ABB BALDOR RELIANCE

# Customer information packet

## CFSWDM3710T-E

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3740M, TEFC
Class - None
Division - Not Applicable

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11/4/2026 5:05:06 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 213TC |
| **Frame Material** | Stainless Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 7.500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | NEMA PREMIUM |
| | 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** | 19.000 A @ 230.0 V |
| | 9.500 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | S |
| **Type** | AC |
| **Mech. spec.** | 37Q242 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGS250 |
| **Layout** | 37LYQ242 |
| **Eff. date** | 02-11-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 08-02-2017 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 9.5 a |
| **Insulation Class** | H |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3740M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 20.68 IN |
| **Power Factor** | 81 |
| **Product Family** | WD All SS Encapsulated |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.375 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1770 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**

| NP4427AAA01 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | CFSWDM3710T-E | | | **WT** | 170 | **LBS** | | | | | | |
| **SPEC** | 37Q242S250G2 | | | **ENCL** | TEFC | | | | | | | |
| **SER #** | | | | **CC** | 010A | **IP** | 69 | | | | | |
| **HP** | 7.5 | | | **MAG CUR** | 8.8/4.4 | | | | | | | |
| **VOLTS** | 230/460 | | | | | **NEMA NOM. EFF** | 91.7 | | | | | |
| **AMPS** | 19/9.5 | | | | | **PF** | 81 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **RPM** | 1770 | | | | **MAX RPM** | 2700 | | | | | | |
| **FRAME** | 213TC | **HZ** | 60 | **CODE** | J | **CLASS** | H | | | | | |
| **SER.F.** | 1.15 | **SF AMP** | 22/11 | | | **PH** | 3 | **DES** | A | | | |
| **DE** | 6307 | | | **ODE** | 6307 | | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | | | | |
| **ID LOGO** | | **INVERTER TYPE** | | **VPWM** | | **CHP** | 60 | **TO** | 90 | 1.5:1 | | |
| **ID LOGO** | **WK2** | 0.98 | **CT** | 15 | **TO** | 60 | | 4:1 | | | | |
| **ID LOGO** | **SL HZ** | 1 | **VT** | 6 | **TO** | 60 | | 10:1 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | **QR** | | | | | | |
| **YR** | | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 23247
Typical performance - not guaranteed values

| **Winding:** 37WGS250-R001 | **Type:** 3740M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 |
| **Volts** | | | 230/460 |
| **Full Load Amps** | | | 19/9.5 |
| **R.P.M.** | | | 1770 |
| **Hz** | 60 | **Phase** | 3 |
| **NEMA Design Code** | A | **KVA Code** | J |
| **Service Factor (S.F.)** | | | 1.15 |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 81 |
| **Rating - Duty** | | | 40C AMB-CONT |
| **S.F. Amps** | | | |

| **460 V, 60 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 22.25 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 73.15 LB-FT |
| **Pull-up Torque** | 39.78 LB-FT |
| **Locked-rotor Torque** | 47.8 LB-FT |
| **Starting Current** | 74.95 A |
| **No-load Current** | 4.39 A |
| **Line-line Res. @ 25ºC** | 1.33 Ω |
| **Temp. Rise @ Rated Load** | 69°C |
| **Temp. Rise @ S.F. Load** | 84°C |
| **Locked-rotor Power Factor** | 37 |
| **Rotor inertia** | 0.984 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 42 | 64 | 75 | 81 | 83 | 85 | 82 |
| **Efficiency** | 86.5 | 90.9 | 92 | 91.7 | 90.8 | 89.7 | 91.4 |
| **Speed** | 1793 | 1786 | 1779 | 1771 | 1761 | 1751 | 1764 |
| **Line amperes** | 4.89 | 6.02 | 7.67 | 9.49 | 11.62 | 13.88 | 10.7 |

