ABB BALDOR RELIANCE

# Customer information packet

## EBM3558T

2HP, 1750RPM, 3PH, 60HZ, 145T, 3526M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145T |
| **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** | 2.000 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** | CURUSEEV |
| | NEMA PREMIUM |
| **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** | 2.600 A @ 460.0 V |
| | 5.200 A @ 230.0 V |
| | 5.800 A @ 208.0 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 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.6 a |

## Part Detail

| | |
|---|---|
| **Revision** | A |
| **Type** | AC |
| **Mech. spec.** | 35X075 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGZ165 |
| **Layout** | 35LYX075 |
| **Eff. date** | 04-24-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 11-04-2025 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3526M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 15.40 IN |
| **Power Factor** | 82 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1750 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**

| NP1259L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EBM3558T | | | | | | | | | | |
| **SPEC.** | 35X075Z165 | | | | | | | | | | |
| **HP** | 2 | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | |
| **AMP** | 5.2/2.6 | | | | | | | | | | |
| **RPM** | 1750 | | | | | | | | | | |
| **FRAME** | 145T | **HZ** | 60 | | | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | K | **DES** | B | **CL** | F | | | | |
| **NEMA-NOM-EFF** | 86.5 | **PF** | 82 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | 010A | | | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | | |
| | SFA 6.3/3.15 | | | | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA444221 | SA 35X075Z165 | 1.000 ea |
| RA436747 | RA 35X075Z165 | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB3007 | 35 CB CASTING 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 |
| BR1003A01 | BRAKE RELEASE LEVER | 1.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3900T02 | SPL FACE MTD FR EP-ENCL-W/STEARNS BRAKE | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3123F00 | MASTER DE,205 BRG,.998SH,#26 DRN,GRSR | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HA1014A02SP | SPL SPACER FOR FAN COVER MTD ON BRAKE | 3.000 ea |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB | 3.000 ea |
| HW2501D08 | KEY, 3/16 SQ X .875 AUTO | 1.000 ea |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| 35FH5000A08 | FAN COVER ASSY FOR BRAKE MTRS,W/ PRIMER | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 35CB4521GX | CONDUIT BOX LID KIT **ORDER INDIV PARTS | 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 |
| HA3100A18 | THRUBOLT 10-32 X 9.250 | 4.000 ea |
| 76BK3100BQF | 1-056-031-00-BQF BRAKE TDR# 79345 | 1.000 ea |
| 84XN3816J28 | HEX SOC HD, 3/8-16 X 1.75 LONG | 2.000 ea |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 ea |
| LB1404 | BRAKE CONNECTION LABEL | 1.000 ea |

| | | |
|---|---|---|
| NP1259L | ALUM SUPER-E UL CC NEMA PREMIUM A60 | 1.000 ea |
| G7PA1000 | PKG GRP, PRINT PK1034A07 | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| 35FN3002A01SP | EXFN, PLASTIC, 6.376 OD, .625 ID W/FLAT | 1.000 ea |
| PE-0000001 | ZRTG PE ASSEMBLY | 1.000 ea |

