ABB BALDOR RELIANCE

# Customer information packet

## CECP3581T

1HP, 1770RPM, 3PH, 60HZ, 143TC, 0522M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 143TC |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP A,B,C,D |
| **Haz Area Division** | Division II |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 1.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| | 208.0 V @ 60 HZ |
| **Agency Approvals** | CCSA US |
| | CSA EEV |
| | NEMA PREMIUM |
| | 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 |
| **Constant Torque Speed Range** | 1.2 |
| **Current @ Voltage** | 3.400 A @ 230.0 V |
| | 3.300 A @ 208.0 V |
| | 3.200 A @ 208.0 V |
| | 1.700 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | 05F007 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 05WGX903 |
| **Layout** | 05LYF007 |
| **Eff. date** | 08-25-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 Y |
| **Proprietary** | False |
| **Created date** | 07-21-2022 |

| | |
|---|---|
| **Efficiency @ 100% Load** | 85.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T4 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 1.7 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | N |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0522M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 13.38 IN |
| **Power Factor** | 69 |
| **Product Family** | Chemical Processing (Not DC) |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft 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**

| NP3258 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CECP3581T | | | | | | | |
| **SPEC.** | 05F007X903G1 | | | | | | | |
| **HP** | 1 TE | | | | | | | |
| **VOLTS** | 208-230/460 | | | | | | | |
| **AMP** | 3.3-3.4/1.7 | | | | | | | |
| **RPM** | 1770 | | | | | | | |
| **FRAME** | 143TC | **HZ** | 60 | | **PH** | 3 | | |
| **SER.F.** | 1.15 | **CODE** | N | **DES** | B | **CL** | F | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **SN** | | | | | | | | |
| **DE** | 6205 | **ODE** | 6205 | | | | | |
| **NEMA-NOM-EFF** | 85.5 | **PF** | 69 | | | | | |
| **G.MIN.EFF** | 82.5 | **CC** | 010A | | | | | |
| **T. CODE** | T4 | **T=** | 135 | | | | | |

| NP3261 | | | |
|---|---|---|---|
| **SPEC.** | 05F007X903G1 | | |
| **D.E. BRG.** | 25BC02XP30X | | |
| **O.D.E. BRG.** | 25BC02XP30X | | |
| **GREASE** | POLYREX EM | | |
| **RPM MAX** | 2700 | **MAX. KVAR** | 0.49 |
| **BLANK** | SFA 3.6/1.8 | | |
| **INV.TYPE** | PWM | | |
| **T=** | 135 | | |
| **C HP FR** | 60 | **C HP TO** | 90 |
| **CT HZ FROM** | 1.2 | **CT HZ TO** | 60 |
| **VT HZ FROM** | -0 | **VT HZ TO** | 60 |
| **HTR-VOLTS** | | **HTR-AMPS** | |
| **HTR-WATTS** | | **MAX. SPACE HEATER TEMP.** | |

**AC Induction Motor Performance Data**
Record # 87075
Preliminary Data Sheet

| **Winding:** 05WGX903-R001 | **Type:** 0522M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1 | **Full Load Torque** | 2.97 LB-FT |
| **Volts** | | | 208-230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 3.3-3.4/1.7 | **Breakdown Torque** | 15.85 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 9.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 10.45 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | N | **Starting Current** | 15.67 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.21 A |
| **NEMA Nom. Eff.** | 85.5 | **Power Factor** | 69 | **Line-line Res. @ 25ºC** | 14.1 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 24°C |
| **S.F. Amps** | | | 3.6/1.8 | **Temp. Rise @ S.F. Load** | 27°C |
| | | | | **Locked-rotor Power Factor** | 60.1 |
| | | | | **Rotor inertia** | 0.159 lb-ft² |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 27 | 43 | 56 | 65 | 72 | 76 | 69 |
| **Efficiency** | 70.7 | 81 | 84.4 | 85.8 | 85.9 | 85.5 | 85.9 |
| **Speed** | 1792 | 1785 | 1778 | 1771 | 1763 | 1755 | 1766 |
| **Line amperes** | 1.23 | 1.34 | 1.49 | 1.68 | 1.89 | 2.15 | 1.81 |

