ABB BALDOR RELIANCE

# Customer information packet

## VEJMM3554T

1.5HP, 1770RPM, 3PH, 60HZ, 145JM, 3524M, TEFC
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145JM |
| **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** | 1.500 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 EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | UR |
| **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 |
| **Current @ Voltage** | 4.640 A @ 208.0 V |
| | 4.600 A @ 230.0 V |
| | 2.300 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | 35M317 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGL955 |
| **Layout** | 35LYM317 |
| **Eff. date** | 01-05-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 01-10-2022 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.3 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3524M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 15.43 IN |
| **Power Factor** | 72 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 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** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP3441LUA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VEJMM3554T | | | | | | | | | |
| **SPEC** | 35M317L955G1 | | | | | | | | | |
| **HP** | 1.5 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMPS** | 4.6/2.3 | | | | | | | | | |
| **RPM** | 1770 | | | | | | | | | |
| **FRAME** | 145JM | **HZ** | 60 | **PH** | 3 | | | | | |
| **SF** | 1.15 | **CODE** | M | **DES** | B | **CLASS** | F | | | |
| **NEMA NOM. EFF** | 86.5 | **PF** | 72 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | |
| **DE** | 6206 | **ODE** | 6203 | | | | | | | |
| **VPWM INVERTER READY** | SFA 4.72/2.36 | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |
| | 1.5HP 190/380V 50HZ 5.2/2.6A | | | | | | | | | SF1.0 |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA402554 | SA 35M317L955G1 | 1.000 ea |
| RA393831 | RA 35M317L955G1 | 1.000 ea |
| 34FN3002B01 | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/ | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB3000SP | CONDUIT BOX, CAST, W/.88 DIA. LEAD HOLE | 1.000 ea |
| 36GS1000SP | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 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 |
| HW3001B01 | BRASS CUP WASHER, FOR #10 SCREW | 1.000 ea |
| 35EP3122G00 | MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,R | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3401T05 | FACE ENCL 206 BRG W/GRS, RELIEF & TGHSLV | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 ea |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 ea |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| 35FH4005A86 | IEC FH W/GRSR, NO DIMPLES W/PRIMER | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| HA1005A02 | SLINGER, OD 2.00, ID 1.14, 206 BRG, | 1.000 ea |
| 35CB4514GX | CONDUIT BOX LID KIT | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW2501D13 | KEY, 3/16 SQ X 1.375 | 1.000 ea |
| HA7000A01 | KEY RETAINER 7/8" DIA SHAFT | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 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 |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |

| | | |
|---|---|---|
| NP3441LUA | AL SUPER-E VPWM INV RDY,UL EEV,NEMA PREM | 1.000 ea |
| 36PA1000 | PKG GRP, PRINT PK1016A08 | 1.000 ea |
| PK3082 | STYROFOAM CRADLE | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 ea |

