ABB BALDOR RELIANCE

# Customer information packet

## CDRX181564T

1.5HP, 1170//970RPM, 3PH, 60/50HZ, 182TC, XPF
Class - CLI GP C,D
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 182TC |
| **Frame Material** | Iron |
| **Frequency** | 50.00 Hz |
| | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP C,D |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 1.500 HP @ 60 HZ |
| | 1.000 HP @ 50 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 190.0 V @ 50 HZ |
| | 230.0 V @ 60 HZ |
| | 380.0 V @ 50 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** | 2.297 A @ 380.0 V |
| | 2.500 A @ 460.0 V |
| | 4.400 A @ 190.0 V |
| | 5.000 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |

## Part Detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 06WGW969 |
| **Layout** | 06LYH515 |
| **Eff. date** | 05-23-2023 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 06-21-2019 |

| | |
|---|---|
| **Efficiency @ 100% Load** | 87.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.3 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **IP Rating** | NONE |
| **KVA Code** | K |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 1800 rpm |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0630M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 18.31 IN |
| **Power Factor** | 65 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS NON-COMPLIANT |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 1170 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**

| NP1401XPSLEV | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | | | | **CC** | 010A | | | | | | |
| **S/N** | | | | **TEMP CODE** | T3C | | | | | | |
| **SPEC.** | 06-0000-0139 | | | **INV.TYPE** | PWM | | | | | | |
| **CAT.NO.** | CDRX181564T | | | **C HP FR** | 60 | **C HP TO** | 90 | | | | |
| **HP** | 1.5//1 | | | **CT HZ FROM** | 6 | | | **CT HZ TO** | 60 | | |
| **VOLTS** | 230/460//190/380 | | | **VT HZ FROM** | 6 | | | **VT HZ TO** | 60 | | |
| **AMPS** | 5/2.5//4.4/2.297 | | | **MAG CUR** | 3/1.5 | | | | | | |
| **RPM** | 1170//970 | | | **MX RPM** | 1800 | | | | | | |
| **HZ** | 60//50 | **PH** | 3 | **CL** | F | **NOM.EFF.** | 87.5 | | | | |
| **SER.F.** | 1.00 | **DES** | B | **SL HZ** | 1.5 | **WK2** | 0.282 | | | | |
| **FRAME** | 182TC | **RATING** | 40C AMB-CONT | | | | | | | | |
| | 55C AMB @ 1.0 SF | | | | | | | | | | |
| | 1.15 SF SINEWAVE | | | | NEMA MG-1 PT 5,IP55 | | | | | | |

**AC Induction Motor Performance Data**
Record # 75917
Typical performance - not guaranteed values

| **Winding:** 06WGW969-R007 | **Type:** 0630M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Speed Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1.5//1 | **Full Load Torque** | 6.76 LB-FT |
| **Volts** | | | 230/460//190/380 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5/2.5//4.4/2.2970 | **Breakdown Torque** | 23.83 LB-FT |
| **R.P.M.** | | | 1170 | **Pull-up Torque** | 12.5 LB-FT |
| **Hz** | 60//50 | **Phase** | 3 | **Locked-rotor Torque** | 15.8 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 16.19 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 1.63 A |
| **NEMA Nom. Eff.** | 87.5 | **Power Factor** | 65 | **Line-line Res. @ 25ºC** | 7.01 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 27°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 31°C |
| | | | | **Locked-rotor Power Factor** | 30.4 |
| | | | | **Rotor inertia** | 0.282 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 29 | 45 | 57 | 65 | 70 | 73 |
| **Efficiency** | 71.5 | 81.5 | 84.5 | 85.7 | 85.6 | 84.5 |
| **Speed** | 1193 | 1186 | 1179 | 1171 | 1163 | 1152 |
| **Line amperes** | 1.71 | 1.92 | 2.21 | 2.54 | 2.95 | 3.42 |

