ABB BALDOR RELIANCE

# Customer information packet

CJEWDM3559

3HP, 3450RPM, 3PH, 60HZ, 56J, 3540M, TEFC, F1, N
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56J |
| **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** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| | 208.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UR |
| **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** | 7.700 A @ 208.0 V |
| | 7.000 A @ 230.0 V |
| | 3.500 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 87.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | M |
| **Type** | AC |
| **Mech. spec.** | 35E2234 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGQ130 |
| **Layout** | 35LYE2234 |
| **Eff. date** | 10-01-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 07-01-2015 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3540M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 15.98 IN |
| **Power Factor** | 92 |
| **Product Family** | Wash Down |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Ext Thread |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 3450 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**

| NP2179L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CJEWDM3559 | | | | | | | | |
| **SPEC.** | 35E2234Q130G2 | | | | | | | | |
| **HP** | 3 | | | | | | | | |
| **VOLTS** | 208-230/460 | | | | | | | | |
| **AMP** | 7.7-7/3.5 | | | | | | | | |
| **RPM** | 3450 | | | | | | | | |
| **FRAME** | 56J | | **HZ** | 60 | | | **PH** | 3 | |
| **SER.F.** | 1.15 | **CODE** | M | **DES** | B | **CLASS** | | F | |
| **NEMA-NOM-EFF** | 87.5 | **PF** | 92 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6205 | | **ODE** | 6203 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| **BLANK** | SFA 8.8-8/4 | | | | | | | | |

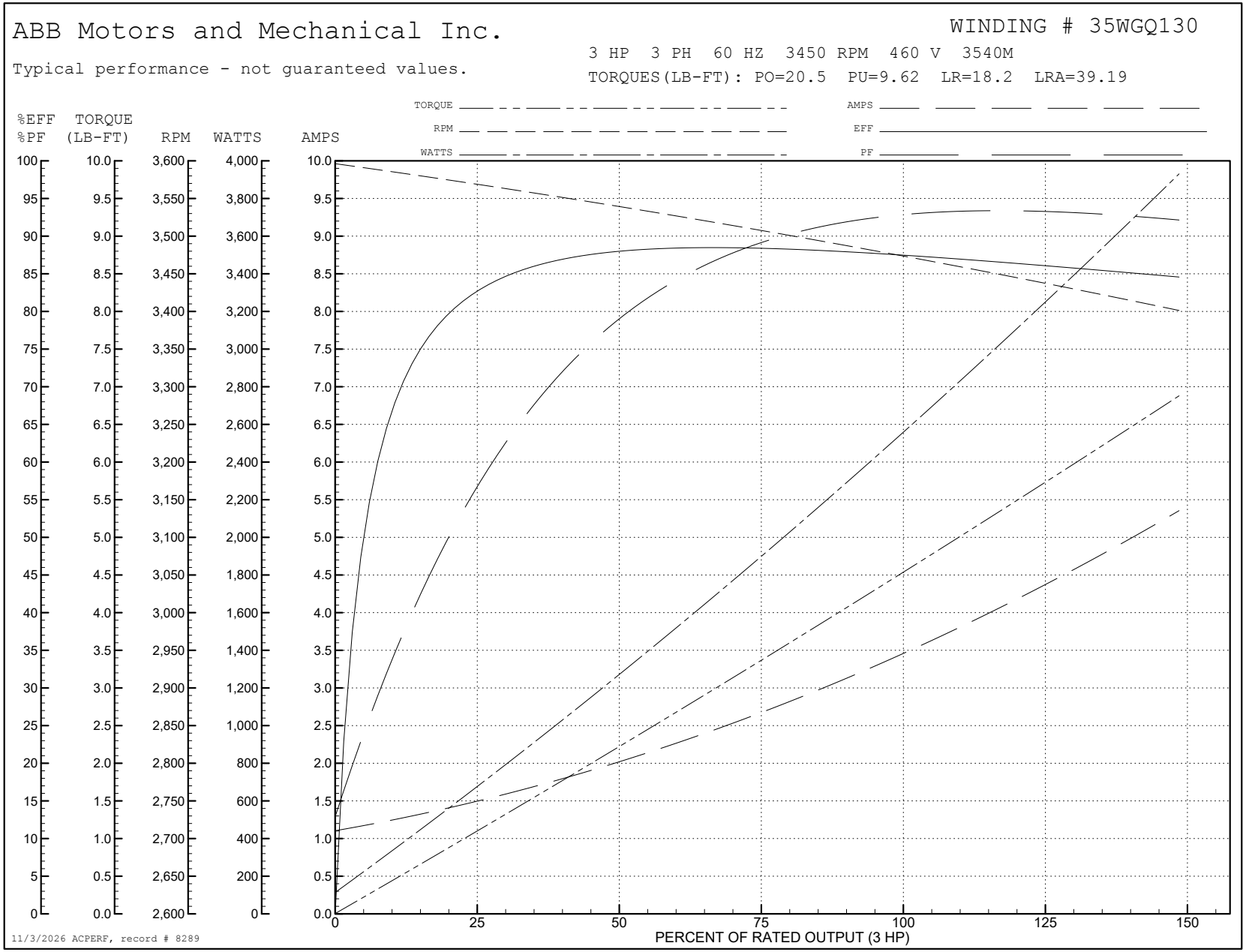
**AC Induction Motor Performance Data**
Record # 8289
Typical performance - not guaranteed values