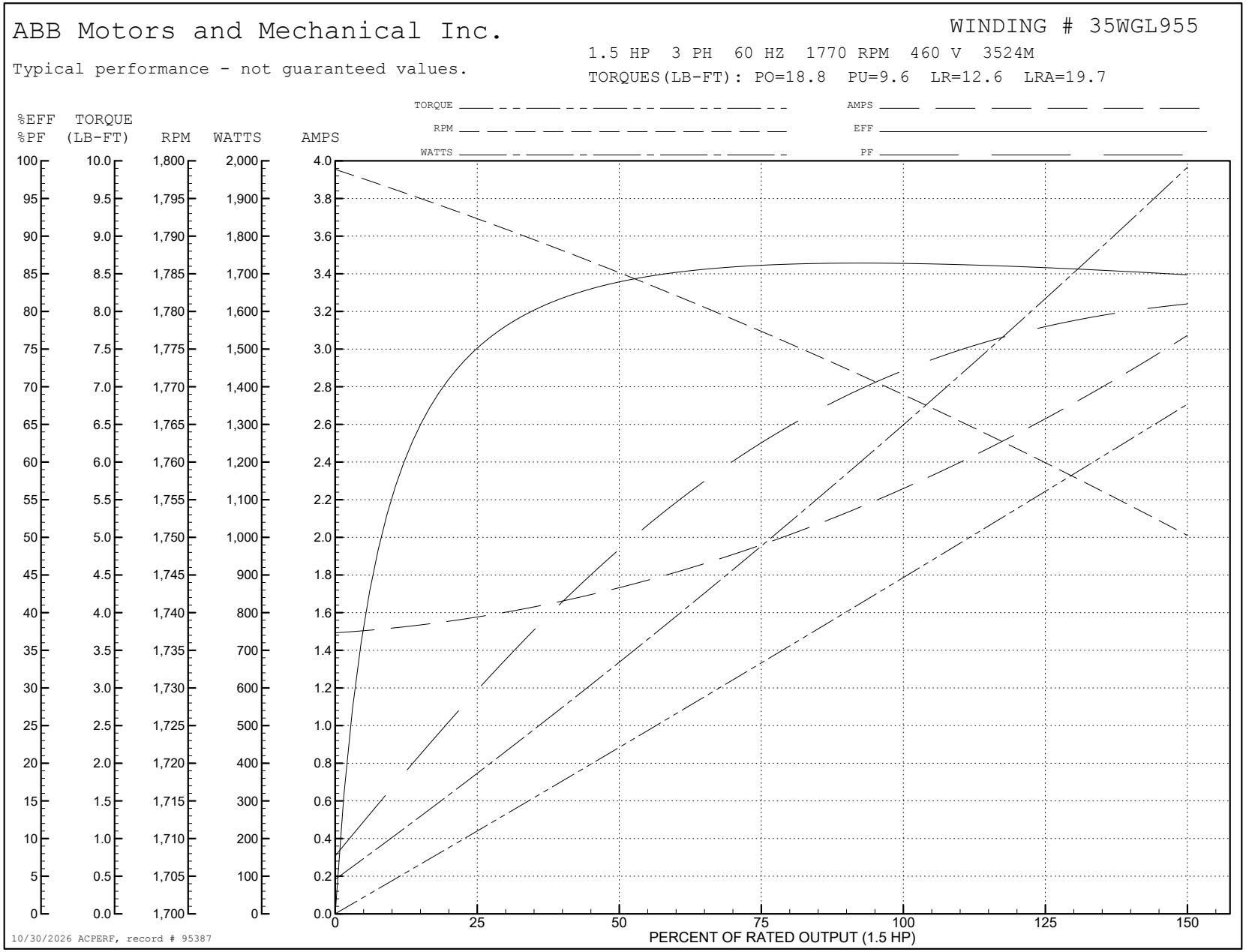
**AC Induction Motor Performance Data**
Record # 95387
Typical performance - not guaranteed values

