ABB BALDOR RELIANCE

# Customer information packet

## EM3764T

3HP, 1165RPM, 3PH, 60HZ, 213T, 0736M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 213T |
| **Frame Material** | Iron |
| **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** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | NEMA PREMIUM |
| | NEMA PREMIUM (OLD LOGO) |
| **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** | 9.000 A @ 208.0 V |
| | 9.000 A @ 230.0 V |
| | 4.500 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | V |
| **Type** | AC |
| **Mech. spec.** | 07H002 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 07WGX970 |
| **Layout** | 07LYH002 |
| **Eff. date** | 04-29-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 06-19-2010 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 4.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | K |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No 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** | 0736M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 18.45 IN |
| **Power Factor** | 71 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **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** | 1165 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**

| NP3441LUA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EM3764T | | | | | | | | | |
| **SPEC** | 07H002X970G1 | | | | | | | | | |
| **HP** | 3 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMPS** | 9/4.5 | | | | | | | | | |
| **RPM** | 1165 | | | | | | | | | |
| **FRAME** | 213T | **HZ** | 60 | | **PH** | 3 | | | | |
| **SF** | 1.15 | **CODE** | K | **DES** | B | **CLASS** | F | | | |
| **NEMA NOM. EFF** | 89.5 | **PF** | 71 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | |
| **DE** | 6307 | **ODE** | 6206 | | | | | | | |
| **VPWM INVERTER READY** | SFA 9.8/4.9 | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |
| | 50Hz 3HP 190/380V 10.4/5.2A | | | | | | | | | SF1.0 |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 37-1304 | C FACE KIT | A8 |

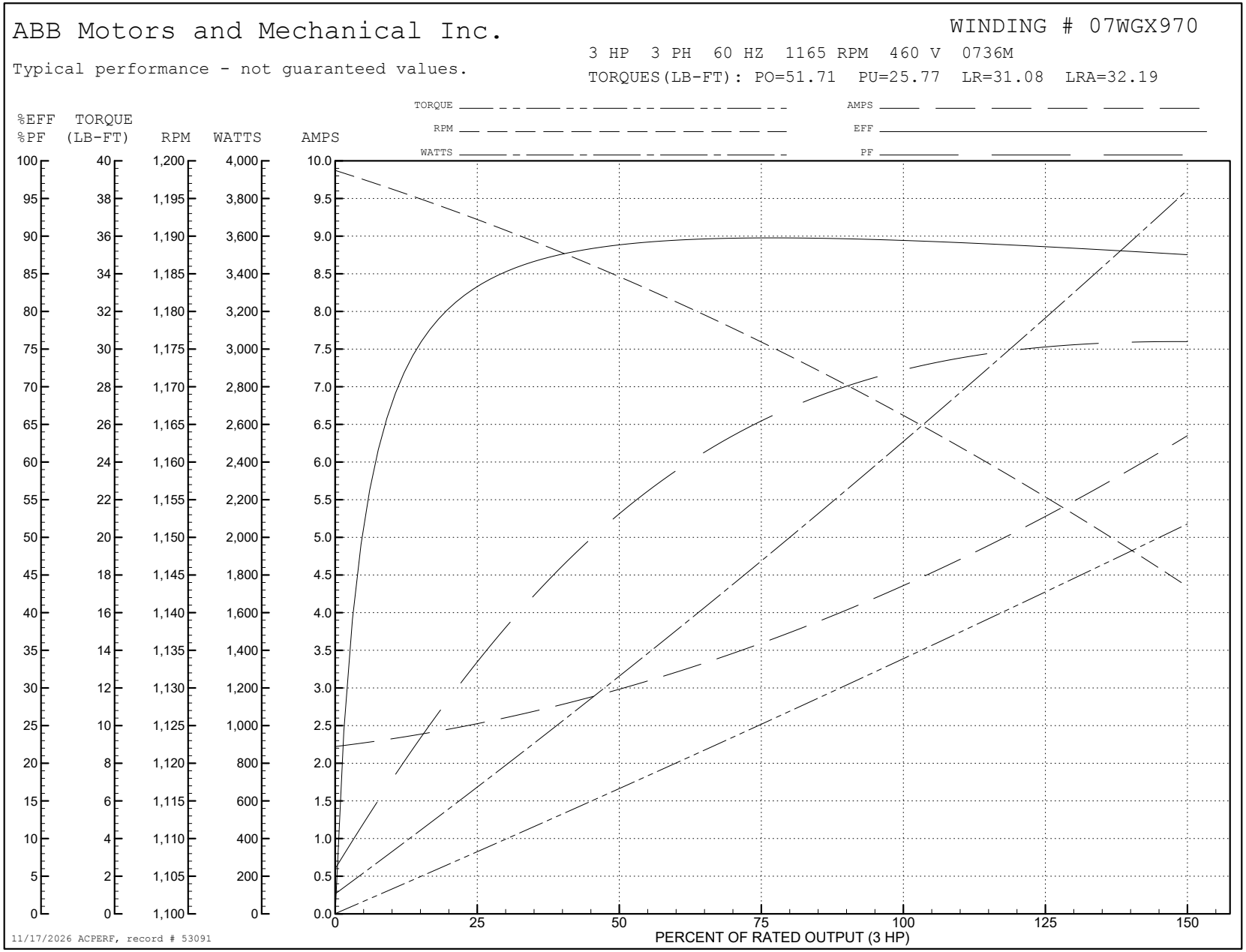
**AC Induction Motor Performance Data**
Record # 53091
Typical performance - not guaranteed values

