ABB BALDOR RELIANCE

Customer information packet

JMEWDM4108T

30HP, 3520RPM, 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	3600 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	76.000 A @ 208.0 V
	68.000 A @ 230.0 V
	34.000 A @ 460.0 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
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ505
Layout	10LY-000-754
Eff. date	10-08-2025
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	01-21-2020

High Voltage Full Load Amps	34.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1066M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	28.44 IN
Power Factor	89
Product Family	Washdown Features
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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.	JMEWDM4108T							
SPEC.	10-0000-1318							
HP	30							
VOLTS	230/460							
AMP	68/34							
RPM	3520							
FRAME	286JM	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	F	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	91.7	**PF**	89					
RATING	40C AMB-CONT							
CC	010A							
DE	6312	**ODE**	6309					
ENCL	TEFC	**SN**						
BLANK	10:1 CT & VT,1.0SF							

AC Induction Motor Performance Data
Record # 55013
Typical performance - not guaranteed values

Winding: 10WGZ505-R001	**Type:** 1066M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			30
Volts			230/460
Full Load Amps			68/34
R.P.M.			3520
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	F
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	89
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	44.6 LB-FT
Start Configuration	direct on line
Breakdown Torque	130 LB-FT
Pull-up Torque	59.9 LB-FT
Locked-rotor Torque	68.9 LB-FT
Starting Current	190 A
No-load Current	8.79 A
Line-line Res. @ 25ºC	0.246 Ω
Temp. Rise @ Rated Load	65°C
Temp. Rise @ S.F. Load	81°C
Locked-rotor Power Factor	22.9
Rotor inertia	2.83 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	66	82	87	89	89	89	89
Efficiency	89.7	92.6	92.7	92.3	91.2	89.9	91.7
Speed	3581	3563	3541	3521	3495	3466	3505
Line amperes	12.5	18.6	26.3	34	43.6	52.7	39.8

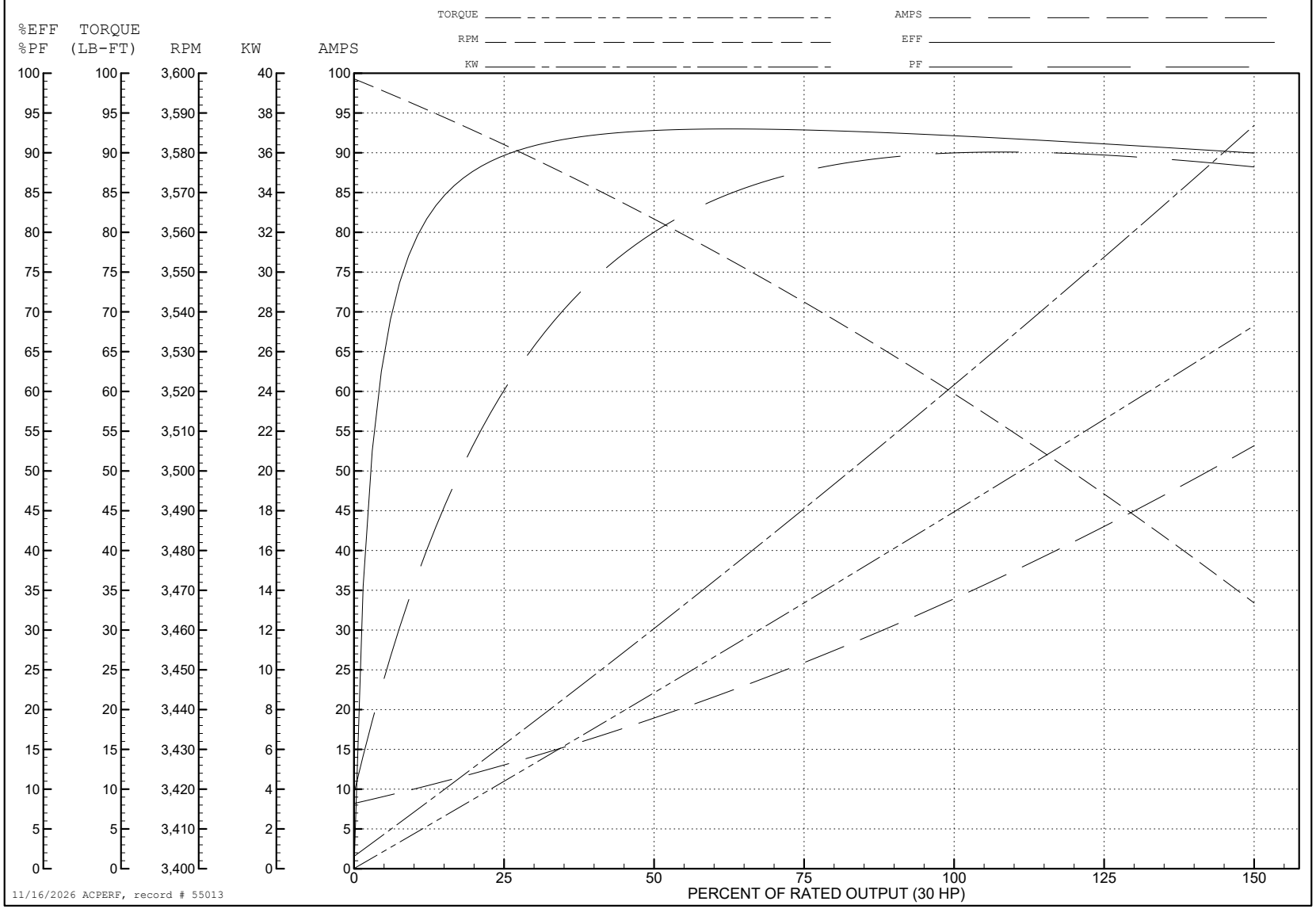
ABB Motors and Mechanical Inc.

