ABB BALDOR RELIANCE

# Customer information packet

## VEUHM3558T-5

2/1.5KWHP, 1764 1/MINRPM, 3PH, 60HZ, 145TC, 3
Class - None
Division - Not Applicable

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11/10/2026 1:17:31 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145TC |
| **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** | 575.0 V @ 60 HZ |
| **Agency Approvals** | CE |
| | CSA EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | UR |
| | WEEE |
| **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** | 2.150 A @ 575.0 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 |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | 35W819 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG113 |
| **Layout** | 35LYW819 |
| **Eff. date** | 04-16-2024 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#18 Y |
| **Proprietary** | False |
| **Created date** | 01-10-2022 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 2.2 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 3 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3528M |
| **Mounting Arrangement** | F3 |
| **Number of Poles** | 4 |
| **Overall Length** | 13.29 IN |
| **Power Factor** | 80 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **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** | 1764 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**

| NP4304L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VEUHM3558T-5 | | | | | | | | |
| **SPEC.** | 35W819G113G1 | | | | | | | | |
| **HP** | 2/1.5KW | | | | **PH** | 3 | | | |
| **VOLTS** | 575 | | | | | | | | |
| **AMPS** | 2.15 | | | | | | | | |
| **R.P.M. (1/MIN)** | 1764 1/MIN | | | | **WT.** | 21KG | **KG** | | |
| **FRAME** | 145TC | **HZ** | 60 | | **I.P.** | 44 | | | |
| **SER.F.** | 1.15 | **CODE** | L | **DES.** | B | **CLASS** | F | | |
| **NOM.EFF.** | 86.5 | **% (100%)** | | | | | | | |
| **P.F.** | 80 | | | | | | | | |
| **RATING** | 40C AMB-S1 CONT | | | **CC** | 010A | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| | IE3-86.5(75%)84.4(50%) | | | | | | | | |
| | SFA 2.56 | | | | | | | | |
| | IC411 | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 81982
Typical performance - not guaranteed values

| **Winding:** 35WGG113-R001 | **Type:** 3528M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 5.95 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 2.15 | **Breakdown Torque** | 23.7 LB-FT |
| **R.P.M.** | | | 1765 | **Pull-up Torque** | 14.43 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 17.45 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 19.89 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.39 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 80 | **Line-line Res. @ 25ºC** | 15 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 58°C |
| **S.F. Amps** | | | 2.56 | **Temp. Rise @ S.F. Load** | 70°C |
| | | | | **Locked-rotor Power Factor** | 57 |
| | | | | **Rotor inertia** | 0.188 lb-ft² |

**Load Characteristics 575 V, 60 Hz, 2 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 34 | 54 | 68 | 76 | 81 | 84 | 79 |
| **Efficiency** | 77 | 84.7 | 86.6 | 86.3 | 85.3 | 83.7 | 85.7 |
| **Speed** | 1791 | 1783 | 1775 | 1766 | 1757 | 1745 | 1761 |
| **Line amperes** | 1.45 | 1.64 | 1.93 | 2.29 | 2.74 | 3.19 | 2.56 |

