ABB BALDOR RELIANCE

Customer information packet

JMEWDM4104T

30HP, 1770RPM, 3PH, 60HZ, 286JM, TEFC, F1
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	72.000 A @ 230.0 V
	36.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ506
Layout	10LY-000-754
Eff. date	10-08-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	01-16-2020

Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.44 IN
Power Factor	84
Product Family	Washdown Features
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.250 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1669L									
CAT.NO.	JMEWDM4104T								
SPEC.	10-0000-1311								
HP	30								
VOLTS	230/460								
AMP	72/36								
RPM	1770								
FRAME	286JM	**HZ**	60			**PH**	3		
SER.F.	1.00	**CODE**	G	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	93.6	**PF**	84						
RATING	40C AMB-CONT								
CC	010A								
DE	6312	**ODE**	6309						
ENCL	TEFC	**SN**							
BLANK	20:1CT,VT, 1.00SF								

AC Induction Motor Performance Data
Record # 74724
Typical performance - not guaranteed values

Winding: 10WGZ506-R010	**Type:** 1060M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	88.64 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			72/36	**Breakdown Torque**	267 LB-FT
R.P.M.			1770	**Pull-up Torque**	116 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	142 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	215 A
Service Factor (S.F.)			1	**No-load Current**	13.5 A
NEMA Nom. Eff.	93.6	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.234 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	29.7
				Rotor inertia	4.77 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	48	71	80	84	85	85
Efficiency	91	93.9	94.3	93.9	93.6	91.9
Speed	1793	1787	1779	1772	1764	1753
Line amperes	15.8	21.1	27.8	35.6	44	53.5

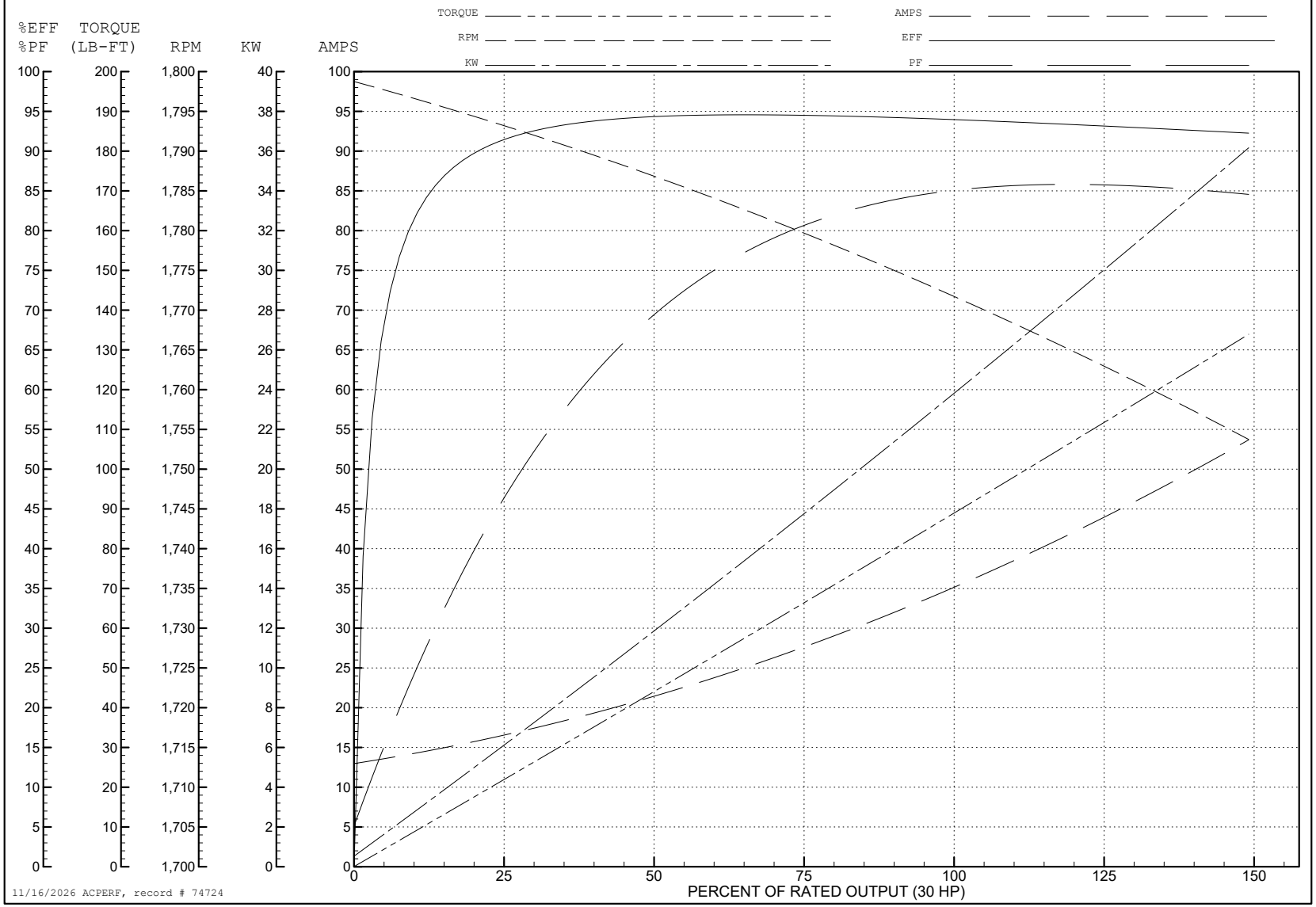
ABB Motors and Mechanical Inc.

