ABB BALDOR RELIANCE

# Customer information packet

## EJMM4108T

30HP, 3525RPM, 3PH, 60HZ, 286JM, 1048M, TEFC, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 286JM |
| **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** | 30.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 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** | 34.000 A @ 460.0 V |
| | 68.000 A @ 230.0 V |
| **Design Code** | B |
| **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** | J |
| **Type** | AC |
| **Mech. spec.** | 10E380 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 10WGZ501 |
| **Layout** | 10LYE380 |
| **Eff. date** | 09-10-2025 |
| **CD Diagram** | CD0180 |
| **Poles** | 02 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 08-31-2017 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 34.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | G |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 10 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 1048M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 28.64 IN |
| **Power Factor** | 90 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Pump Coupling Shaft |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.250 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 3525 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**

| NP3443LUA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EJMM4108T | | | **CUST. P/N** | | | | | | **ENCL** | TEFC | |
| **SPEC.** | 10E380Z501G2 | **CC** | 010A | **FRAME** | 286JM | | **SER.NO.** | | | | | |
| **HP** | 30 | | **CLASS** | F | **HZ** | 60 | | | | | | |
| **R.P.M.** | 3525 | | **PH.** | 3 | **DES.** | B | | | | | | |
| **VOLTS** | 230/460 | | | **CODE** | G | | **ODE BRG** | 6309 | **DE BRG** | 6312 | | |
| **AMPS** | 68/34 | | | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | **NEMA NOM. EFF.** | 91.7 | | | **GREASE** | POLYREX EM | | | |
| **P.F.** | 90 | **SER.F.** | 1.15 | **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | |
| **USABLE AT** | 50HZ 30HP 190/380V 82/41A | | | SF1.0 | | | | | | | | |
| **VOLTS** | **AMPS** | | **MAX. SPACE HEATER TEMP.** | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 55452
Typical performance - not guaranteed values

| **Winding:** 10WGZ501-R001 | **Type:** 1048M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 30 | **Full Load Torque** | 44.8 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 68/34 | **Breakdown Torque** | 135 LB-FT |
| **R.P.M.** | | | 3520 | **Pull-up Torque** | 47 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 65.2 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | G | **Starting Current** | 212 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 8.74 A |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 90 | **Line-line Res. @ 25ºC** | 0.24052 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 69°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 85°C |
| | | | | **Locked-rotor Power Factor** | 23.2 |

**Load Characteristics 460 V, 60 Hz, 30 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 67 | 83 | 88 | 90 | 90 | 90 | 90 |
| **Efficiency** | 87 | 91.3 | 92 | 91.7 | 90.9 | 89.7 | 91.2 |
| **Speed** | 3583 | 3565.7 | 3547.3 | 3526.7 | 3504.4 | 3479.1 | 3513 |
| **Line amperes** | 12.4 | 18.7 | 26.1 | 34.1 | 43.1 | 52.5 | 39.5 |

