ABB BALDOR RELIANCE

# Customer information packet

## JPDRX18544T

5HP, 1750//1450RPM, 3PH, 60/50HZ, 184JP, XPFC
Class - CLI GP C,D
Division - Division I

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11/17/2026 1:45:30 AM

## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 184JP |
| **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** | 5.000 HP @ 60 HZ |
| | 3.000 HP @ 50 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 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** | 10.200 A @ 190.0 V |
| | 13.200 A @ 230.0 V |
| | 5.100 A @ 380.0 V |
| | 6.600 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 06WGY545 |
| **Layout** | 06LYH458 |
| **Eff. date** | 02-28-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 08-02-2019 |

| | |
|---|---|
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 5.1 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **IP Rating** | NONE |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0642M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Power Factor** | 81 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **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 |
| **Speed** | 1750 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.** | 06-0000-0195 | | | **INV.TYPE** | PWM | | | | | | |
| **CAT.NO.** | JPDRX18544T | | | **C HP FR** | 60 | **C HP TO** | 90 | | | | |
| **HP** | 5//3 | | | **CT HZ FROM** | 6 | | | **CT HZ TO** | 60 | | |
| **VOLTS** | 230/460//190/380 | | | **VT HZ FROM** | 6 | | | **VT HZ TO** | 60 | | |
| **AMPS** | 13.2/6.6//10.2/5.1 | | | **MAG CUR** | 6/3 | | | | | | |
| **RPM** | 1750//1450 | | | **MX RPM** | 2700 | | | | | | |
| **HZ** | 60//50 | **PH** | 3 | **CL** | F | **NOM.EFF.** | 89.5 | | | | |
| **SER.F.** | 1.00 | **DES** | B | **SL HZ** | 1.7 | **WK2** | 0.39 | | | | |
| **FRAME** | 184JP | **RATING** | 40C AMB-CONT | | | | | | | | |
| | 55C AMB @ 1.0 SF | | | | | | | | | | |
| | 1.15 SF ON SINEWAVE | | | | NEMA MG-1 PT 5,IP55 | | | | | | |