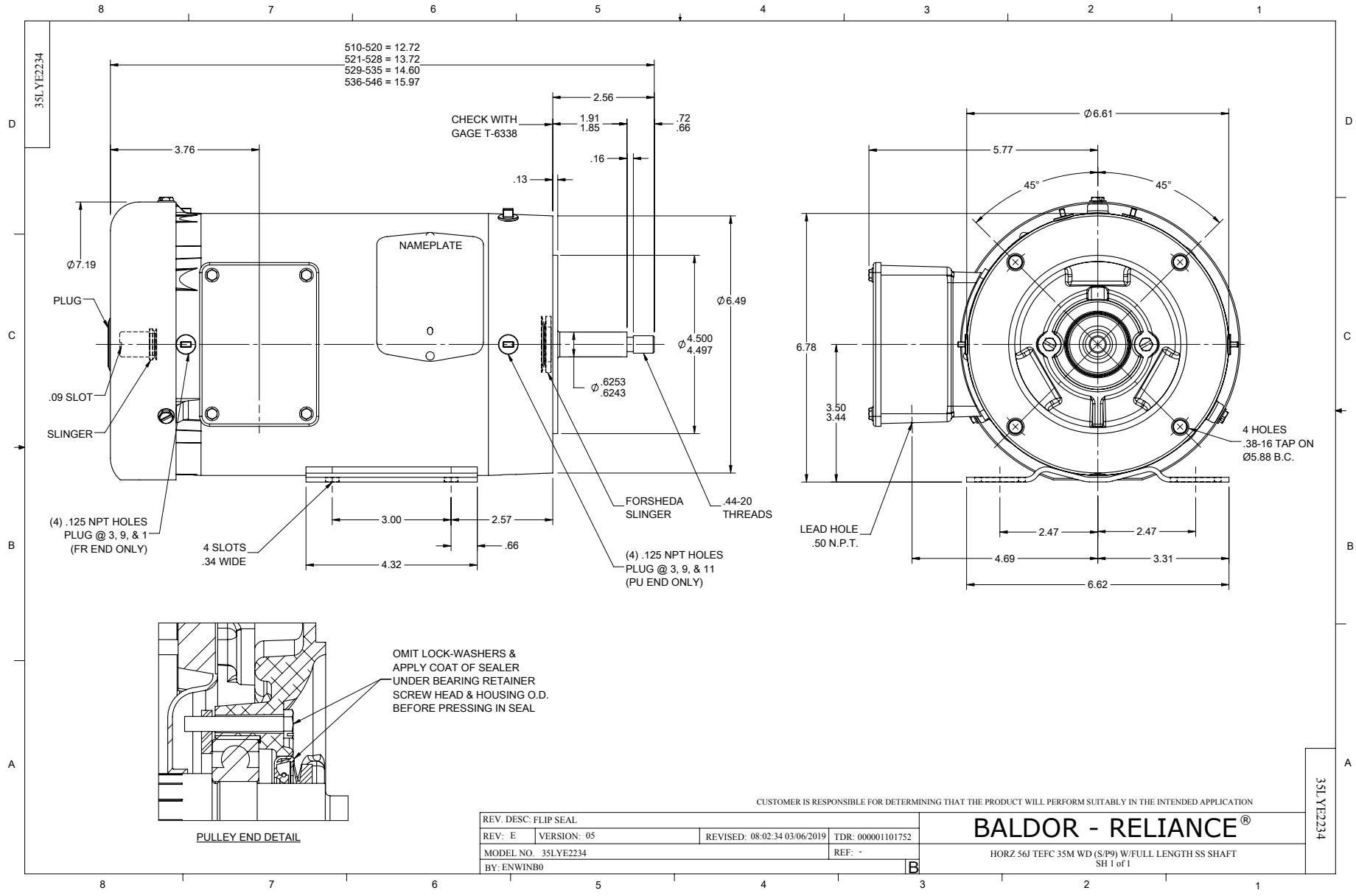
| **Winding:** 35WGQ130-R001 | **Type:** 3540M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 4.59 LB-FT |
| **Volts** | | | 208-230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.7-7/3.5 | **Breakdown Torque** | 20.5 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 9.62 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 18.2 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | M | **Starting Current** | 39.19 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.14 A |
| **NEMA Nom. Eff.** | 87.5 | **Power Factor** | 92 | **Line-line Res. @ 25ºC** | 4.032 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 58°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 71°C |
| | | | | **Locked-rotor Power Factor** | 44 |
| | | | | **Rotor inertia** | 0.111 LB-FT2 |