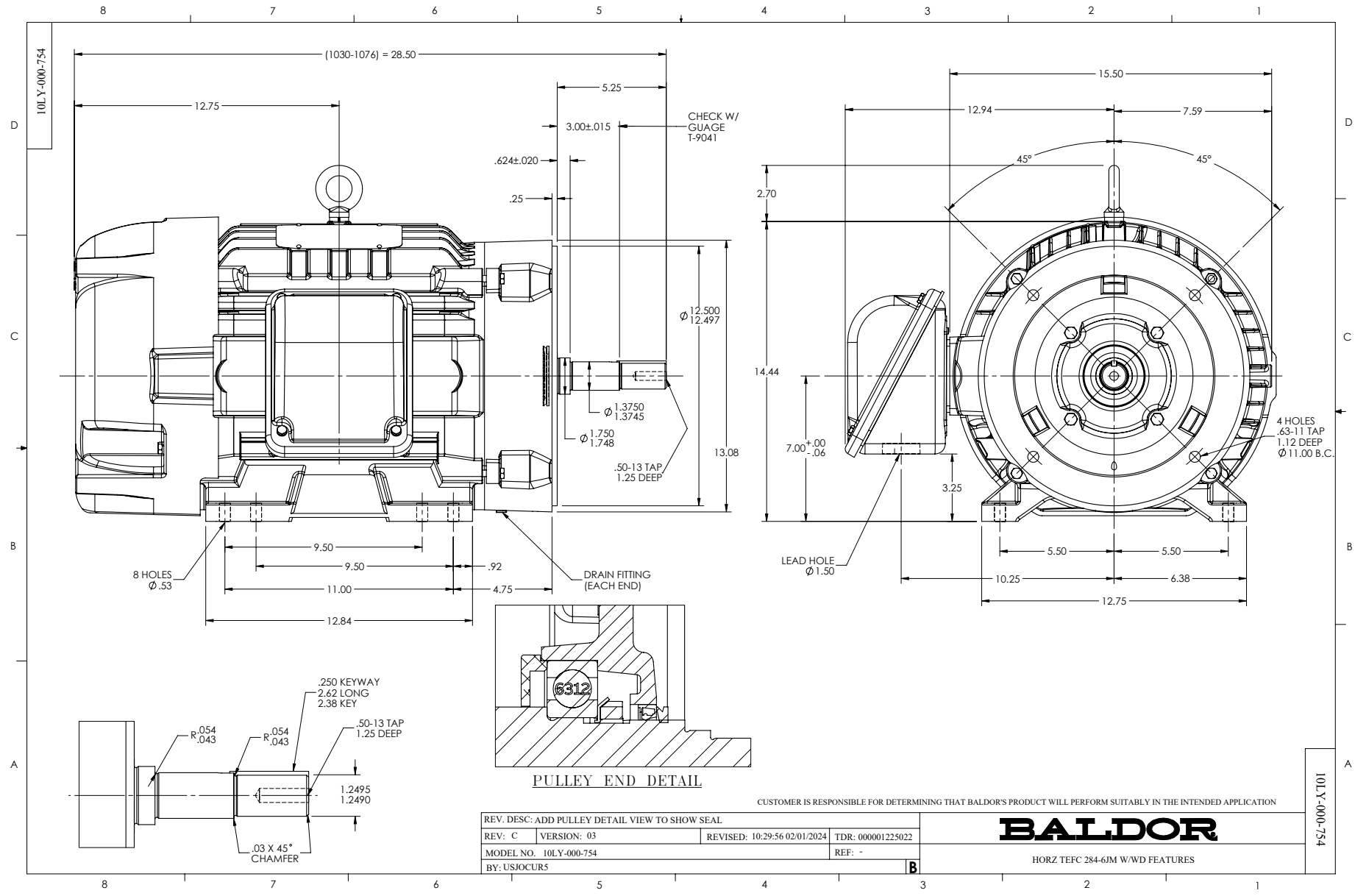
WINDING # 10WGZ506

30 HP 3 PH 60 HZ 1770 RPM 460 V 1060M

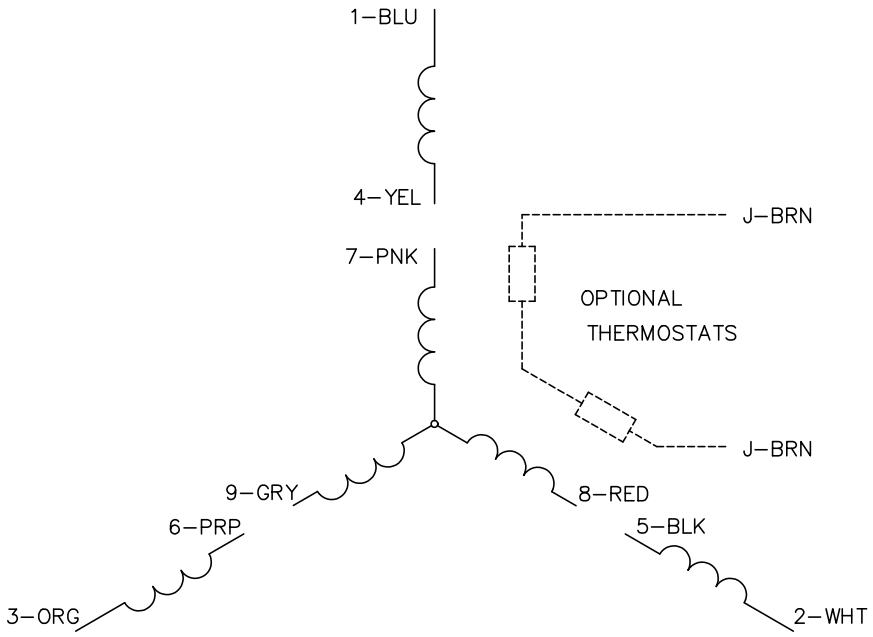
Typical performance - not guaranteed values.

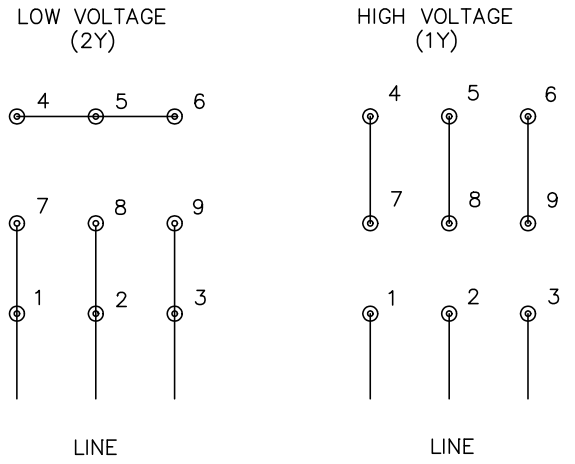
TORQUES(LB-FT): PO=267 PU=116 LR=142 LRA=215




10LY-000-754
(1030-1076) = 28.50
12.75
5.25
3.00±.015
CHECK W/ GUAGE T-9041
.624±.020
.25
Ø 12.500 12.497
Ø 1.3750 1.3745
Ø 1.750 1.748
.50-13 TAP 1.25 DEEP
13.08
9.50
9.50
.92
11.00
4.75
12.84
8 HOLES Ø .53
DRAIN FITTING (EACH END)
15.50
12.94
7.59
45°
45°
2.70
14.44
7.00 +.00 -.06
3.25
4 HOLES .63-11 TAP 1.12 DEEP Ø 11.00 B.C.
LEAD HOLE Ø 1.50
5.50
5.50
10.25
6.38
12.75
6312
PULLEY END DETAIL
.250 KEYWAY 2.62 LONG 2.38 KEY
R .054 .043
R .054 .043
.50-13 TAP 1.25 DEEP
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: ADD PULLEY DETAIL VIEW TO SHOW SEAL
REV: C VERSION: 03 REVISED: 10:29:56 02/01/2024 TDR: 000001225022
MODEL NO. 10LY-000-754 REF: -
BY: USJOCUR5 B
BALDOR
HORZ TEFC 284-6JM W/WD FEATURES
10LY-000-754

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