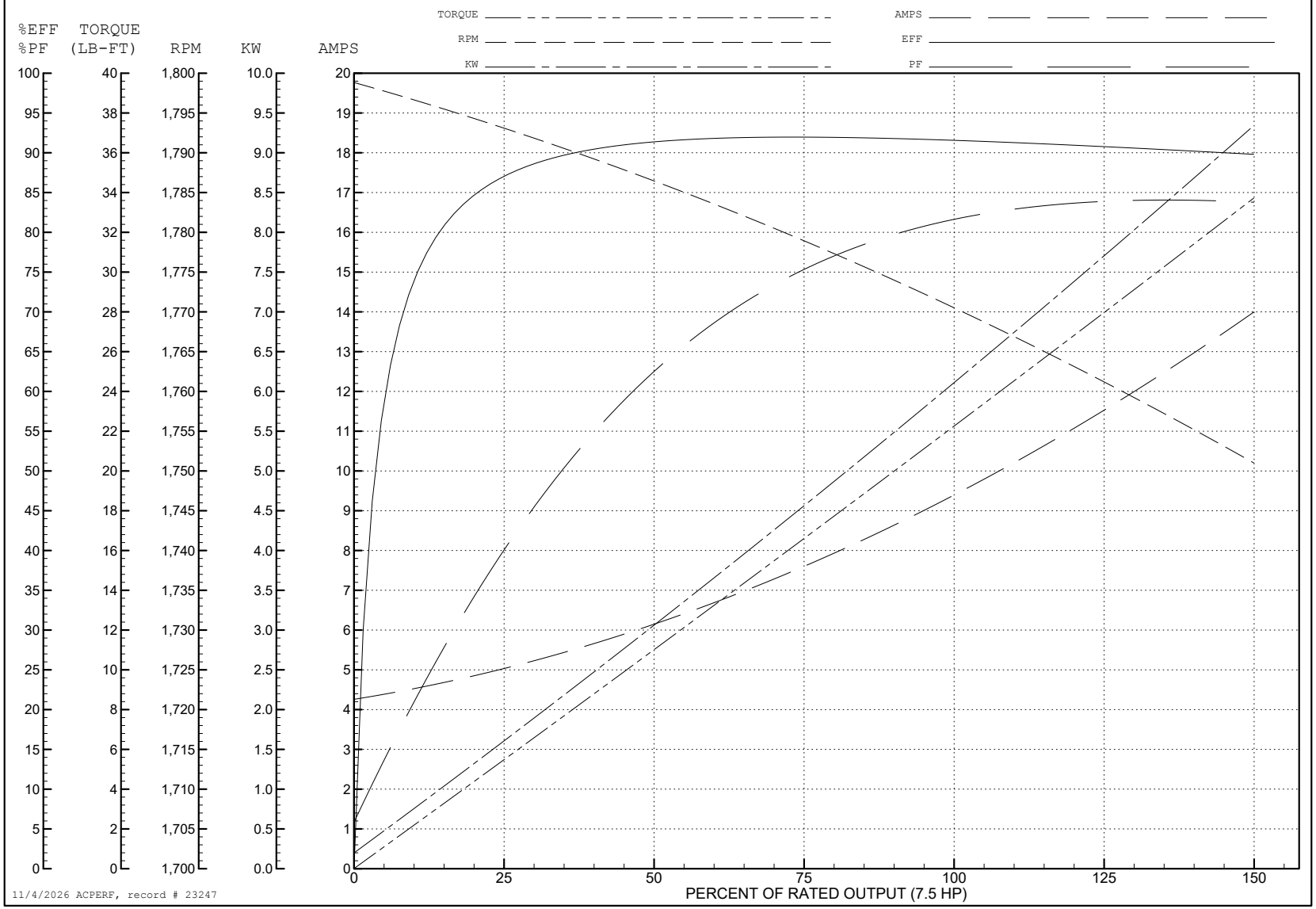
ABB Motors and Mechanical Inc.

