL BALDOR GOLD *5 GALLON BUCKET* | 0.017 ga |
| HA3100A15 | THRUBOLT 10-32 X 8.375 | 4.000 ea |
| 35AD2005A01 | BAFFLE PLATE,MOD 35-SLTD BAND MTRS TDR | 2.000 ea |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| NP3553LUA | ALUM SUPER-E VPWM INV READY UL CC NEMA P | 1.000 ea |
| G7PA1000 | PKG GRP, PRINT PK1034A07 | 1.000 ea |

| | | |
|---|---|---|
| PK3085X | FOAM SHAFT SUPPORT PRECUT 4-1/4 X 6-3/4 | 1.000 ea |
| FE-0000004 | ZRTG FE ASSEMBLY | 1.000 ea |

**AC Induction Motor Performance Data**
Record # 51104
Typical performance - not guaranteed values

| **Winding:** 35WGL051-R008 | **Type:** 3528M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 4.65 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.6/3.8 | **Breakdown Torque** | 18.7 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 12.2 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 17.3 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 32 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.36 A |
| **NEMA Nom. Eff.** | 85.5 | **Power Factor** | 89 | **Line-line Res. @ 25ºC** | 4.7021 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 55 | 76 | 85 | 89 | 92 | 93 | 91 |
| **Efficiency** | 82.1 | 87 | 87.4 | 86.2 | 84.6 | 82.2 | 85.2 |
| **Speed** | 3566.3 | 3535 | 3499.4 | 3457.2 | 3415.1 | 3364.7 | 3432 |
| **Line amperes** | 1.63 | 2.16 | 2.88 | 3.74 | 4.57 | 5.58 | 4.24 |

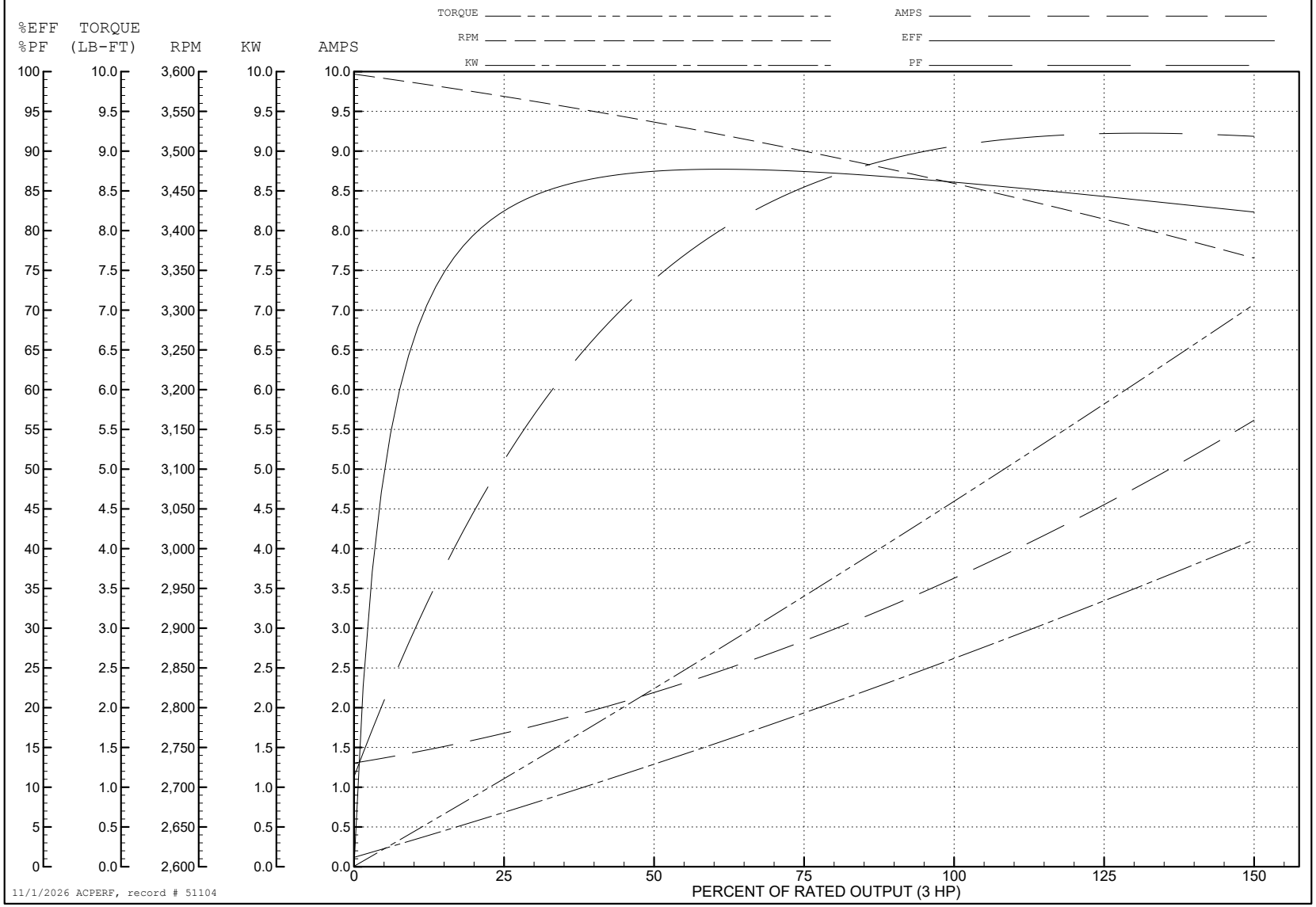
ABB Motors and Mechanical Inc.