**AC Induction Motor Performance Data**
Record # 72834
Typical performance - not guaranteed values

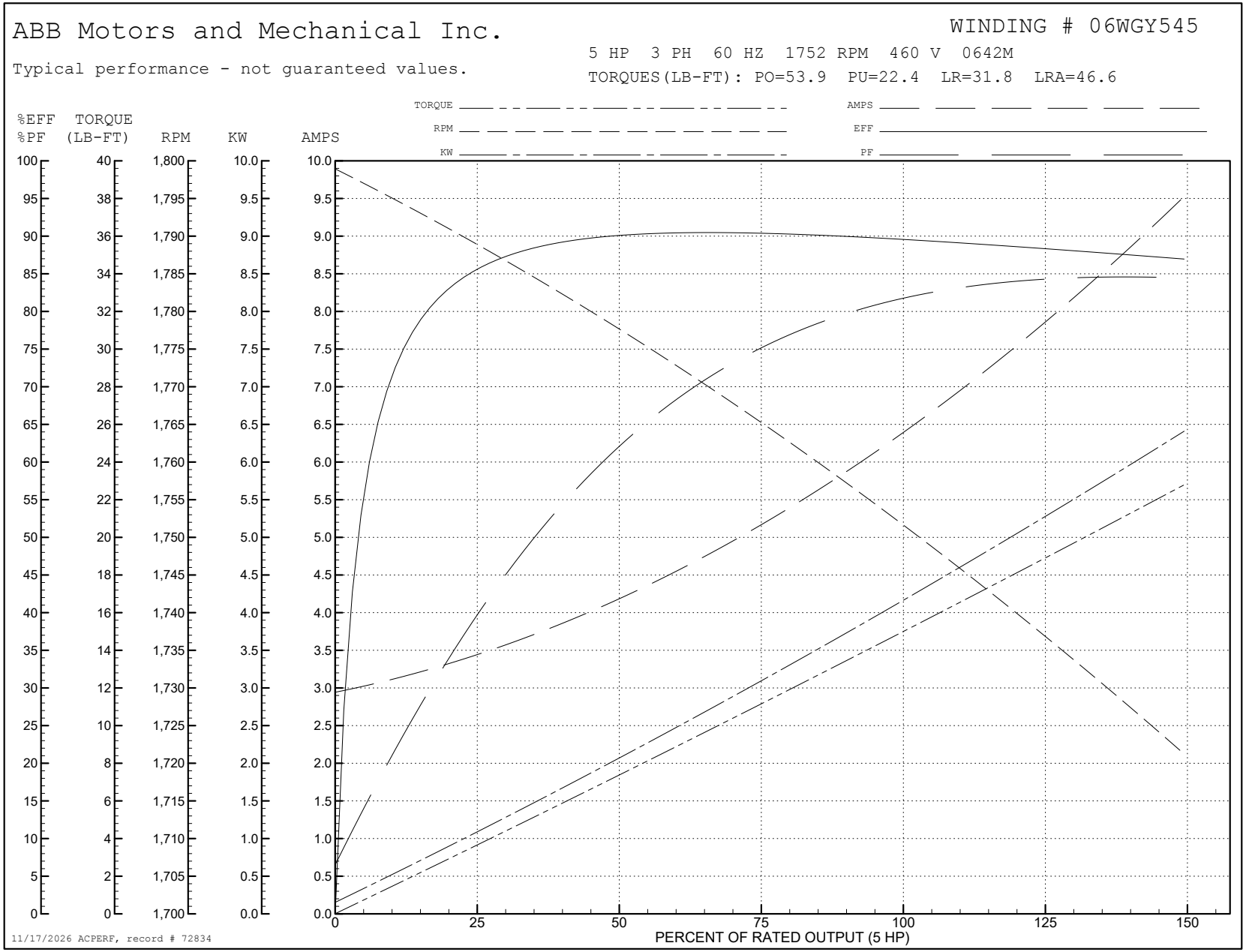
| **Winding:** 06WGY545-R005 | **Type:** 0642M | **Enclosure:** XPFC |
|---|---|---|