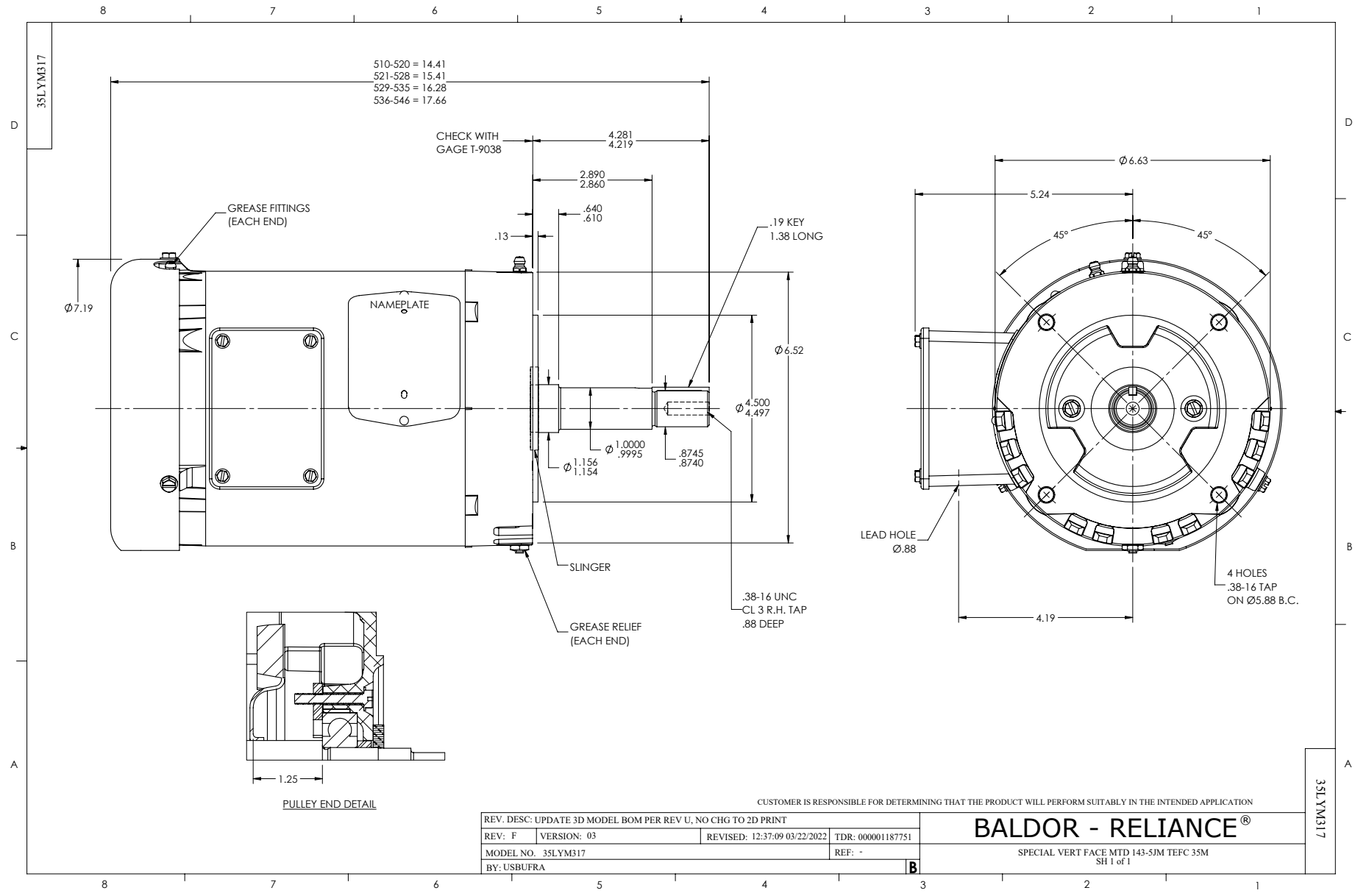
| **Winding:** 35WGL955-R001 | **Type:** 3524M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1.5 | **Full Load Torque** | 4.48 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 4.6/2.3 | **Breakdown Torque** | 18.8 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 9.6 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 12.6 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | M | **Starting Current** | 19.7 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.51 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 72 | **Line-line Res. @ 25ºC** | 11.8 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 48°C |
| **S.F. Amps** | | | 5/2.5 | **Temp. Rise @ S.F. Load** | 57°C |
| | | | | **Locked-rotor Power Factor** | 58.4 |
| | | | | **Rotor inertia** | 0.173 lb-ft² |