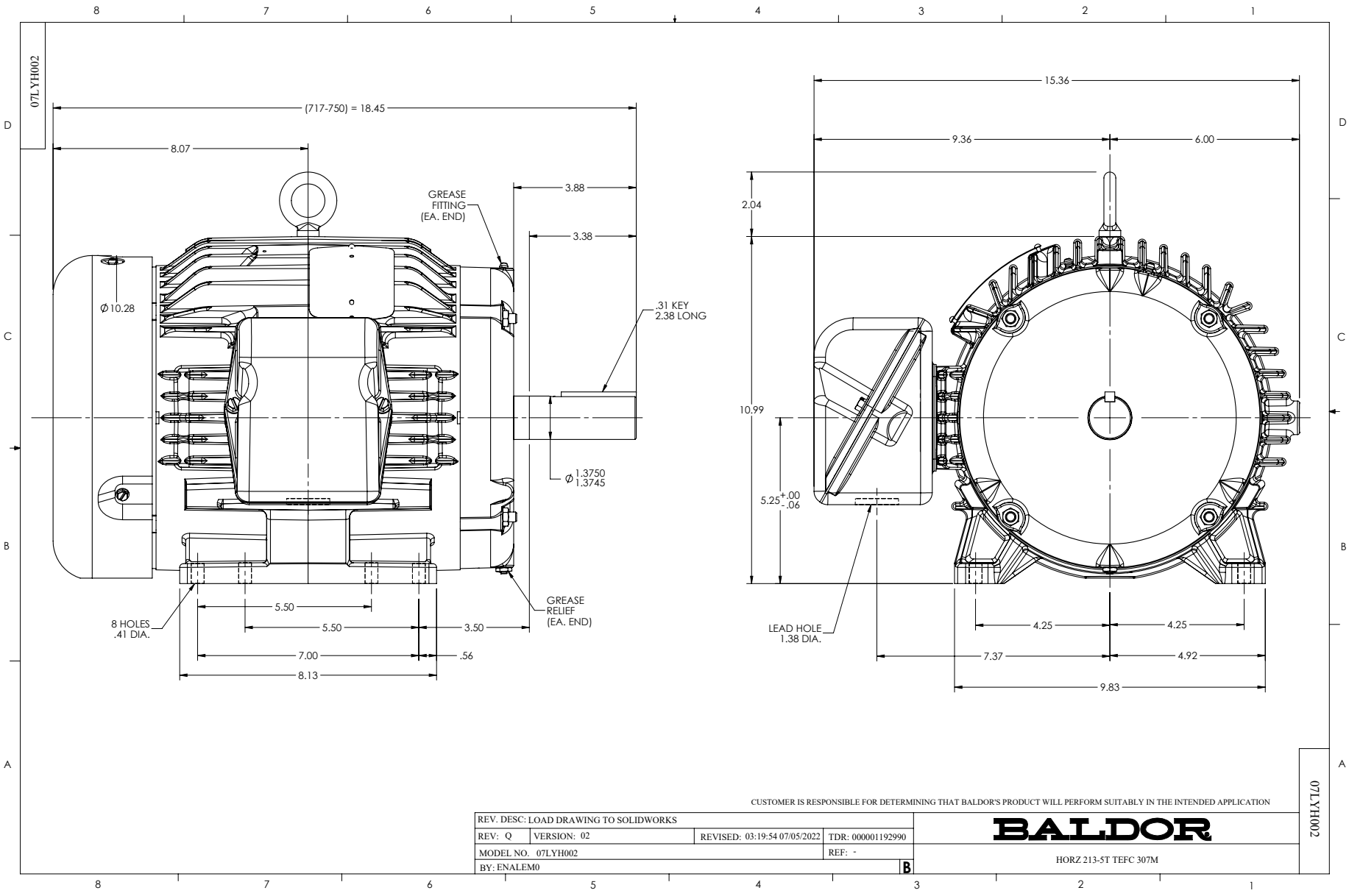
| **Winding:** 07WGX970-R023 | **Type:** 0736M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 13.61 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 9/4.5 | **Breakdown Torque** | 51.71 LB-FT |
| **R.P.M.** | | | 1165 | **Pull-up Torque** | 25.77 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 31.08 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 32.19 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.26 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 71 | **Line-line Res. @ 25ºC** | 3 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 34°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 41°C |
| | | | | **Locked-rotor Power Factor** | 23.3 |
| | | | | **Rotor inertia** | 0.895 LB-FT2 |