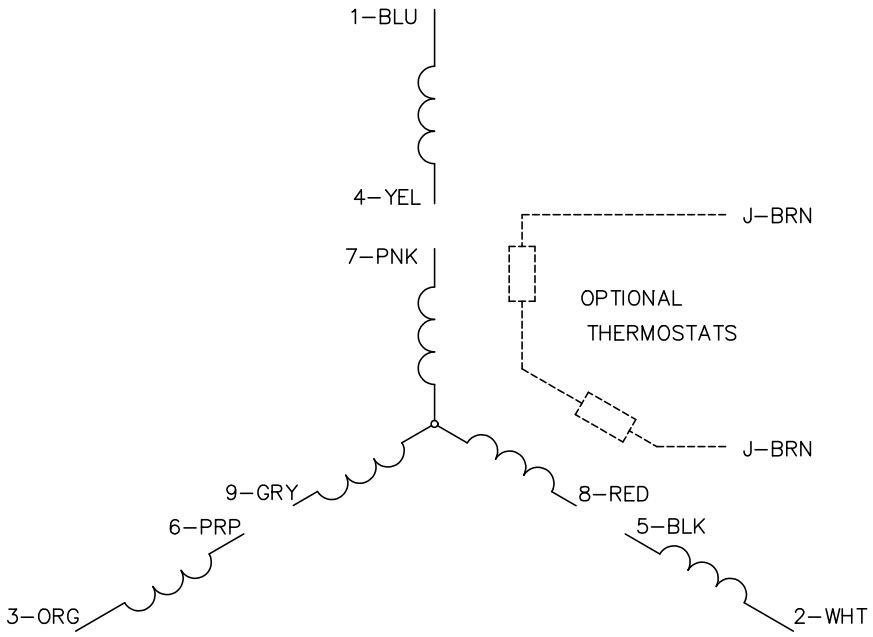
**Load Characteristics 460 V, 60 Hz, 3 HP**

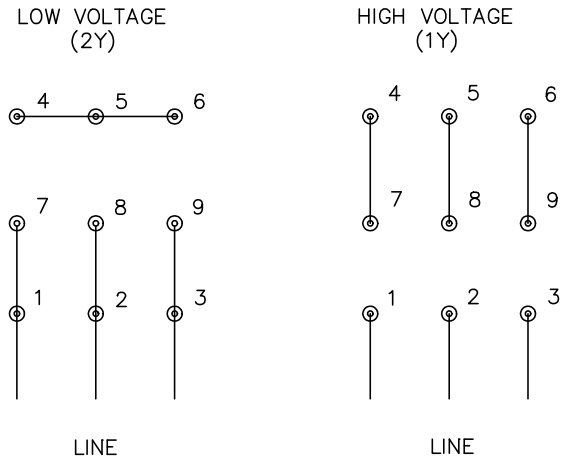
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 60 | 81 | 88 | 92 | 94 | 93 | 93 |
| **Efficiency** | 82.6 | 87.7 | 88.3 | 87.6 | 86.3 | 84.4 | 86.8 |
| **Speed** | 3564 | 3536 | 3506 | 3474 | 3439 | 3399 | 3453 |
| **Line amperes** | 1.46 | 2.04 | 2.74 | 3.53 | 4.38 | 5.34 | 4.04 |


ABB Motors and Mechanical Inc.
WINDING # 35WGQ130
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 3450 RPM 460 V 3540M
TORQUES(LB-FT): PO=20.5 PU=9.62 LR=18.2 LRA=39.19
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/3/2026 ACPERF, record # 8289


35LYE2234
510-520 = 12.72
521-528 = 13.72
529-535 = 14.60
536-546 = 15.97
2.56
CHECK WITH GAGE T-6338
1.91
1.85
.72
.66
3.76
.16
.13
NAMEPLATE
Ø7.19
PLUG
Ø6.49
Ø4.500
4.497
.09 SLOT
SLINGER
Ø.6253
.6243
FORSHEDA SLINGER
.44-20 THREADS
(4) .125 NPT HOLES PLUG @ 3, 9, & 1 (FR END ONLY)
4 SLOTS .34 WIDE
3.00
2.57
.66
4.32
(4) .125 NPT HOLES PLUG @ 3, 9, & 11 (PU END ONLY)
Ø6.61
5.77
45°
45°
6.78
3.50
3.44
4 HOLES .38-16 TAP ON Ø5.88 B.C.
LEAD HOLE .50 N.P.T.
2.47
2.47
4.69
3.31
6.62
OMIT LOCK-WASHERS & APPLY COAT OF SEALER UNDER BEARING RETAINER SCREW HEAD & HOUSING O.D. BEFORE PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FLIP SEAL
REV: E
VERSION: 05
REVISED: 08:02:34 03/06/2019
TDR: 000001101752
MODEL NO. 35LYE2234
REF: -
BY: ENWINB0
B
BALDOR - RELIANCE®
HORZ 56J TEFC 35M WD (S/P9) W/FULL LENGTH SS SHAFT
SH 1 of 1
35LYE2234

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 |