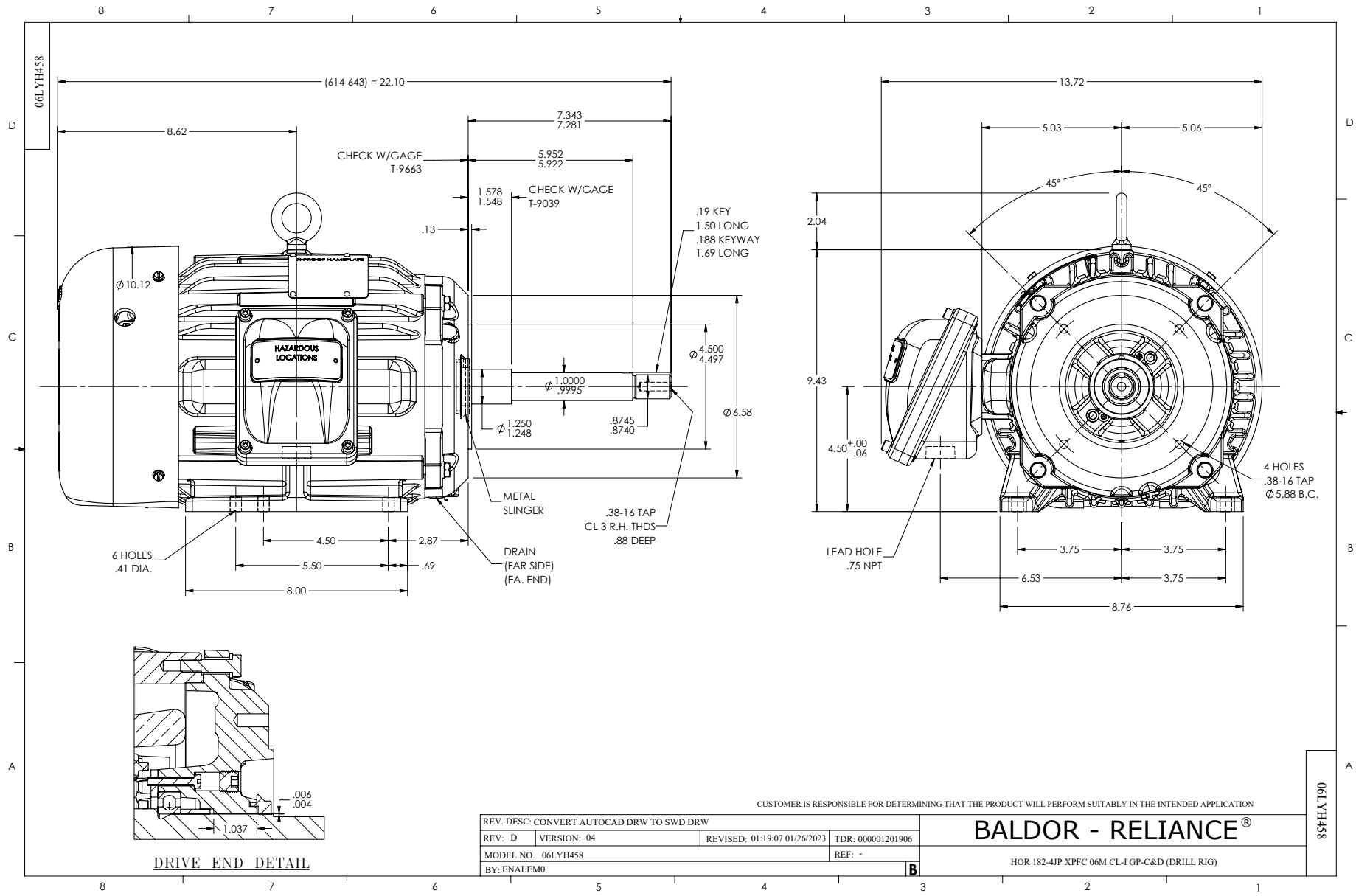
| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 5//3 |
| **Volts** | | | 230/460//190/380 |
| **Full Load Amps** | | | 13.2/6.6//10.2/5.1 |
| **R.P.M.** | | | 1750//1450 |
| **Hz** | 60//50 | **Phase** | 3 |
| **NEMA Design Code** | B | **KVA Code** | J |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 79 |
| **Rating - Duty** | | | 40C AMB-CONT |

| **460 V, 60 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 15 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 53.9 LB-FT |
| **Pull-up Torque** | 22.4 LB-FT |
| **Locked-rotor Torque** | 31.8 LB-FT |
| **Starting Current** | 46.6 A |
| **No-load Current** | 3.02 A |
| **Line-line Res. @ 25ºC** | 2.63 Ω |
| **Temp. Rise @ Rated Load** | 53°C |
| **Locked-rotor Power Factor** | 40.5 |
| **Rotor inertia** | 0.391 LB-FT2 |