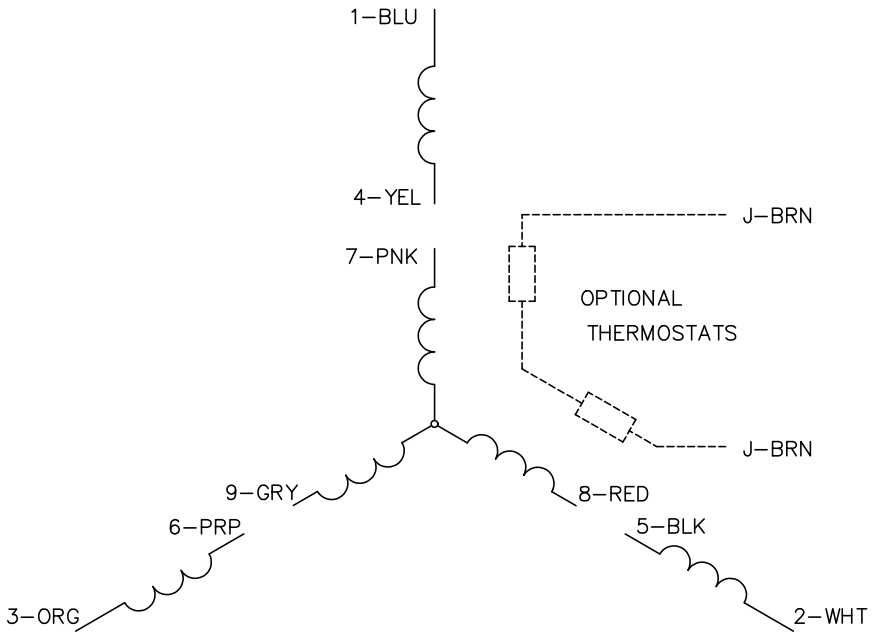
**Load Characteristics 460 V, 60 Hz, 3 HP**

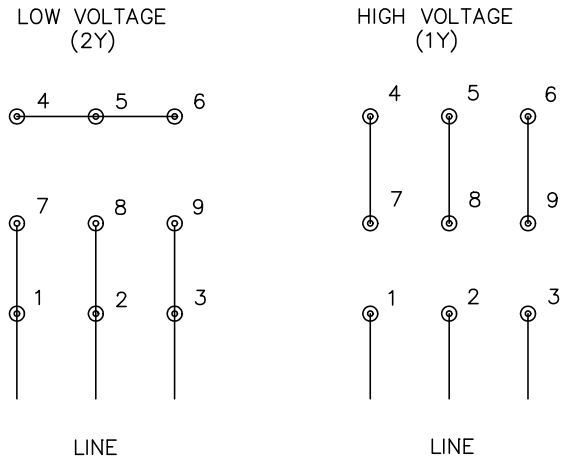
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 35 | 54 | 65 | 72 | 75 | 76 | 73 |
| **Efficiency** | 82.8 | 88.3 | 89.7 | 89.6 | 89 | 87.3 | 89.4 |
| **Speed** | 1192 | 1184 | 1176 | 1166 | 1156 | 1143 | 1161 |
| **Line amperes** | 2.48 | 2.96 | 3.62 | 4.41 | 5.29 | 6.33 | 4.99 |


ABB Motors and Mechanical Inc.
WINDING # 07WGX970
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1165 RPM 460 V 0736M
TORQUES(LB-FT): PO=51.71 PU=25.77 LR=31.08 LRA=32.19
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0
1,200 1,195 1,190 1,185 1,180 1,175 1,170 1,165 1,160 1,155 1,150 1,145 1,140 1,135 1,130 1,125 1,120 1,115 1,110 1,105 1,100
4,000 3,800 3,600 3,400 3,200 3,000 2,800 2,600 2,400 2,200 2,000 1,800 1,600 1,400 1,200 1,000 800 600 400 200 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (3 HP)
11/17/2026 ACPERF, record # 53091


07LYH002
(717-750) = 18.45
8.07
3.88
3.38
GREASE FITTING (EA. END)
Ø 10.28
.31 KEY 2.38 LONG
Ø 1.3750 1.3745
8 HOLES .41 DIA.
5.50
5.50
3.50
7.00
.56
8.13
GREASE RELIEF (EA. END)
15.36
9.36
6.00
2.04
10.99
5.25 +.00 -.06
LEAD HOLE 1.38 DIA.
4.25
4.25
7.37
4.92
9.83
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: Q
VERSION: 02
REVISED: 03:19:54 07/05/2022
TDR: 000001192990
MODEL NO. 07LYH002
REF: -
BY: ENALEM0
B
BALDOR
HORZ 213-5T TEFC 307M
07LYH002

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 |