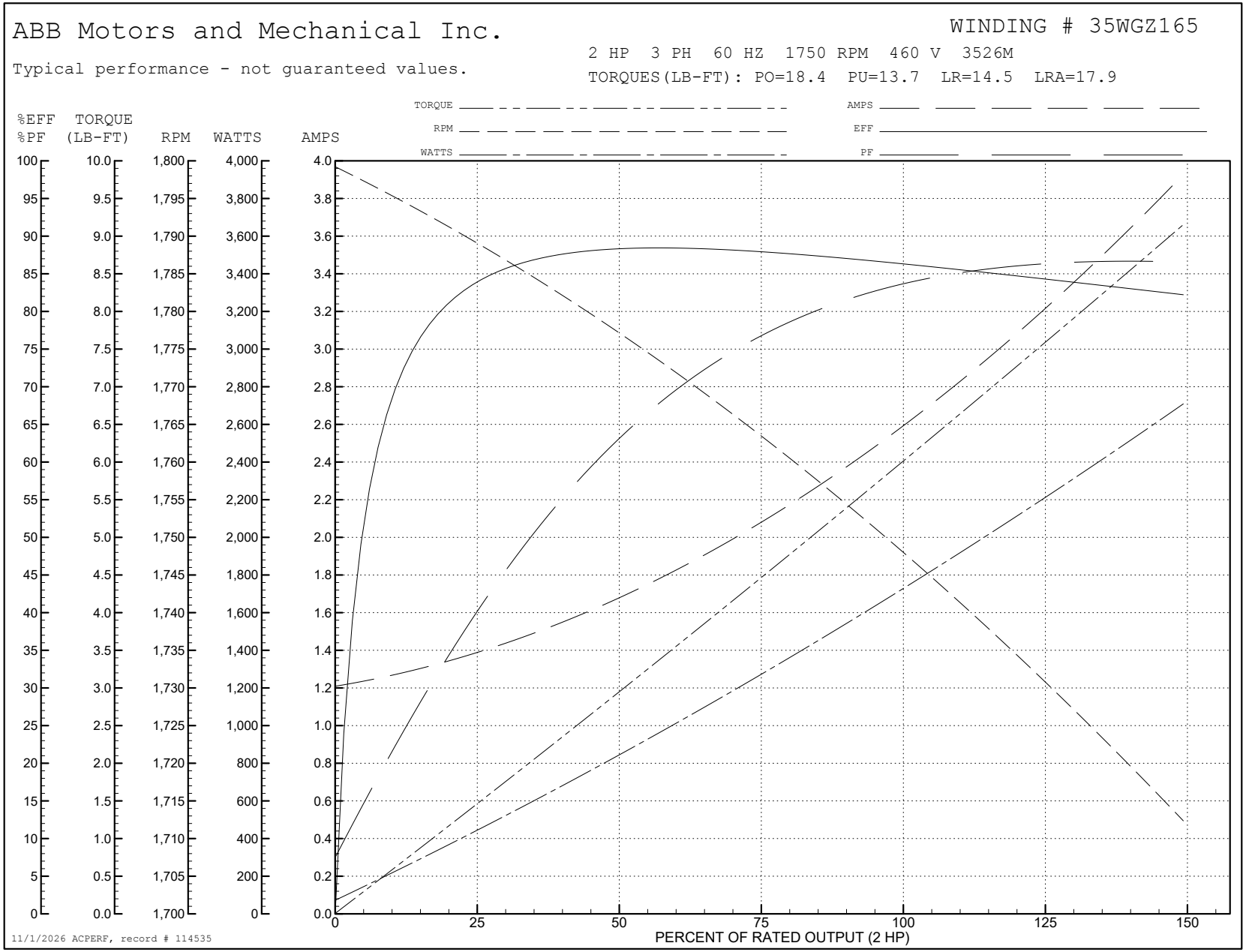
**AC Induction Motor Performance Data**
Record # 114535
Typical performance - not guaranteed values