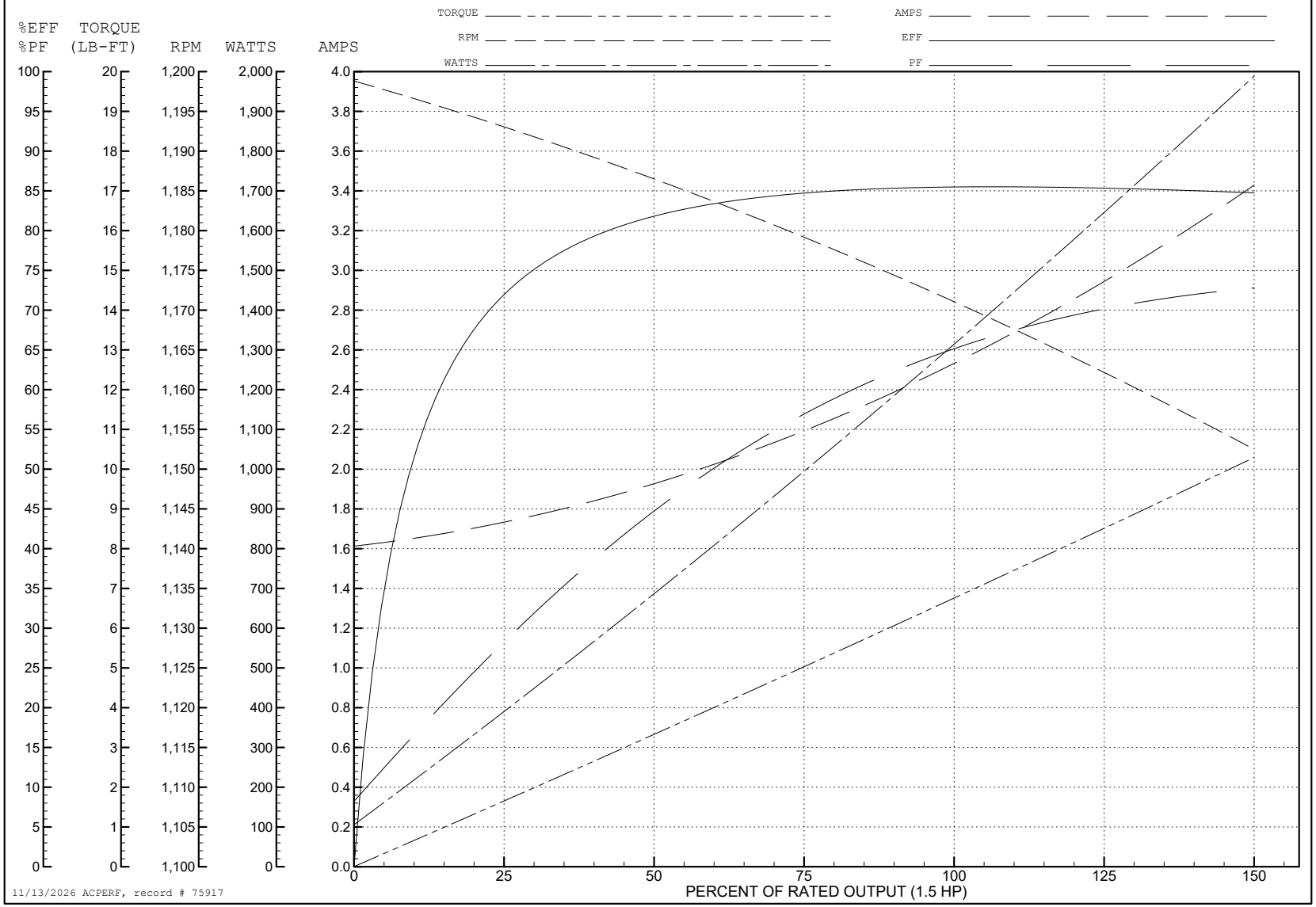
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WINDING # 06WGW969

1.5 HP 3 PH 60 HZ 1170 RPM 460 V 0630M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=23.83 PU=12.5 LR=15.8 LRA=16.19