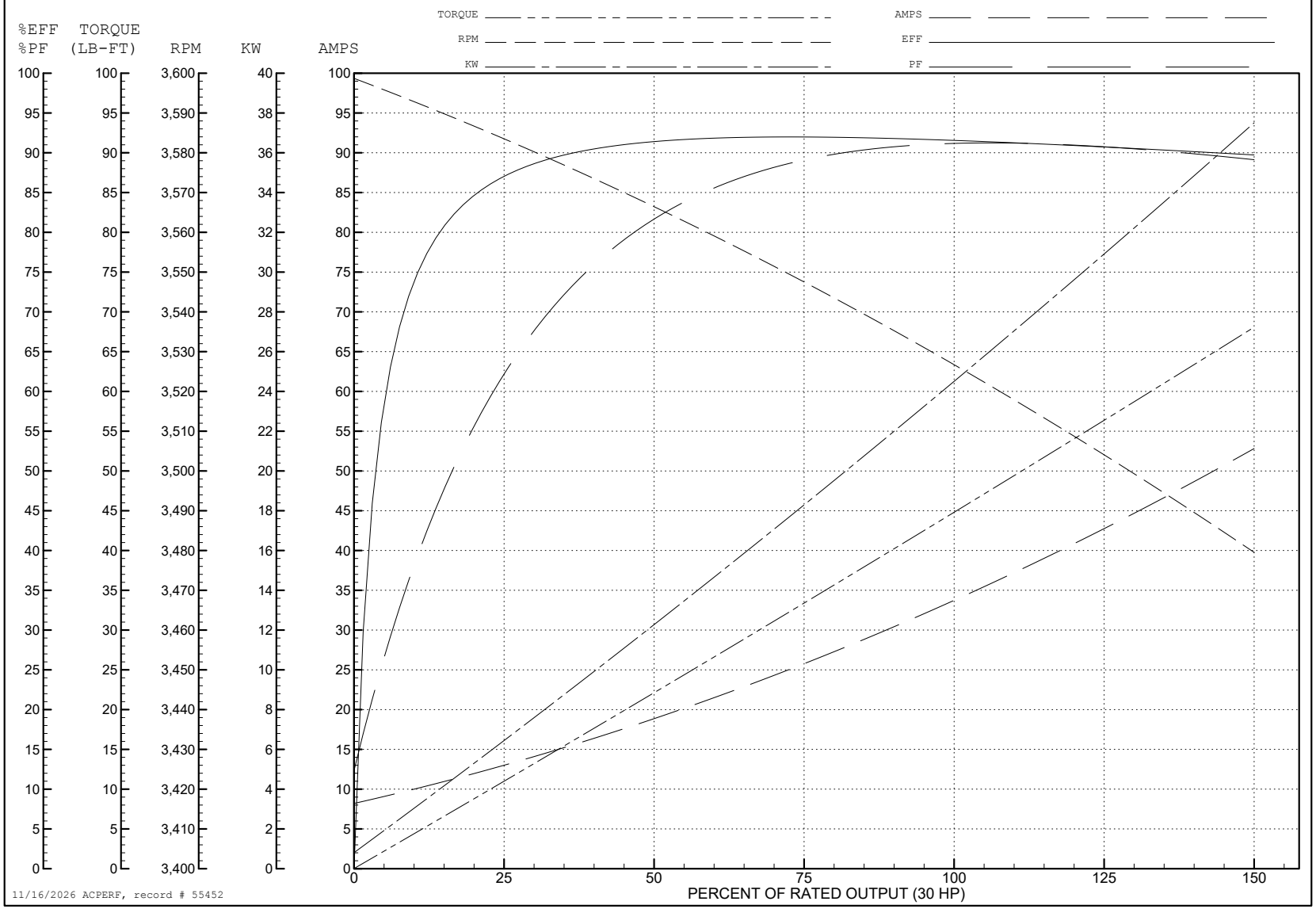
ABB Motors and Mechanical Inc.