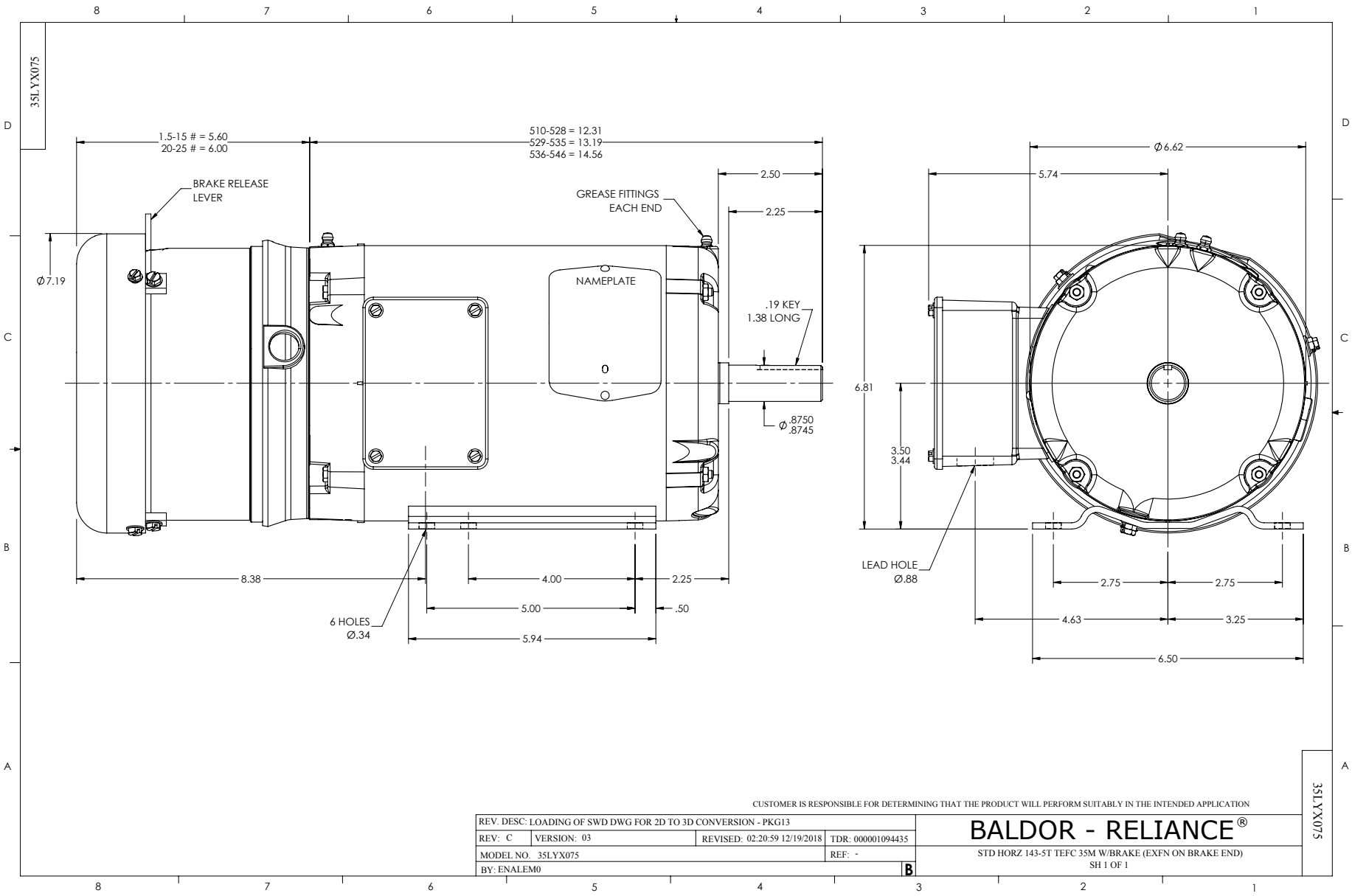
| **Winding:** 35WGZ165-R001 | **Type:** 3526M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 5.979 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5.2/2.6 | **Breakdown Torque** | 18.4 LB-FT |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 13.7 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 14.5 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 17.9 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.24 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 82 | **Line-line Res. @ 25ºC** | 10.857 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 59°C |
| **S.F. Amps** | | | 6/3 | **Temp. Rise @ S.F. Load** | 75°C |
| | | | | **Locked-rotor Power Factor** | 59.3 |

