ABB BALDOR RELIANCE

# Customer information packet

XM05122-5

1HP, 3450RPM, 3PH, 60HZ, 56, 3516M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 56 |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP D; CLII GP F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 1.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | UL |
| | CSA EEV |
| **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 |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 1.100 A @ 575.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 84.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 1.1 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |

## Part Detail

| | |
|---|---|
| **Revision** | - |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGT463 |
| **Layout** | 35LYE354 |
| **Eff. date** | 04-08-2021 |
| **CD Diagram** | CD0006 |
| **Poles** | 02 |
| **Leads** | 3#18 |
| **Proprietary** | False |
| **Created date** | 03-26-2021 |

| | |
|---|---|
| **IP Rating** | NONE |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Max Speed** | 5400 rpm |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3516M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 14.28 IN |
| **Power Factor** | 82 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 3450 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**

**NP0887XPSLEV**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NO.** | | **CC** | 010A | | | | |
| **S/N** | | **TEMP CODE** | T3C | | | | |
| **SPEC.** | 35-0000-1098 | **INV.TYPE** | PWM | | | | |
| **CAT.NO.** | XM05122-5 | **C HP FR** | 60 | **C HP TO** | 90 | | |
| **HP** | 1 | **CT HZ FROM** | 6 | | | **CT HZ TO** | 60 |
| **VOLTS** | 575 | **VT HZ FROM** | 6 | | | **VT HZ TO** | 60 |
| **AMPS** | 1.1 | **MAG CUR** | .5 | | | | |
| **RPM** | 3450 | **MX RPM** | 5400 | | | | |
| **HZ** | 60 | **PH** | 3 | **CL** | F | **NOM.EFF.** | 84 |
| **SER.F.** | 1.00 | **DES** | B | **SL HZ** | 2 | **WK2** | 0.05 |
| **FRAME** | 56 | **RATING** | 40C AMB-CONT | | | | |
| | NEMA MG-1 PART 5, IP54 | | | | | | |
| | 1.15 SF ON SINE WAVE | | | | | | |

**AC Induction Motor Performance Data**
Record # 83957
Typical performance - not guaranteed values

| **Winding:** 35WGT463-R006 | **Type:** 3516M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1 | **Full Load Torque** | 1.5 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 1.1 | **Breakdown Torque** | 6.5 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 4.8 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 5.7 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 9.7 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 0.54 A |
| **NEMA Nom. Eff.** | 84 | **Power Factor** | 82 | **Line-line Res. @ 25ºC** | 24.1 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 43°C |
| | | | | **Locked-rotor Power Factor** | 56.4 |
| | | | | **Rotor inertia** | 0.0443 lb-ft² |

**Load Characteristics 575 V, 60 Hz, 1 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 45 | 65 | 77 | 83 | 87 | 87 |
| **Efficiency** | 70.3 | 80.5 | 83.9 | 84.6 | 84.6 | 83.7 |
| **Speed** | 3567 | 3539 | 3510 | 3479 | 3446 | 3410 |
| **Line amperes** | 0.6 | 0.72 | 0.87 | 1.06 | 1.25 | 1.5 |

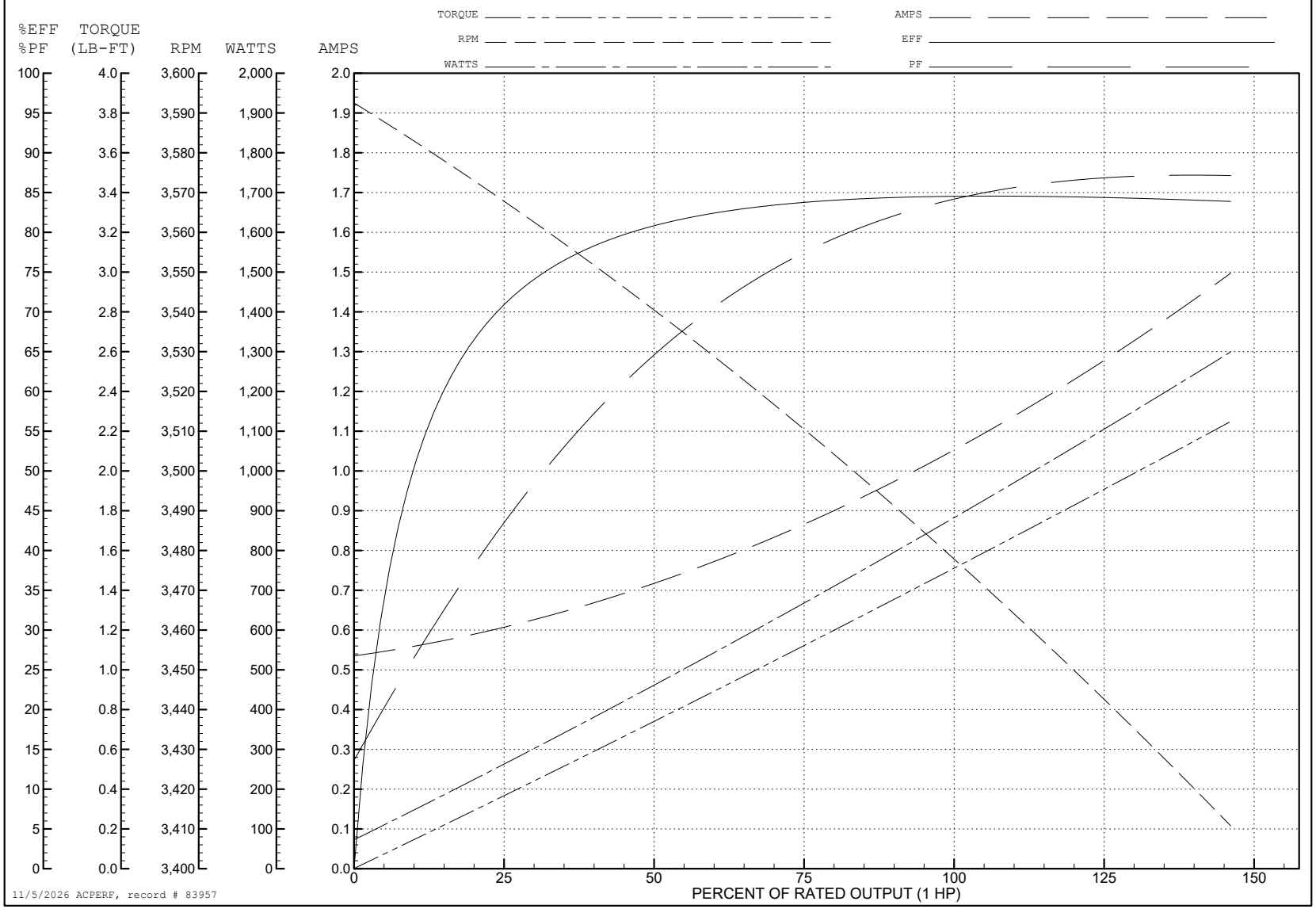
ABB Motors and Mechanical Inc.