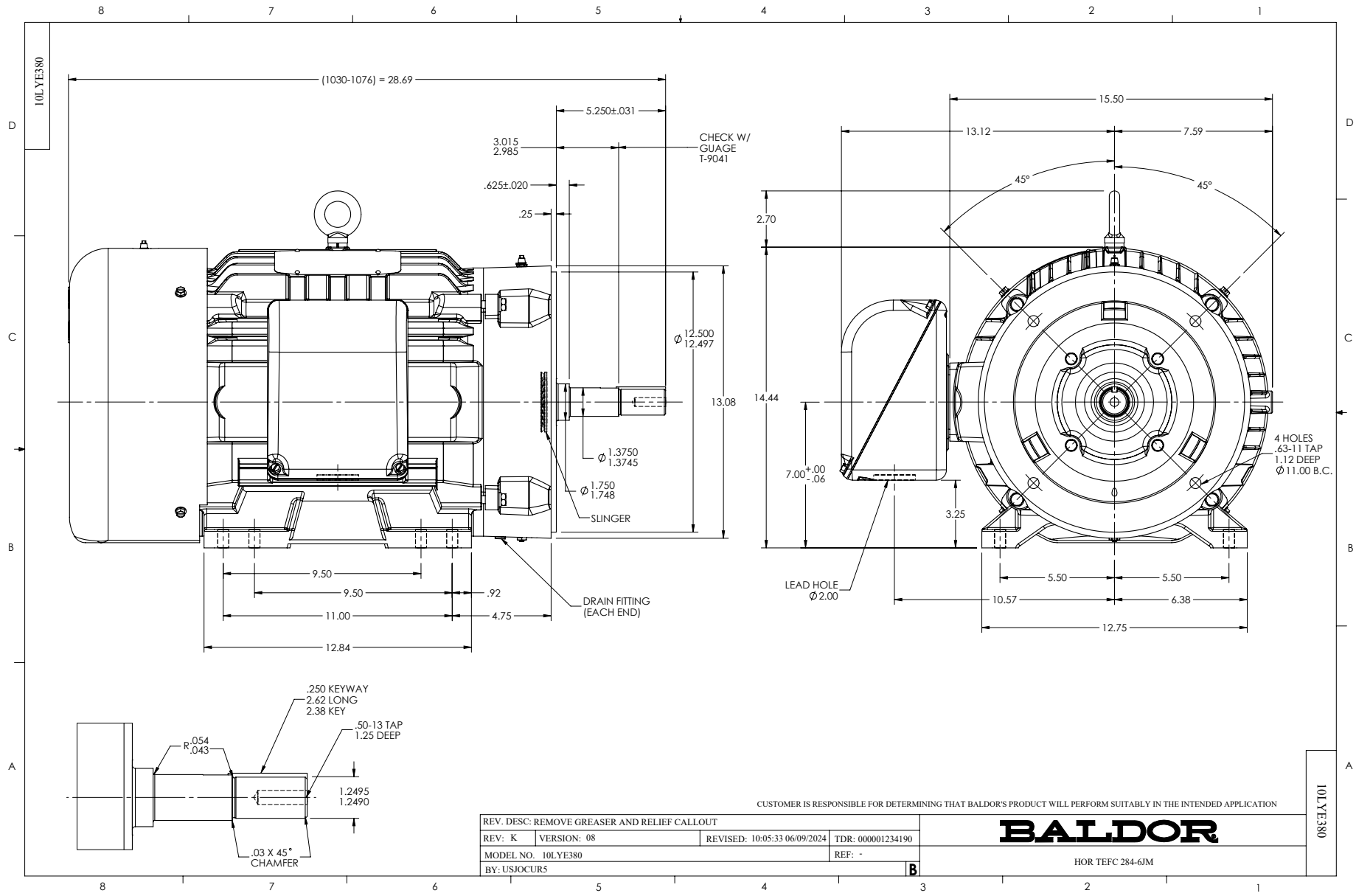
WINDING # 10WGZ501

30 HP 3 PH 60 HZ 3520 RPM 460 V 1048M

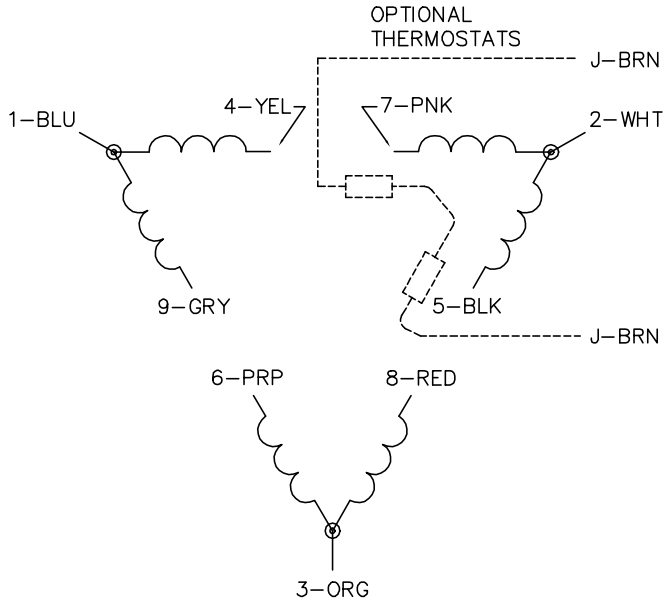
Typical performance - not guaranteed values.

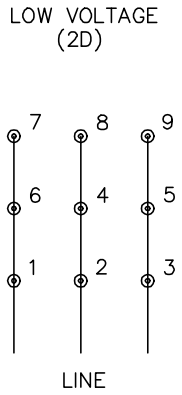
TORQUES(LB-FT): PO=135 PU=47 LR=65.2 LRA=212

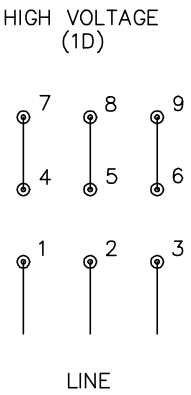



10LYE380
(1030-1076) = 28.69
5.250±.031
3.015
2.985
CHECK W/
GUAGE
T-9041
.625±.020
.25
Ø 12.500
12.497
13.08
Ø 1.3750
1.3745
Ø 1.750
1.748
SLINGER
9.50
9.50
.92
11.00
4.75
12.84
DRAIN FITTING
(EACH END)
15.50
13.12
7.59
45°
45°
2.70
14.44
4 HOLES
.63-11 TAP
1.12 DEEP
Ø 11.00 B.C.
7.00 +.00 -.06
3.25
LEAD HOLE
Ø 2.00
5.50
5.50
10.57
6.38
12.75
.250 KEYWAY
2.62 LONG
2.38 KEY
.50-13 TAP
1.25 DEEP
R .054 .043
1.2495
1.2490
.03 X 45°
CHAMFER
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE GREASER AND RELIEF CALLOUT
REV: K
VERSION: 08
REVISED: 10:05:33 06/09/2024
TDR: 000001234190
MODEL NO. 10LYE380
REF: -
BY: USJOCUR5
B
BALDOR
HOR TEFC 284-6JM
10LYE380

CD0180




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.

CD0180

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\148 | REVISED: 10:25:29 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1