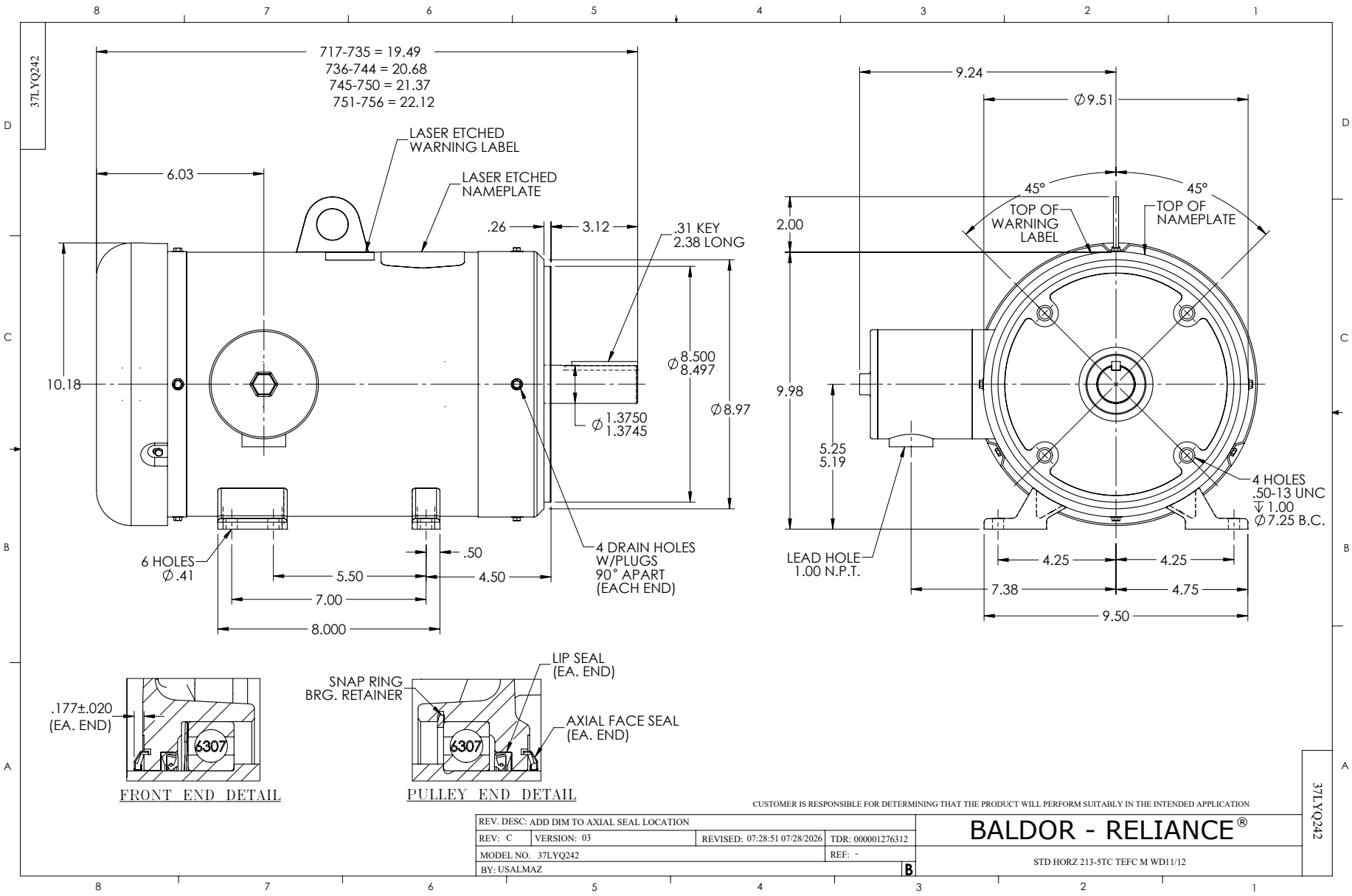
WINDING # 37WGS250

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3740M

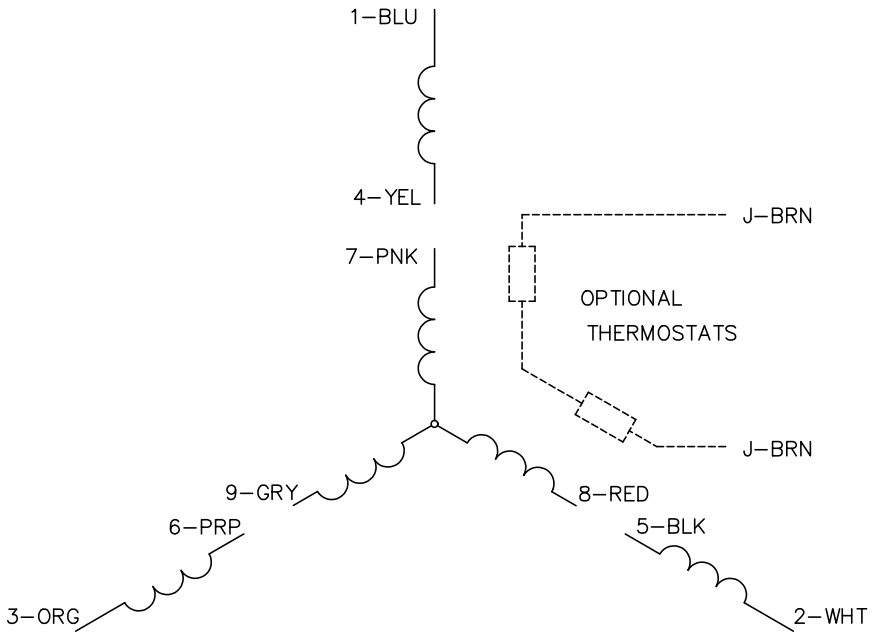
Typical performance - not guaranteed values.

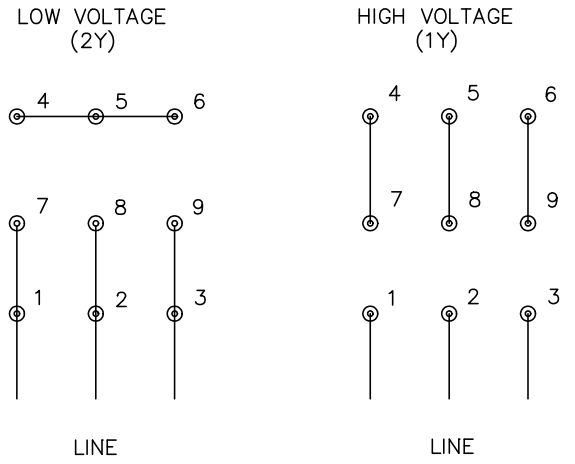
TORQUES(LB-FT): PO=73.15 PU=39.78 LR=47.8 LRA=74.95




37LYQ242
717-735 = 19.49
736-744 = 20.68
745-750 = 21.37
751-756 = 22.12
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
6.03
.26
3.12
.31 KEY 2.38 LONG
10.18
Ø8.500 8.497
Ø8.97
Ø1.3750 1.3745
6 HOLES Ø.41
.50
5.50
4.50
7.00
8.000
4 DRAIN HOLES W/PLUGS 90° APART (EACH END)
9.24
Ø9.51
45°
45°
TOP OF WARNING LABEL
TOP OF NAMEPLATE
2.00
9.98
5.25
5.19
LEAD HOLE 1.00 N.P.T.
4 HOLES .50-13 UNC ↧1.00 Ø7.25 B.C.
4.25
4.25
7.38
4.75
9.50
.177±.020 (EA. END)
6307
FRONT END DETAIL
SNAP RING BRG. RETAINER
LIP SEAL (EA. END)
AXIAL FACE SEAL (EA. END)
6307
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: C
VERSION: 03
REVISED: 07:28:51 07/28/2026
TDR: 000001276312
MODEL NO. 37LYQ242
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC M WD11/12
37LYQ242

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 |