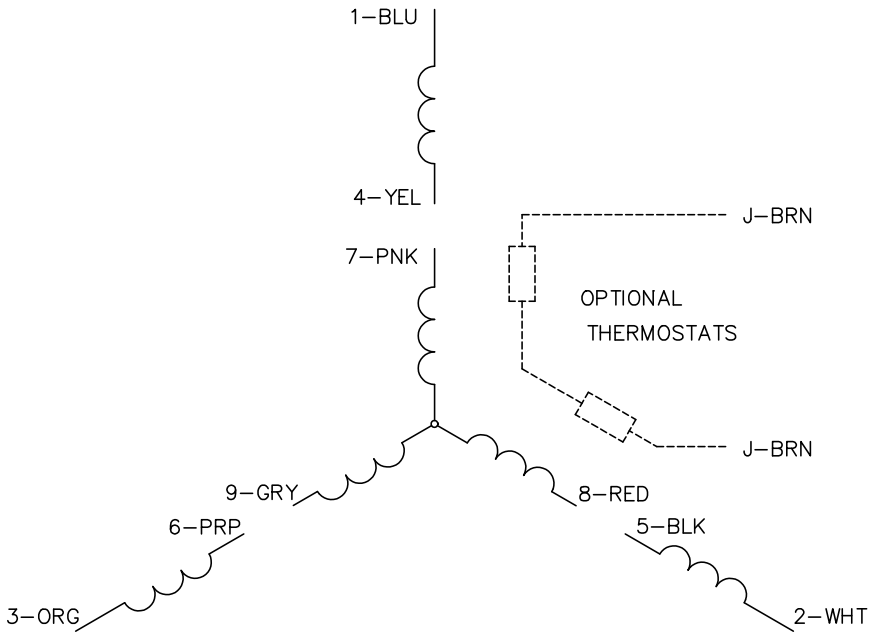
**Load Characteristics 460 V, 60 Hz, 2 HP**

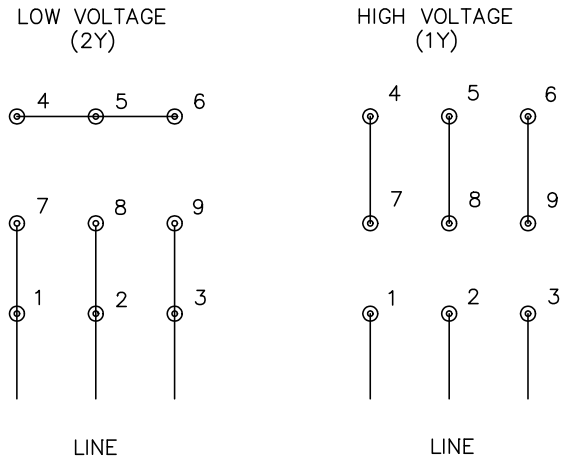
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 42 | 64 | 76 | 82 | 86 | 87 | 84 |
| **Efficiency** | 82.7 | 87.6 | 87.8 | 86.6 | 84.6 | 82 | 85.4 |
| **Speed** | 1788.4 | 1776.9 | 1763.5 | 1748.9 | 1731.7 | 1711.8 | 1739 |
| **Line amperes** | 1.35 | 1.65 | 2.09 | 2.61 | 3.21 | 3.91 | 2.97 |


ABB Motors and Mechanical Inc.
WINDING # 35WGZ165
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1750 RPM 460 V 3526M
TORQUES(LB-FT): PO=18.4 PU=13.7 LR=14.5 LRA=17.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/1/2026 ACPERF, record # 114535


35LYX075
1.5-15 # = 5.60
20-25 # = 6.00
510-528 = 12.31
529-535 = 13.19
536-546 = 14.56
BRAKE RELEASE LEVER
GREASE FITTINGS EACH END
2.50
2.25
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
Ø .8745
8.38
4.00
2.25
5.00
.50
5.94
6 HOLES
Ø.34
Ø6.62
5.74
6.81
3.50
3.44
LEAD HOLE
Ø.88
2.75
2.75
4.63
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG13
REV: C
VERSION: 03
REVISED: 02:20:59 12/19/2018
TDR: 000001094435
MODEL NO. 35LYX075
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 143-5T TEFC 35M W/BRAKE (EXFN ON BRAKE END)
SH 1 OF 1
35LYX075

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 |