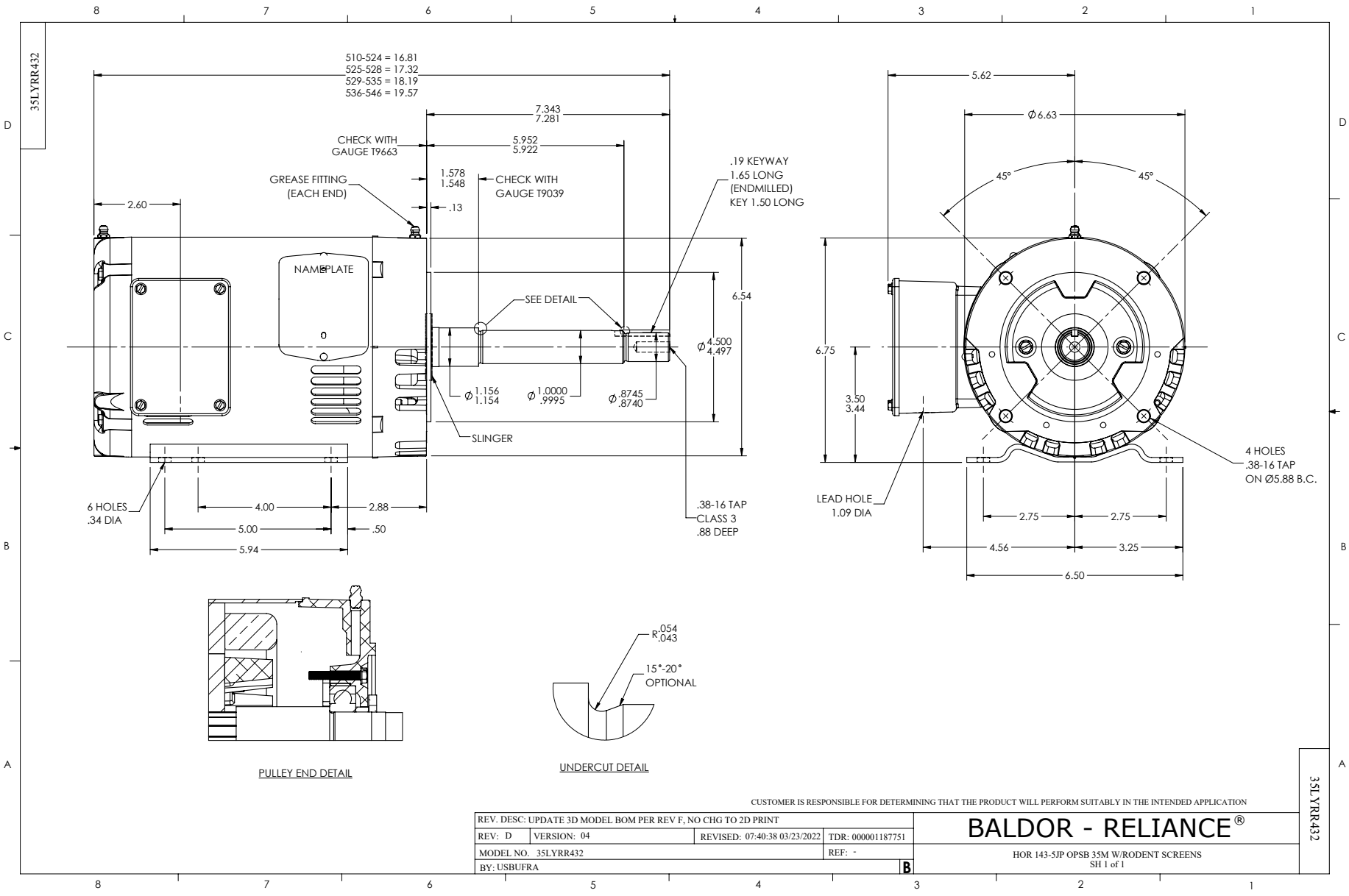
WINDING # 35WGL051

3 HP 3 PH 60 HZ 3450 RPM 460 V 3528M

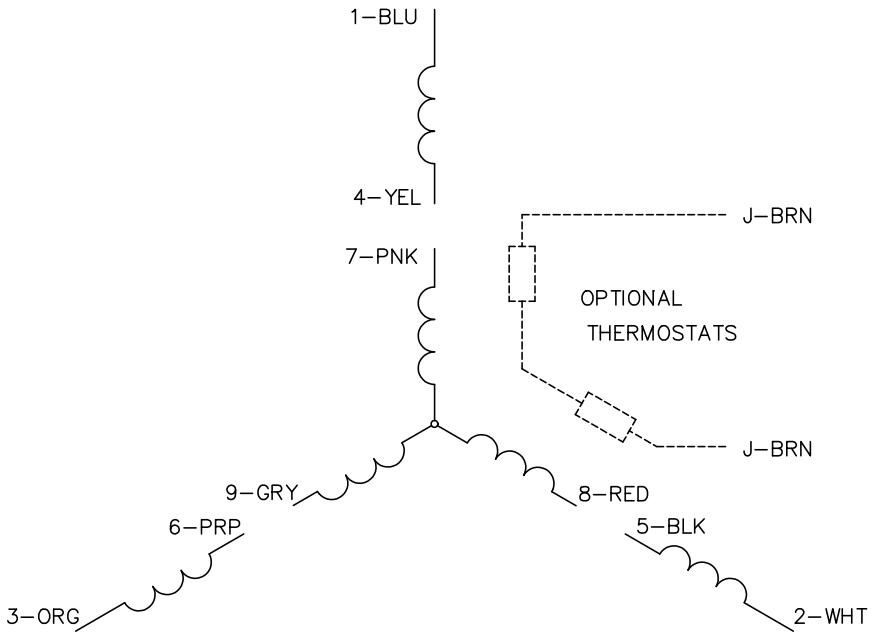
Typical performance - not guaranteed values.

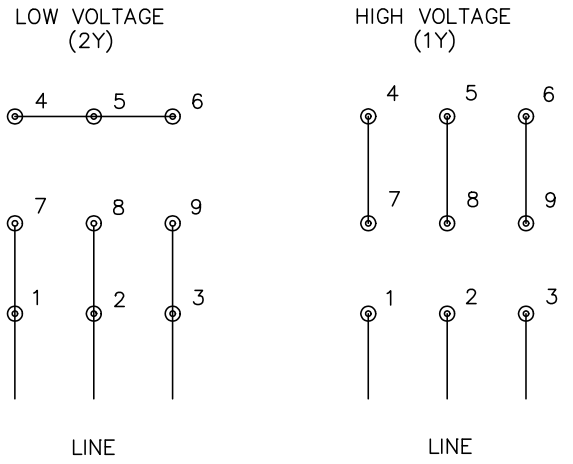
TORQUES(LB-FT): PO=18.7 PU=12.2 LR=17.3 LRA=32




35LYRR432
510-524 = 16.81
525-528 = 17.32
529-535 = 18.19
536-546 = 19.57
7.343
7.281
CHECK WITH GAUGE T9663
5.952
5.922
GREASE FITTING (EACH END)
1.578
1.548
CHECK WITH GAUGE T9039
.13
2.60
.19 KEYWAY
1.65 LONG
(ENDMILLED)
KEY 1.50 LONG
NAMEPLATE
SEE DETAIL
6.54
Ø 4.500
4.497
Ø 1.156
1.154
Ø 1.0000
.9995
Ø .8745
.8740
SLINGER
6 HOLES
.34 DIA
4.00
2.88
5.00
.50
5.94
.38-16 TAP
CLASS 3
.88 DEEP
5.62
Ø 6.63
45°
45°
6.75
3.50
3.44
LEAD HOLE
1.09 DIA
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
2.75
2.75
4.56
3.25
6.50
R .054
.043
15°-20°
OPTIONAL
PULLEY END DETAIL
UNDERCUT DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV F, NO CHG TO 2D PRINT
REV: D
VERSION: 04
REVISED: 07:40:38 03/23/2022
TDR: 000001187751
MODEL NO. 35LYRR432
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 143-5JP OPSB 35M W/RODENT SCREENS
SH 1 of 1
35LYRR432

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.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |