ABB BALDOR RELIANCE

# Customer information packet

XM14162T

1//.75HP, 1155//970RPM, 3PH, 60//50HZ, 145T
Class - CLI GP D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 145T |
| **Frame Material** | Steel |
| **Frequency** | 50.00 Hz |
| | 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 |
| | .750 HP @ 50 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 190.0 V @ 50 HZ |
| | 230.0 V @ 60 HZ |
| | 380.0 V @ 50 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | UL |
| **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** | 2.2 |
| **Current @ Voltage** | 3.500 A @ 208.0 V |
| | 3.200 A @ 190.0 V |
| | 3.000 A @ 230.0 V |
| | 1.600 A @ 380.0 V |
| | 1.500 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |

## Part Detail

| | |
|---|---|
| **Revision** | - |
| **Type** | AC |
| **Mech. spec.** | 35Q558 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG019 |
| **Layout** | 35LYQ558 |
| **Eff. date** | 06-22-2023 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 02-23-2023 |

| | |
|---|---|
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 82.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 1.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | J |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Max Speed** | 1800 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | X3526M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 15.21 IN |
| **Power Factor** | 67 |
| **Product Family** | Hazardous Location Motor |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS NON-COMPLIANT |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1155 rpm |

| | |
|---|---|
| | 970 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.** | 35Q558G019G2 | | | **INV.TYPE** | PWM | | | | | | |
| **CAT.NO.** | XM14162T | | | **C HP FR** | 60 | **C HP TO** | 90 | | | | |
| **HP** | 1//.75 | | | **CT HZ FROM** | 2.2 | | | **CT HZ TO** | 60 | | |
| **VOLTS** | 230/460//190/380 | | | **VT HZ FROM** | 2.2 | | | **VT HZ TO** | 60 | | |
| **AMPS** | 3/1.5//3.2/1.6 | | | **MAG CUR** | 2/1 | | | | | | |
| **RPM** | 1155//970 | | | **MX RPM** | 1800 | | | | | | |
| **HZ** | 60//50 | **PH** | 3 | **CL** | F | **NOM.EFF.** | 82.5 | | | | |
| **SER.F.** | 1.00 | **DES** | B | **SL HZ** | 1.57 | **WK2** | 0.189 | | | | |
| **FRAME** | 145T | **RATING** | 40C AMB-CONT | | | | | | | | |
| | 55C AMB AT 1.00 SF SINEWAVE | | | | | | | | | | |
| | NEMA MG-1 PART 5, IP54 | | | | 1.15 SF SINEWAVE | | | | | | |

**AC Induction Motor Performance Data**
Record # 87727
Typical performance - not guaranteed values

| **Winding:** 35WGG019-R008 | **Type:** 3526M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 1//.75 |
| **Volts** | | | 230/460//190/380 |
| **Full Load Amps** | | | 3/1.5//3.2/1.6 |
| **R.P.M.** | | | 1155//970 |
| **Hz** | 60//50 | **Phase** | 3 |
| **NEMA Design Code** | B | **KVA Code** | J |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 82.5 | **Power Factor** | 67 |
| **Rating - Duty** | | | 40C AMB-CONT |
| **S.F. Amps** | | | |

| **460 V, 60 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 4.48 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 11.9 LB-FT |
| **Pull-up Torque** | 7.1 LB-FT |
| **Locked-rotor Torque** | 8.6 LB-FT |
| **Starting Current** | 9.1 A |
| **No-load Current** | 1.02 A |
| **Line-line Res. @ 25ºC** | 21.1 Ω |
| **Temp. Rise @ Rated Load** | 46°C |
| **Temp. Rise @ S.F. Load** | 56°C |
| **Locked-rotor Power Factor** | 48.3 |
| **Rotor inertia** | 0.189 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 29 | 47 | 59 | 67 | 72 | 75 |
| **Efficiency** | 73.5 | 81.9 | 83.5 | 83.1 | 81.6 | 79.1 |
| **Speed** | 1193 | 1185 | 1178 | 1169 | 1159 | 1147 |
| **Line amperes** | 1.07 | 1.21 | 1.41 | 1.67 | 1.98 | 2.35 |

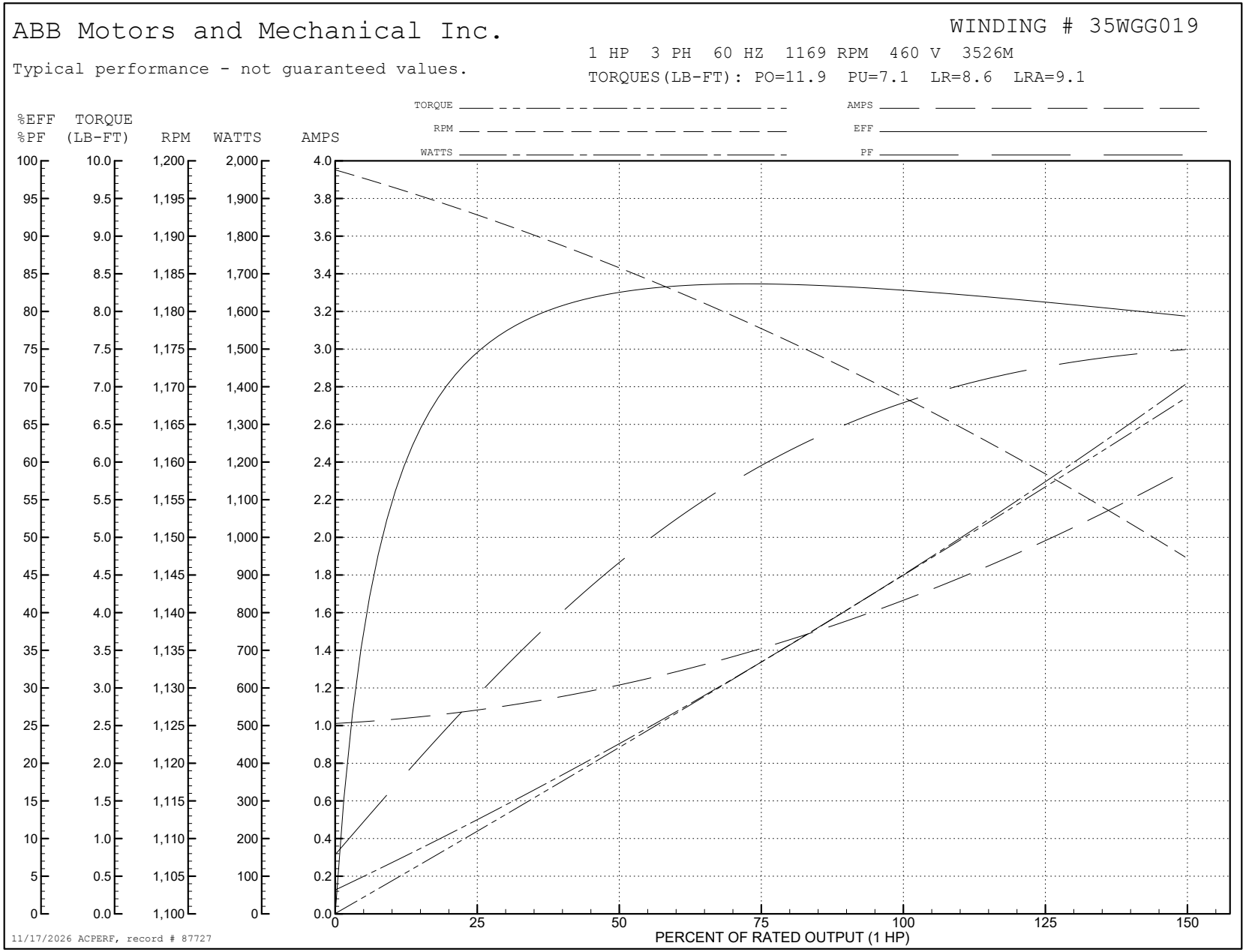
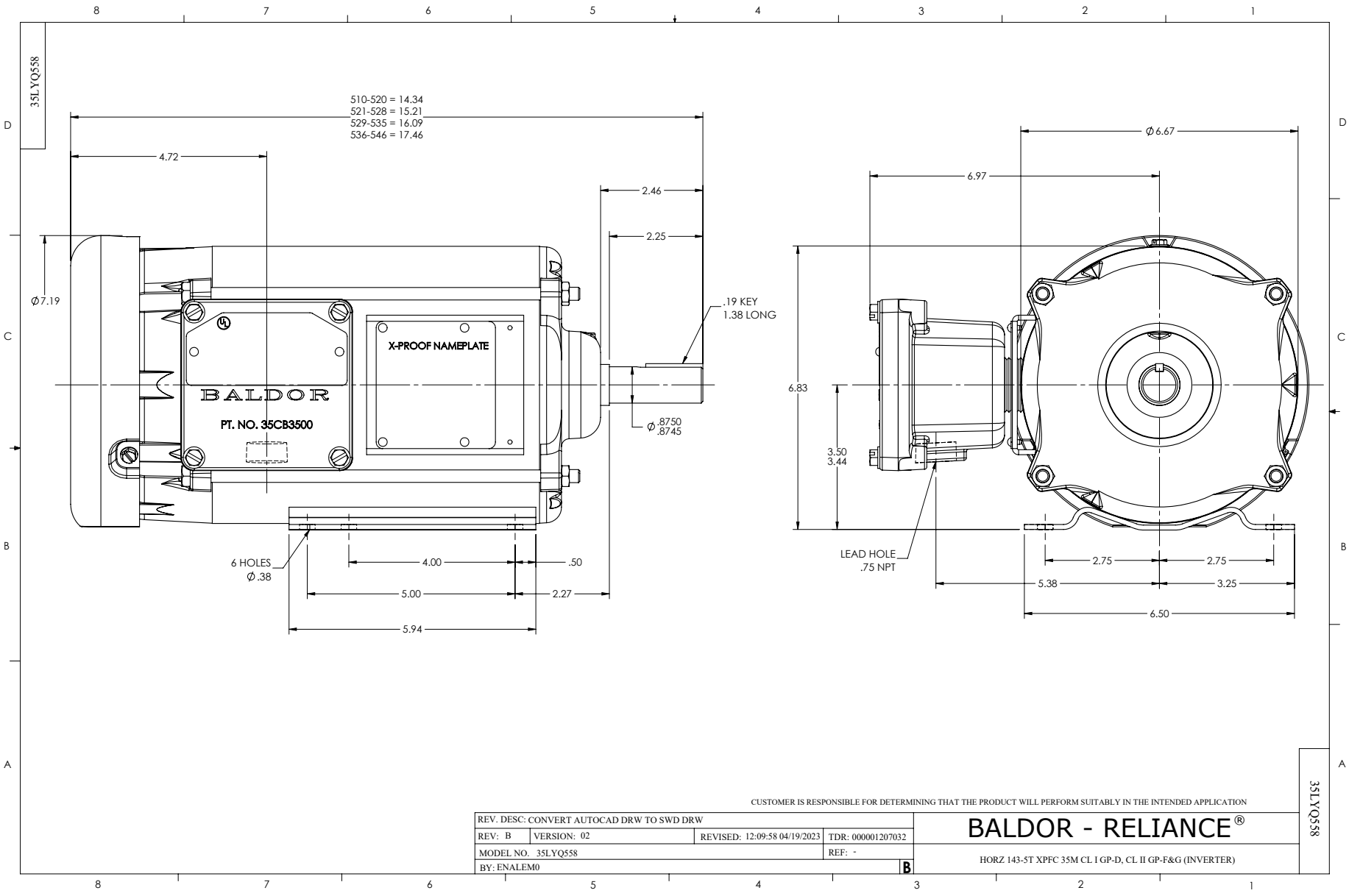
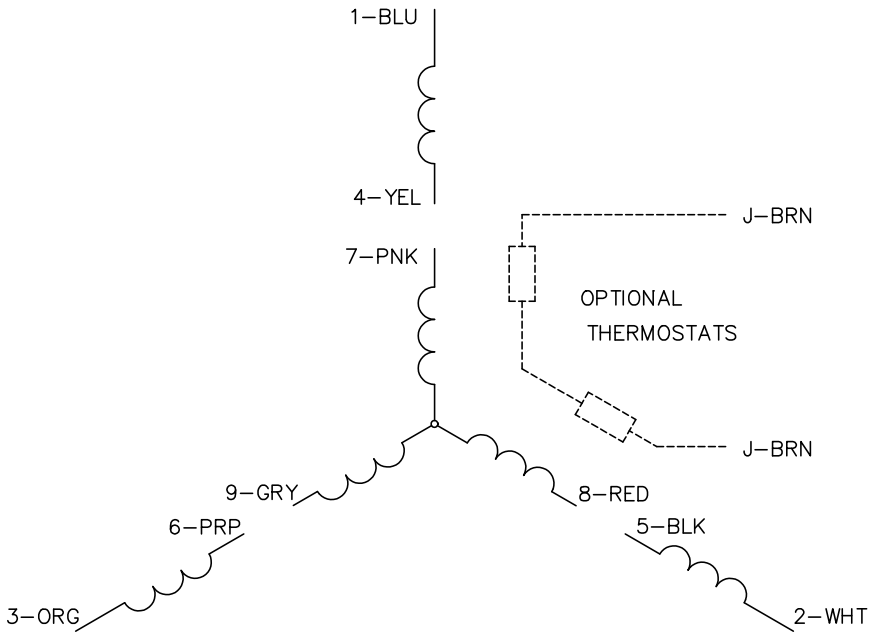
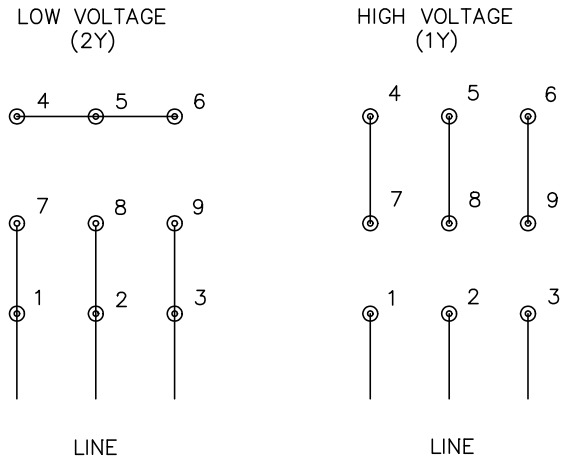


ABB Motors and Mechanical Inc.
WINDING # 35WGG019
1 HP 3 PH 60 HZ 1169 RPM 460 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=11.9 PU=7.1 LR=8.6 LRA=9.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/17/2026 ACPERF, record # 87727


35LYQ558
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536-546 = 17.46
4.72
2.46
2.25
Ø7.19
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .8750
.8745
6 HOLES
Ø .38
4.00
.50
5.00
2.27
5.94
Ø 6.67
6.97
6.83
3.50
3.44
LEAD HOLE
.75 NPT
2.75
2.75
5.38
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 12:09:58 04/19/2023
TDR: 000001207032
MODEL NO. 35LYQ558
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 143-5T XPFC 35M CL I GP-D, CL II GP-F&G (INVERTER)
35LYQ558

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 |