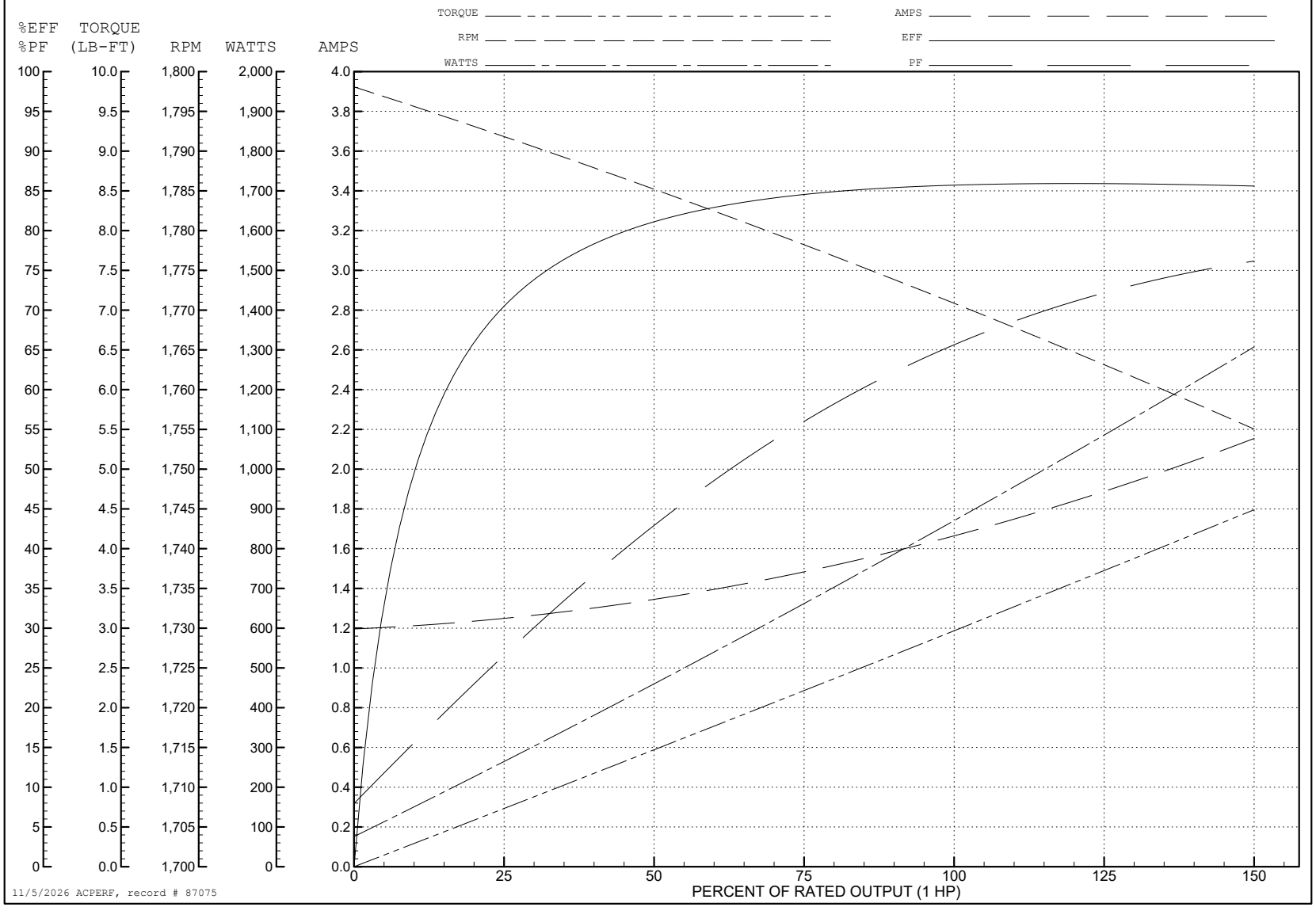
ABB Motors and Mechanical Inc.