**AC Induction Motor Performance Data**
Record # 75918
Typical performance - not guaranteed values

| **Winding:** 06WGW969-R007 | **Type:** 0630M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 1.5//1 |
| **Volts** | | | 230/460//190/380 |
| **Full Load Amps** | | | 5/2.5//4.4/2.2970 |
| **R.P.M.** | | | 1170 |
| **Hz** | 60//50 | **Phase** | 3 |
| **NEMA Design Code** | B | **KVA Code** | K |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 87.5 | **Power Factor** | 65 |
| **Rating - Duty** | | | 40C AMB-CONT |

| **380 V, 50 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 5.42 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 22.86 LB-FT |
| **Pull-up Torque** | 13.14 LB-FT |
| **Locked-rotor Torque** | 16.61 LB-FT |
| **Starting Current** | 15.76 A |
| **No-load Current** | 1.61 A |
| **Line-line Res. @ 25ºC** | 7.01 Ω |
| **Temp. Rise @ Rated Load** | 21°C |
| **Locked-rotor Power Factor** | 34.4 |
| **Rotor inertia** | 0.282 LB-FT2 |

**Load Characteristics 380 V, 50 Hz, 1 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 25 | 40 | 51 | 60 | 66 | 71 |
| **Efficiency** | 68.3 | 79.4 | 83.2 | 84.8 | 84.9 | 84.1 |
| **Speed** | 994 | 989 | 983 | 977 | 970 | 962 |
| **Line amperes** | 1.66 | 1.81 | 2.01 | 2.24 | 2.54 | 2.87 |

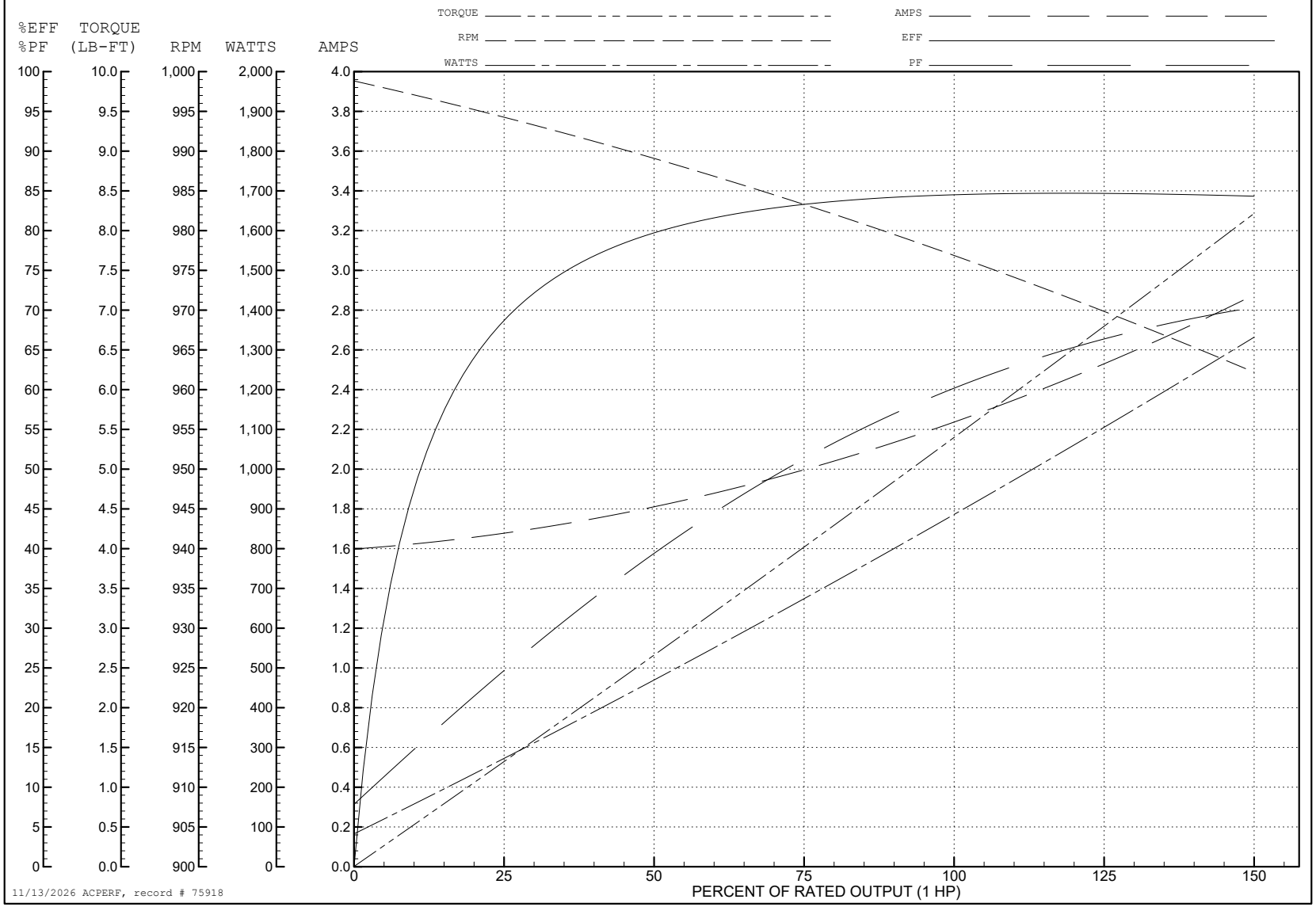
ABB Motors and Mechanical Inc.