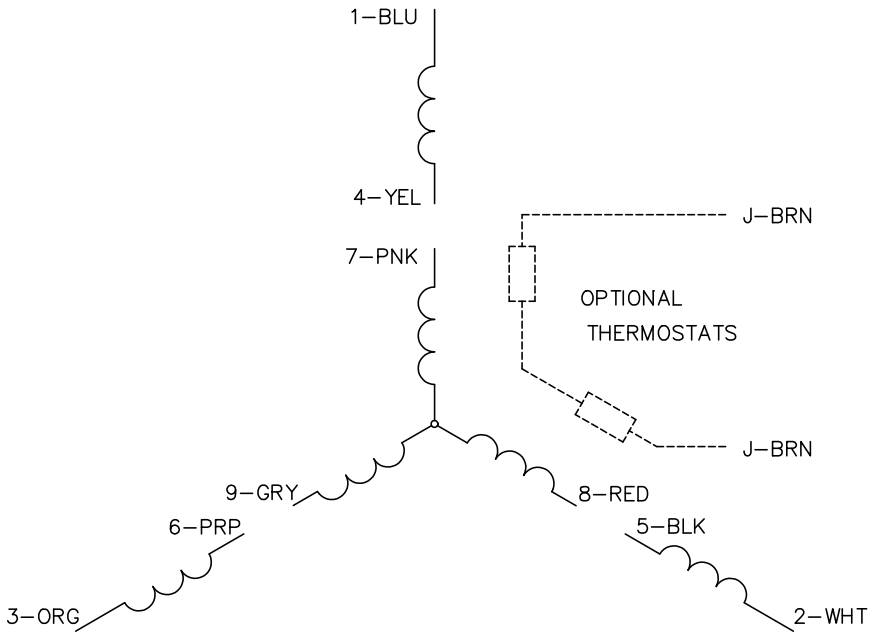
**Load Characteristics 460 V, 60 Hz, 1.5 HP**

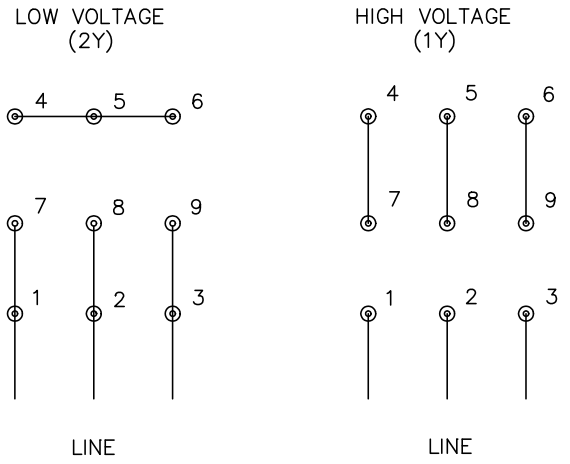
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 31 | 49 | 63 | 72 | 78 | 81 | 76 |
| **Efficiency** | 75.1 | 83.5 | 86 | 86.5 | 85.8 | 84.8 | 86.1 |
| **Speed** | 1792 | 1785 | 1777 | 1769 | 1760 | 1750 | 1764 |
| **Line amperes** | 1.56 | 1.72 | 1.97 | 2.28 | 2.65 | 3.06 | 2.5 |


ABB Motors and Mechanical Inc.
WINDING # 35WGL955
1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3524M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
10/30/2026 ACPERF, record # 95387


35LYM317
510-520 = 14.41
521-528 = 15.41
529-535 = 16.28
536-546 = 17.66
CHECK WITH GAGE T-9038
4.281
4.219
2.890
2.860
.640
.610
.13
GREASE FITTINGS (EACH END)
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø6.52
Ø4.500
4.497
Ø1.0000
.9995
Ø1.156
1.154
.8745
.8740
SLINGER
.38-16 UNC
CL 3 R.H. TAP
.88 DEEP
GREASE RELIEF
(EACH END)
1.25
PULLEY END DETAIL
Ø6.63
5.24
45°
45°
LEAD HOLE
Ø.88
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
4.19
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV U, NO CHG TO 2D PRINT
REV: F
VERSION: 03
REVISED: 12:37:09 03/22/2022
TDR: 000001187751
MODEL NO. 35LYM317
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
SPECIAL VERT FACE MTD 143-5JM TEFC 35M
SH 1 of 1
35LYM317

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 |