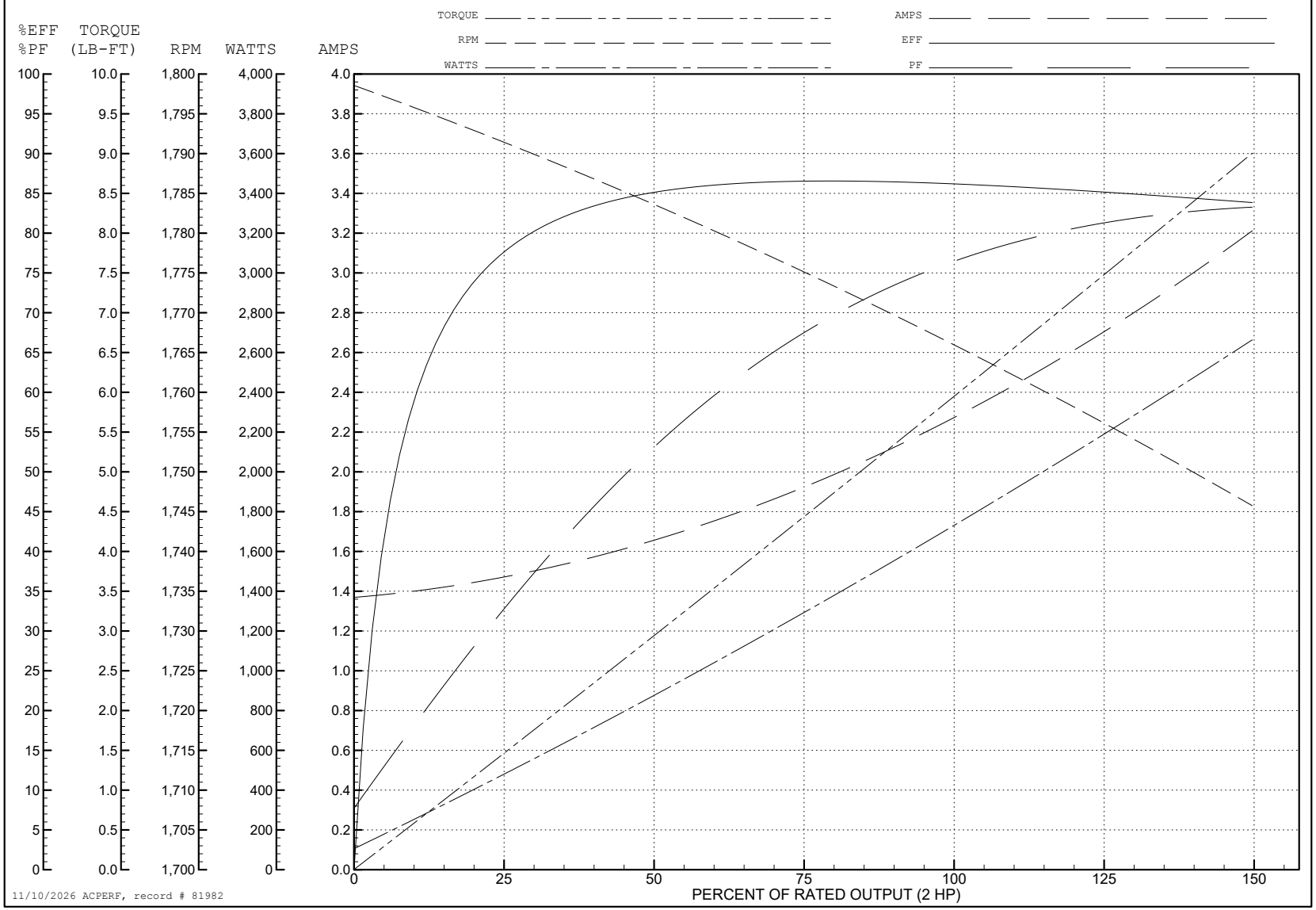
ABB Motors and Mechanical Inc.

WINDING # 35WGG113

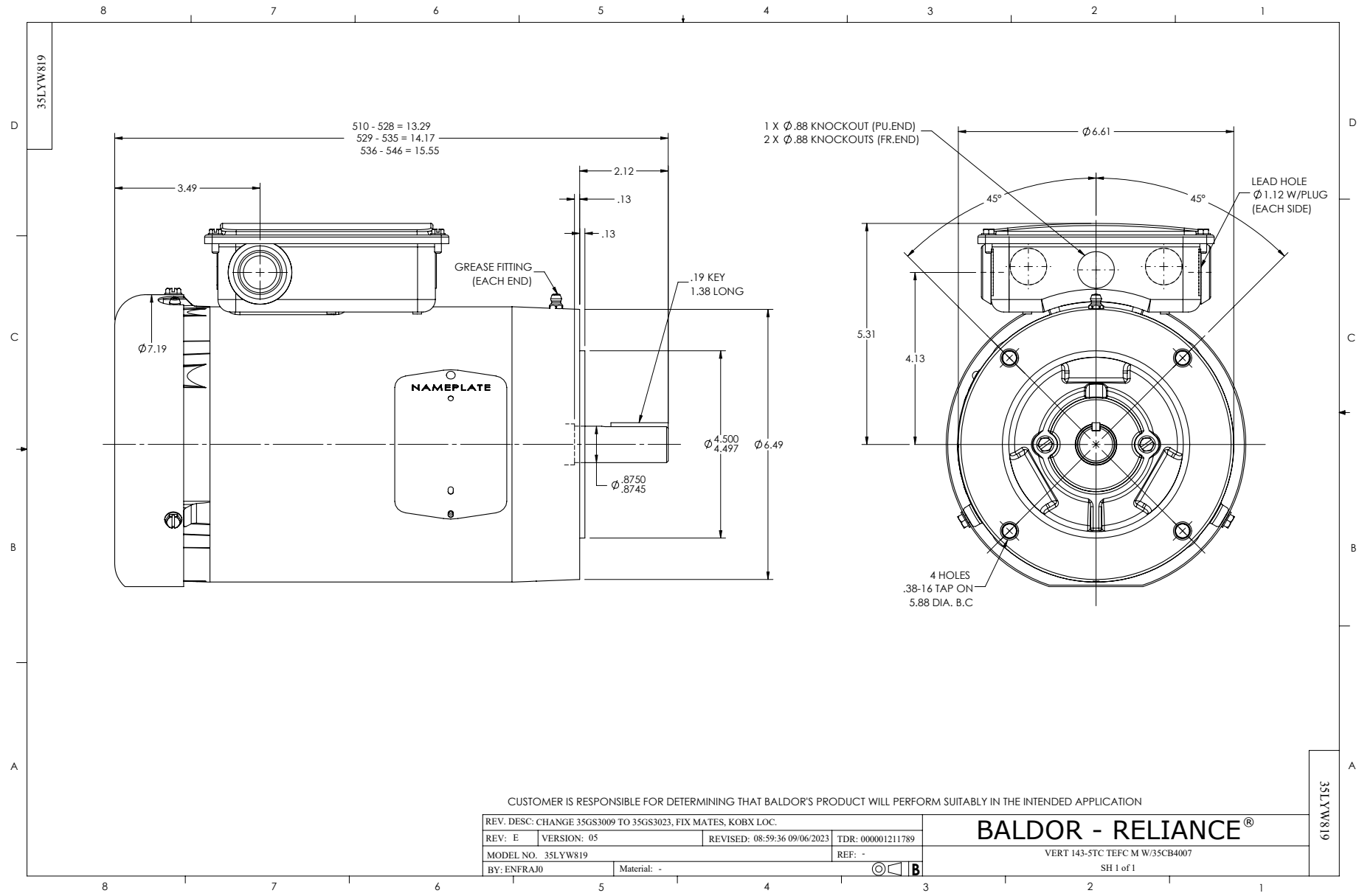
2 HP 3 PH 60 HZ 1765 RPM 575 V 3528M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=23.7 PU=14.43 LR=17.45 LRA=19.89