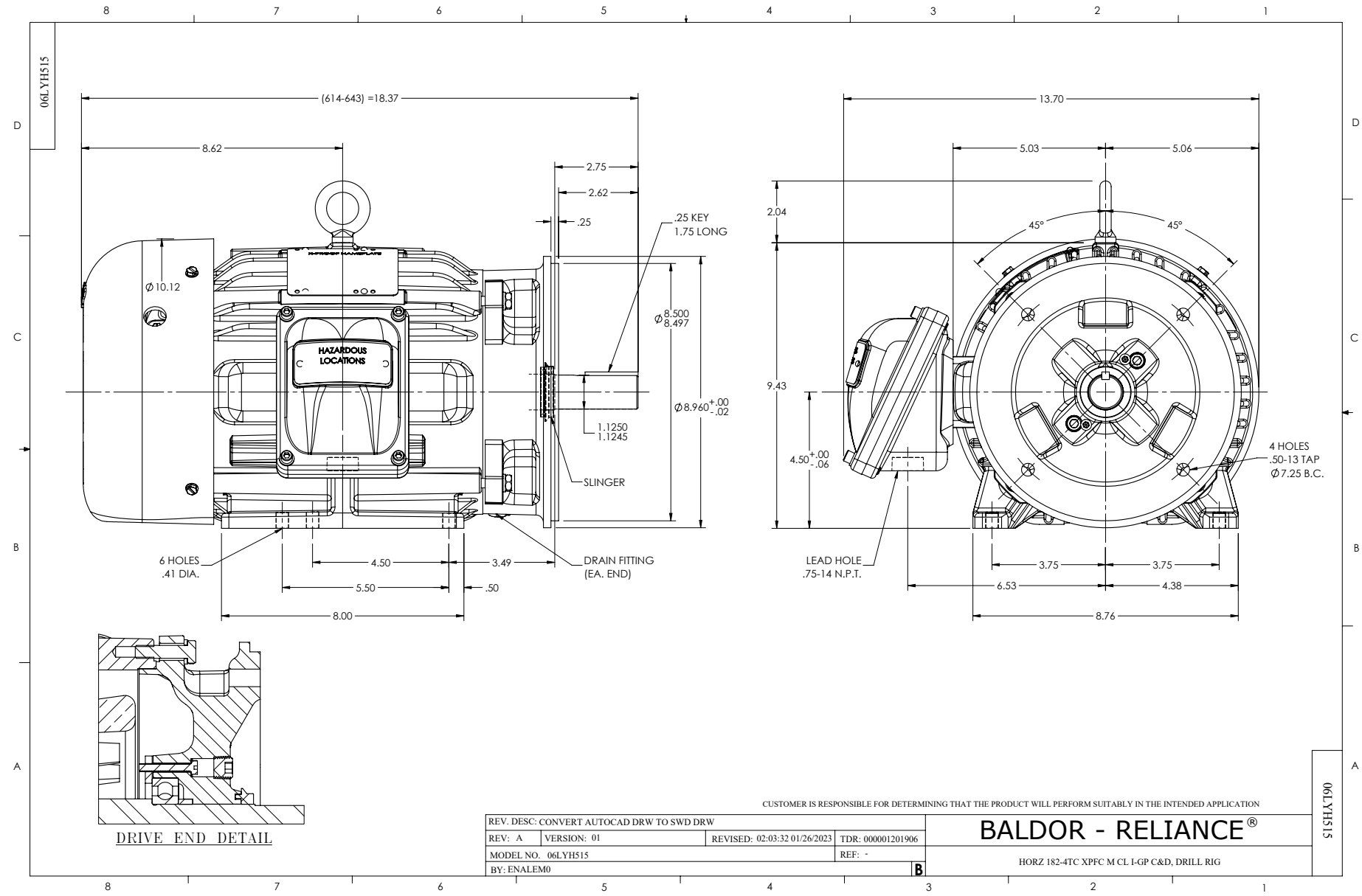
WINDING # 06WGW969

1 HP 3 PH 50 HZ 1170 RPM 380 V 0630M

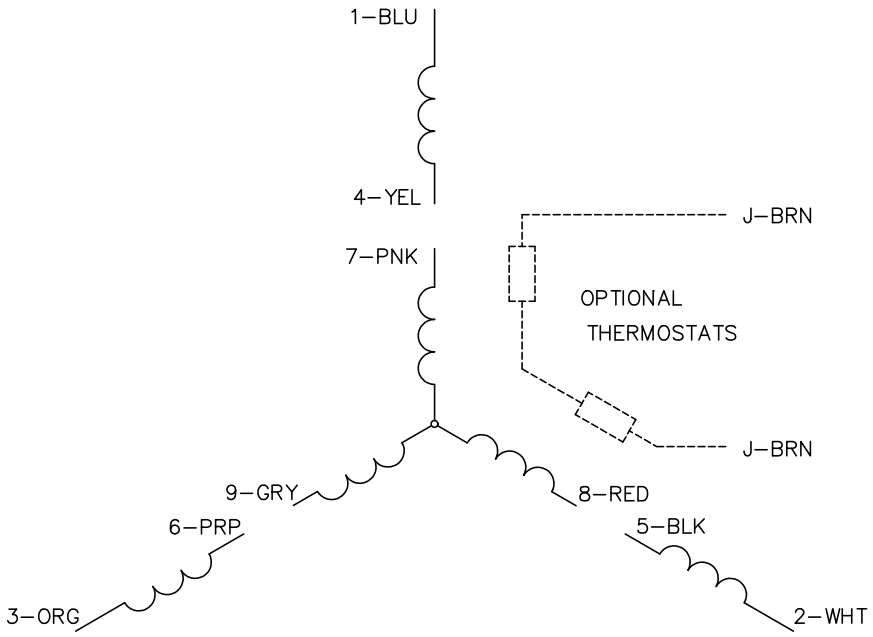
Typical performance - not guaranteed values.

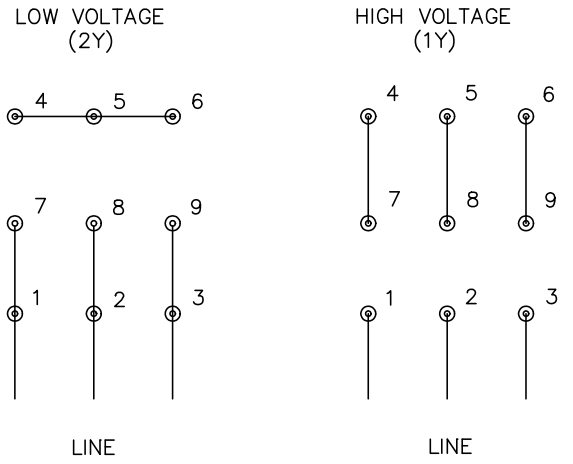
TORQUES(LB-FT): PO=22.86 PU=13.14 LR=16.61 LRA=15.76




06LYH515
(614-643) =18.37
8.62
2.75
2.62
.25
.25 KEY
1.75 LONG
Ø10.12
Ø8.500
8.497
HAZARDOUS
LOCATIONS
Ø8.960 +.00 -.02
1.1250
1.1245
SLINGER
6 HOLES
.41 DIA.
4.50
3.49
5.50
.50
8.00
DRAIN FITTING
(EA. END)
13.70
5.03
5.06
2.04
45°
45°
9.43
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75-14 N.P.T.
3.75
3.75
6.53
4.38
8.76
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: A
VERSION: 01
REVISED: 02:03:32 01/26/2023
TDR: 000001201906
MODEL NO. 06LYH515
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4TC XPFC M CL I-GP C&D, DRILL RIG
06LYH515

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 |