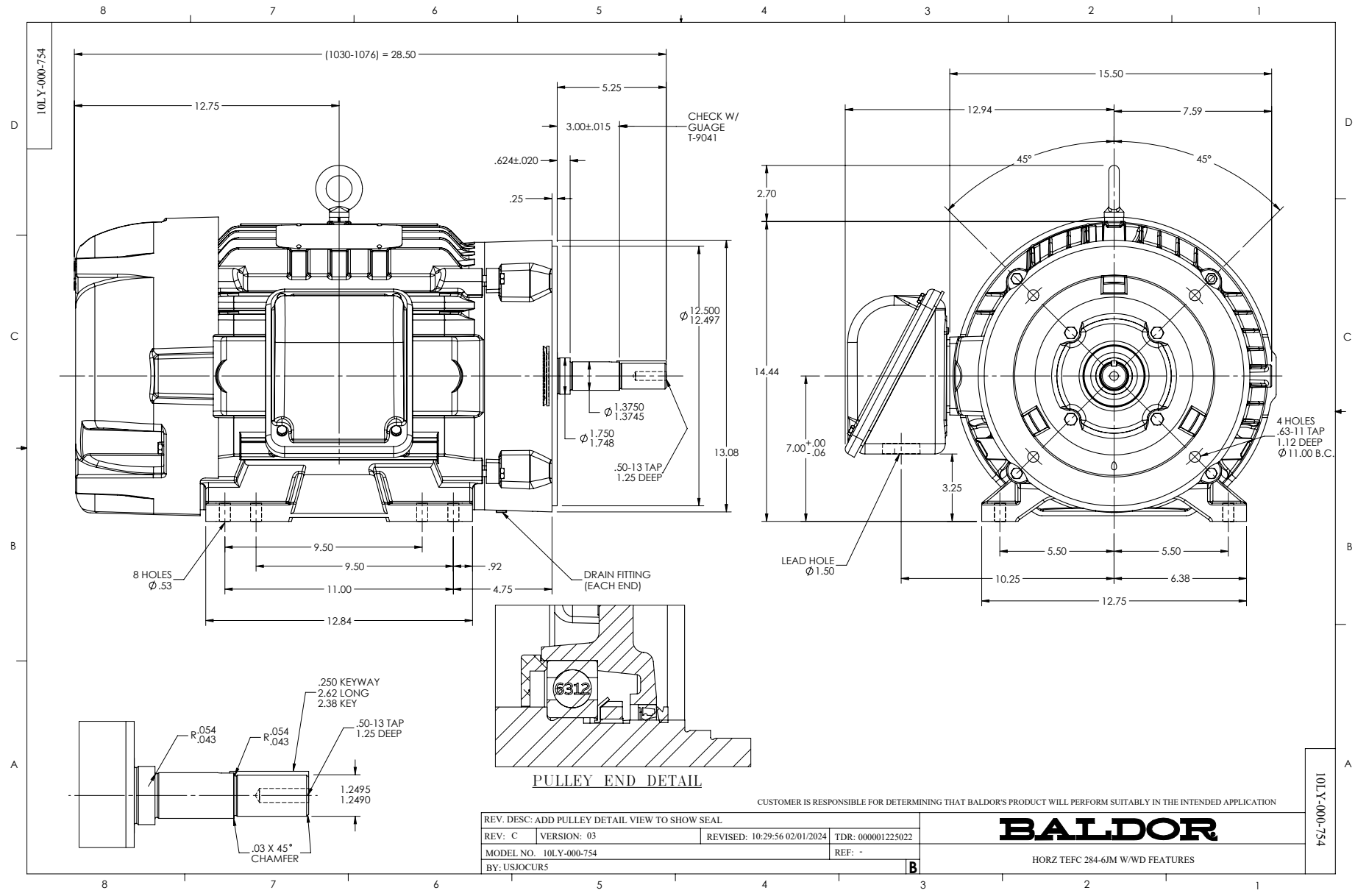
WINDING # 10WGZ505

30 HP 3 PH 60 HZ 3520 RPM 460 V 1066M

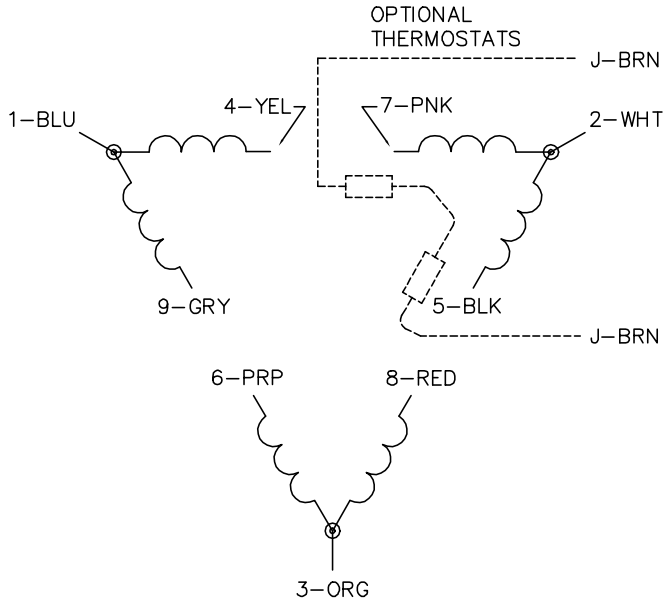
Typical performance - not guaranteed values.

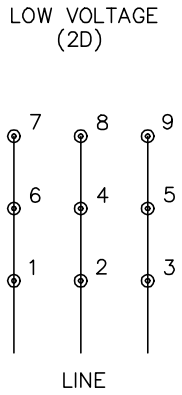
TORQUES(LB-FT): PO=130 PU=59.9 LR=68.9 LRA=190

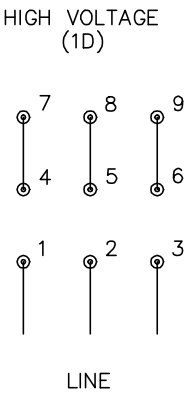



10LY-000-754
(1030-1076) = 28.50
12.75
5.25
3.00±.015
CHECK W/ GUAGE T-9041
.624±.020
.25
Ø 12.500 12.497
Ø 1.3750 1.3745
Ø 1.750 1.748
.50-13 TAP 1.25 DEEP
13.08
9.50
9.50
.92
11.00
4.75
12.84
8 HOLES Ø .53
DRAIN FITTING (EACH END)
15.50
12.94
7.59
45°
45°
2.70
14.44
7.00 +.00 -.06
3.25
4 HOLES .63-11 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
.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
PULLEY END DETAIL
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

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

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