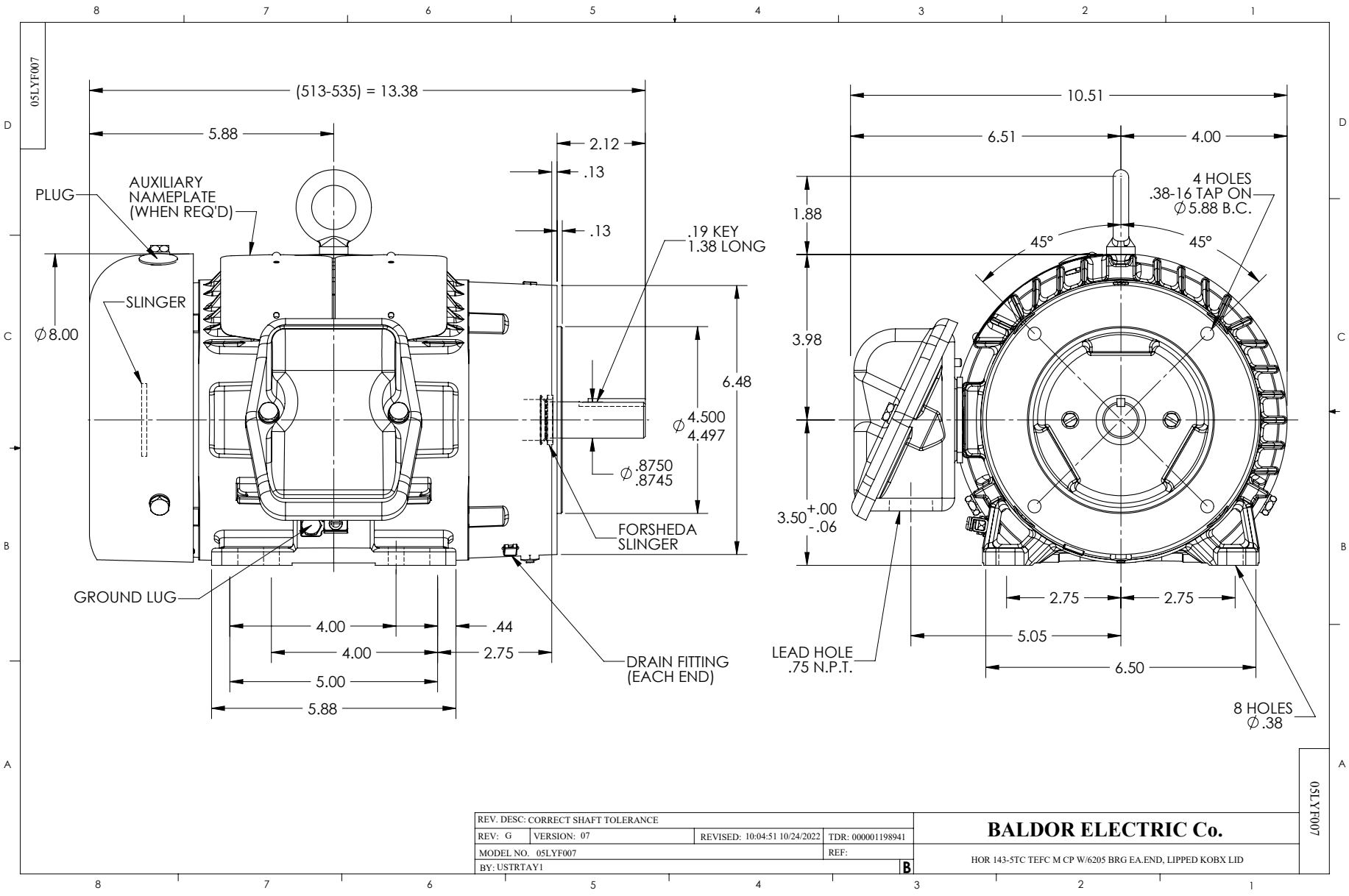
WINDING # 05WGX903

1 HP 3 PH 60 HZ 1770 RPM 460 V 0522M

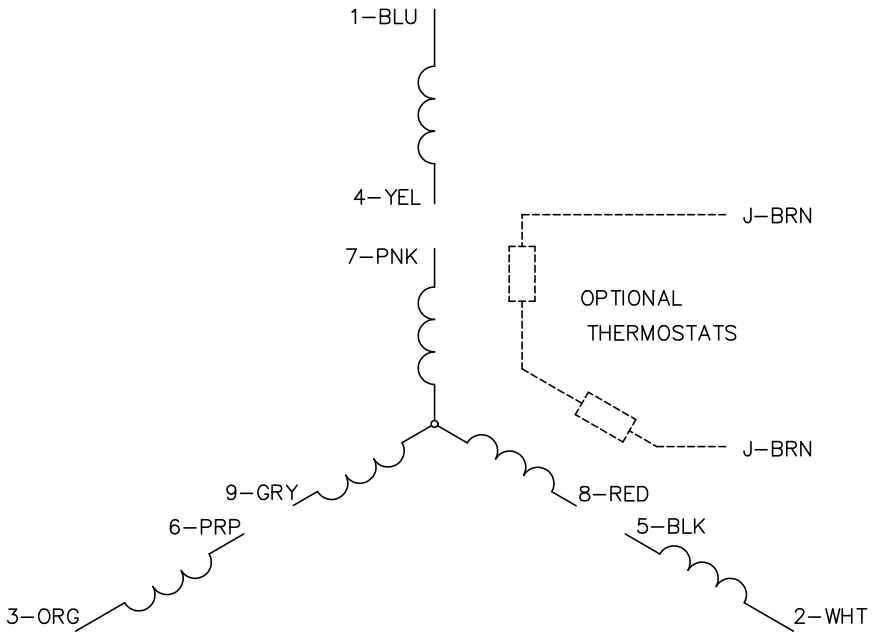
Typical performance - not guaranteed values.

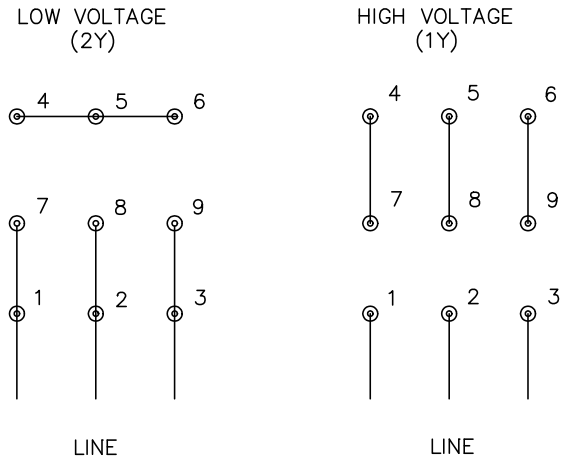
TORQUES(LB-FT): PO=15.85 PU=9.1 LR=10.45 LRA=15.67




05LYF007
(513-535) = 13.38
5.88
2.12
.13
.13
.19 KEY
1.38 LONG
PLUG
AUXILIARY
NAMEPLATE
(WHEN REQ'D)
SLINGER
∅8.00
6.48
∅4.500
4.497
∅.8750
.8745
FORSHEDA
SLINGER
GROUND LUG
4.00
.44
4.00
2.75
5.00
5.88
DRAIN FITTING
(EACH END)
10.51
6.51
4.00
4 HOLES
.38-16 TAP ON
∅5.88 B.C.
1.88
45°
45°
3.98
3.50 +.00 -.06
LEAD HOLE
.75 N.P.T.
2.75
2.75
5.05
6.50
8 HOLES
∅.38
REV. DESC: CORRECT SHAFT TOLERANCE
REV: G
VERSION: 07
REVISED: 10:04:51 10/24/2022
TDR: 000001198941
MODEL NO. 05LYF007
REF:
BY: USTRTAY1
B
BALDOR ELECTRIC Co.
HOR 143-5TC TEFC M CP W/6205 BRG EA.END, LIPPED KOBX LID
05LYF007

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 |