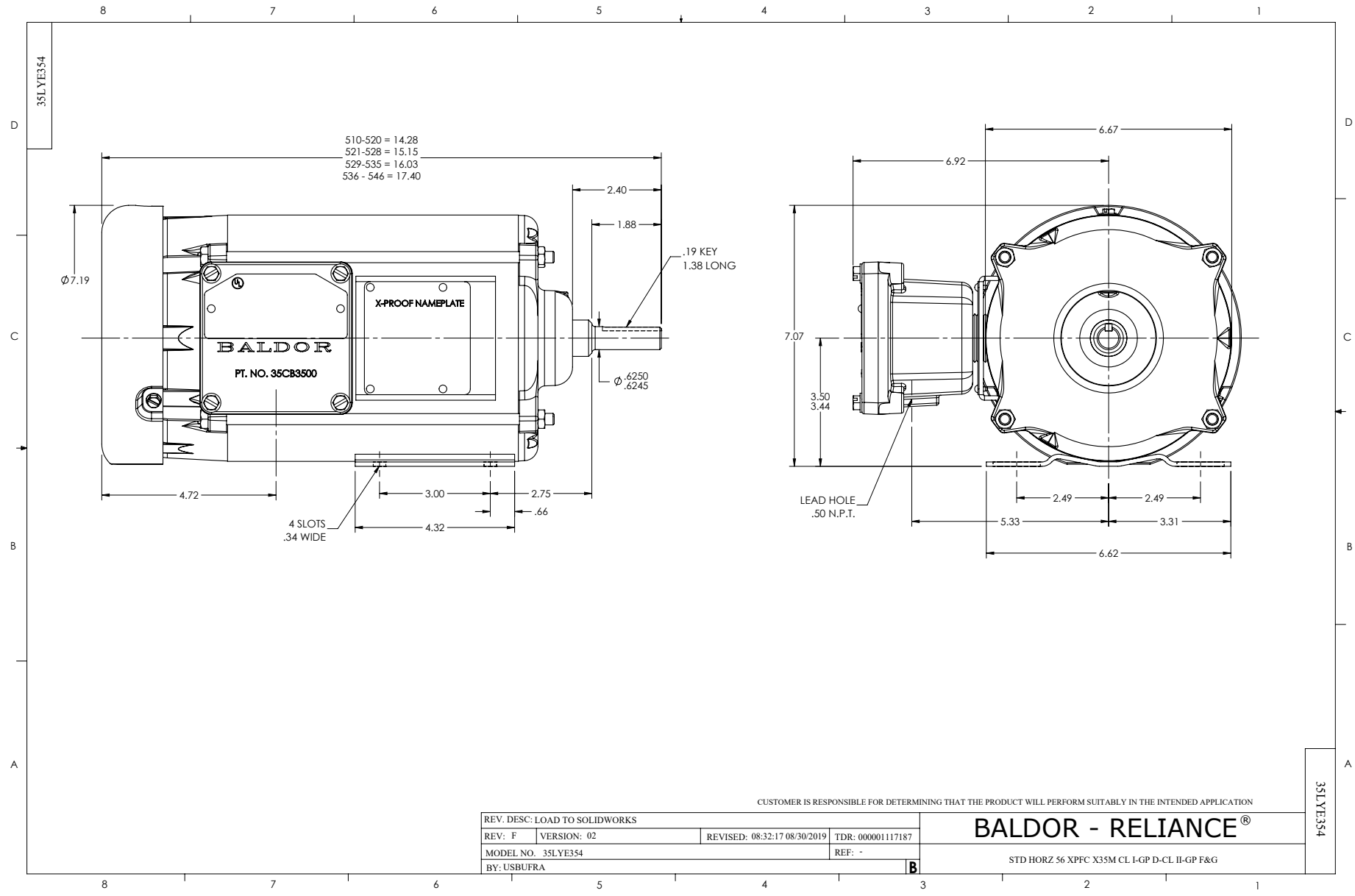
WINDING # 35WGT463

1 HP 3 PH 60 HZ 3450 RPM 575 V 3516M

Typical performance - not guaranteed values.

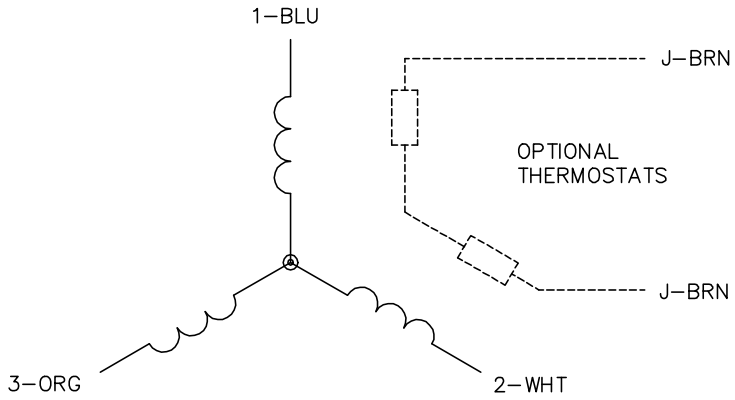
TORQUES(LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=9.7

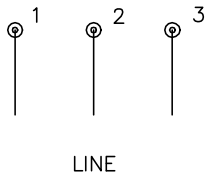



35LYE354
510-520 = 14.28
521-528 = 15.15
529-535 = 16.03
536 - 546 = 17.40
2.40
1.88
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .6250
.6245
4.72
3.00
2.75
.66
4 SLOTS
.34 WIDE
4.32
6.67
6.92
7.07
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.33
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: F
VERSION: 02
REVISED: 08:32:17 08/30/2019
TDR: 000001117187
MODEL NO. 35LYE354
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 56 XPFC X35M CL I-GP D-CL II-GP F&G
35LYE354

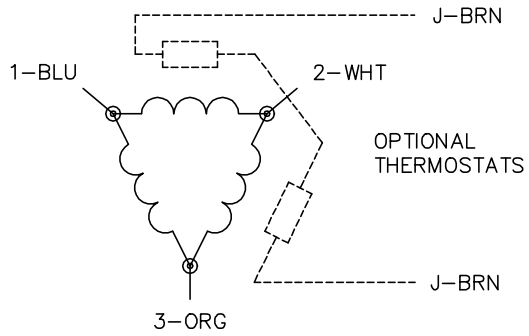
CD0006

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 | | | BALDOR - RELIANCE® |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 | |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIR0 | 3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED |
| MTL: – | | | SH 1 of 1 |