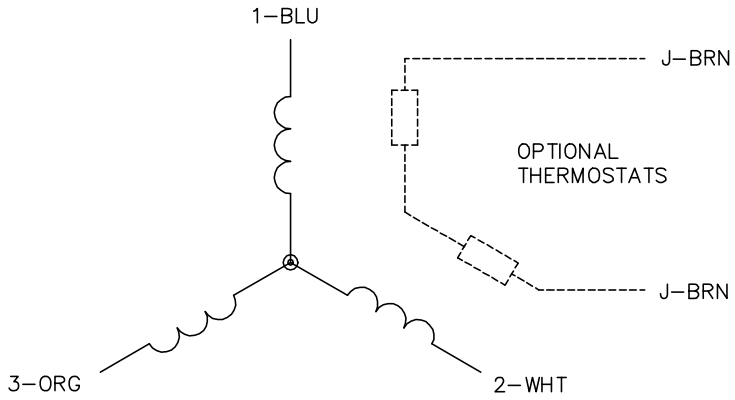


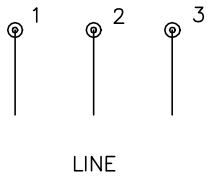

11/10/2026 ACPERF, record # 81982


35LYW819
510 - 528 = 13.29
529 - 535 = 14.17
536 - 546 = 15.55
3.49
2.12
.13
.13
GREASE FITTING
(EACH END)
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø4.500
4.497
Ø6.49
Ø.8750
.8745
1 X Ø.88 KNOCKOUT (PU.END)
2 X Ø.88 KNOCKOUTS (FR.END)
Ø6.61
LEAD HOLE
Ø1.12 W/PLUG
(EACH SIDE)
45°
45°
5.31
4.13
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE 35GS3009 TO 35GS3023, FIX MATES, KOBX LOC.
REV: E
VERSION: 05
REVISED: 08:59:36 09/06/2023
TDR: 000001211789
MODEL NO. 35LYW819
REF: -
BY: ENFRAJ0
Material: -
B
BALDOR - RELIANCE®
VERT 143-5TC TEFC M W/35CB4007
SH 1 of 1
35LYW819

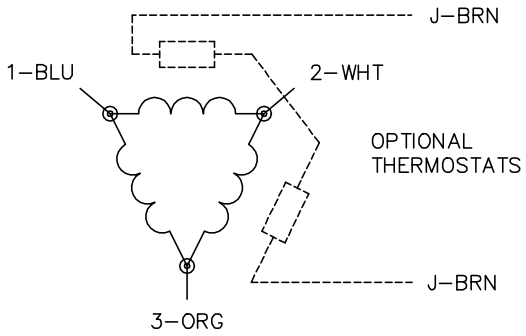
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




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: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

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

SH 1 of 1