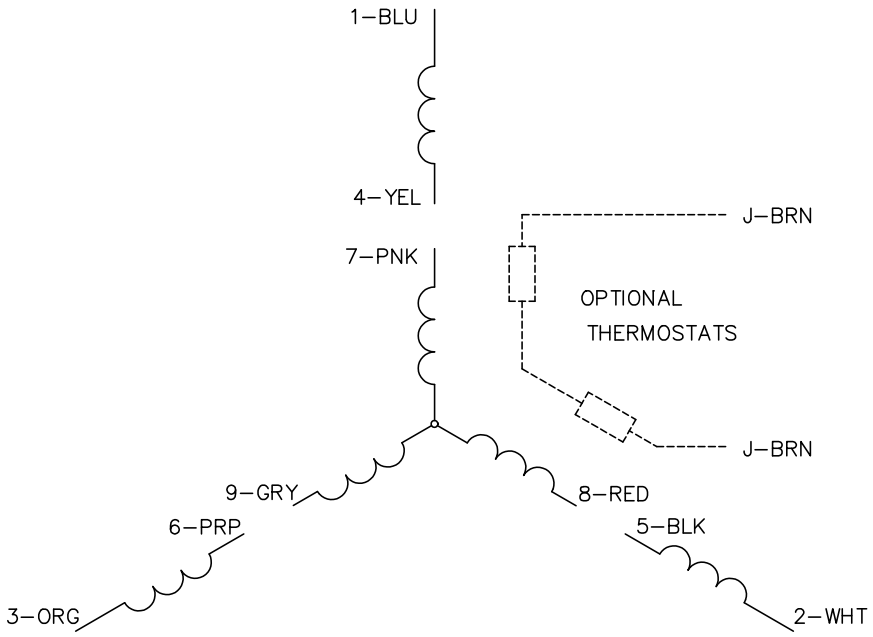
**Load Characteristics 460 V, 60 Hz, 5 HP**

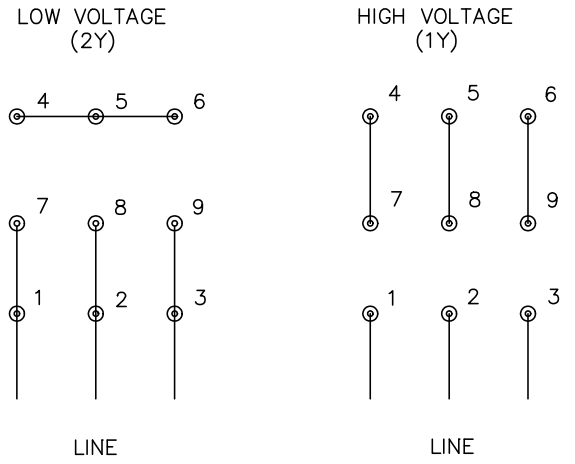
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 41 | 63 | 75 | 81 | 84 | 85 |
| **Efficiency** | 85.1 | 89.7 | 90.3 | 89.8 | 88.4 | 86.8 |
| **Speed** | 1789 | 1777 | 1765 | 1752 | 1737 | 1721 |
| **Line amperes** | 3.35 | 4.14 | 5.21 | 6.45 | 7.91 | 9.47 |


ABB Motors and Mechanical Inc.
WINDING # 06WGY545
5 HP 3 PH 60 HZ 1752 RPM 460 V 0642M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/17/2026 ACPERF, record # 72834


06LYH458
(614-643) = 22.10
8.62
7.343
7.281
CHECK W/GAGE
T-9663
5.952
5.922
1.578
1.548
CHECK W/GAGE
T-9039
.13
.19 KEY
1.50 LONG
.188 KEYWAY
1.69 LONG
Ø10.12
HAZARDOUS LOCATIONS
Ø4.500
4.497
Ø1.0000
.9995
Ø1.250
1.248
.8745
.8740
Ø6.58
METAL
SLINGER
.38-16 TAP
CL 3 R.H. THDS
.88 DEEP
6 HOLES
.41 DIA.
4.50
2.87
5.50
.69
8.00
DRAIN
(FAR SIDE)
(EA. END)
13.72
5.03
5.06
45°
45°
2.04
9.43
4.50 +.00 -.06
4 HOLES
.38-16 TAP
Ø5.88 B.C.
LEAD HOLE
.75 NPT
3.75
3.75
6.53
3.75
8.76
.006
.004
1.037
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: D
VERSION: 04
REVISED: 01:19:07 01/26/2023
TDR: 000001201906
MODEL NO. 06LYH458
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 182-4JP XPFC 06M CL-I GP-C&D (DRILL RIG)
06LYH458

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 |