ABB BALDOR RELIANCE

Customer information packet

JMEWDM4107T

25HP, RPM, 3PH, 60HZ, 284JM, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	284JM
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Output @ Frequency	25.000 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	30.000 A @ 460.0 V
	60.000 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
Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ426
Layout	10LY-000-754
Eff. date	10-08-2025
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	01-29-2020

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	1050M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	28.44 IN
Power Factor	84
Product Family	Washdown Features
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 rpm
Starting Method	Full Voltage
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.	JMEWDM4107T								
SPEC.	10-0000-1271								
HP	25								
VOLTS	230/460								
AMP	60/30								
RPM	3520								
FRAME	284JM	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	G	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	91.7	**PF**	84						
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 # 78723
Typical performance - not guaranteed values

Winding: 10WGZ426-R002	**Type:** 1050M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			25
Volts			230/460
Full Load Amps			60/30
R.P.M.			3520
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	84
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	37.21 LB-FT
Start Configuration	direct on line
Breakdown Torque	120 LB-FT
Pull-up Torque	59.57 LB-FT
Locked-rotor Torque	68.64 LB-FT
Starting Current	188 A
No-load Current	18.96 A
Line-line Res. @ 25ºC	0.288 Ω
Temp. Rise @ Rated Load	60°C
Temp. Rise @ S.F. Load	75°C
Locked-rotor Power Factor	23.6
Rotor inertia	2.15 lb-ft²

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	38	61	73	79	81	83
Efficiency	87.1	91	91.8	91.4	90.3	89.3
Speed	3581	3562	3542	3522	3497	3470
Line amperes	18.79	21.32	26.54	32.41	40.04	47.3

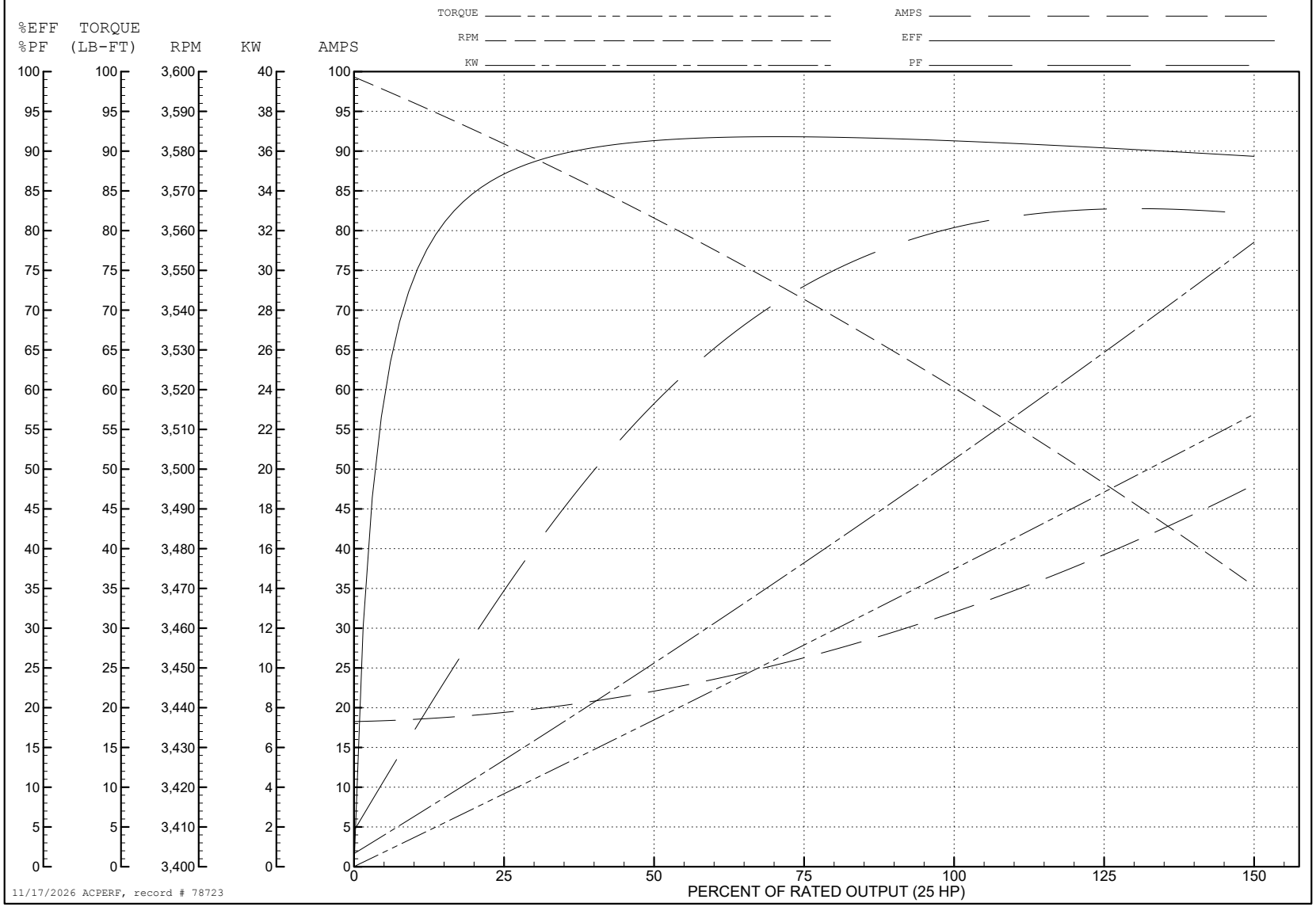
ABB Motors and Mechanical Inc.

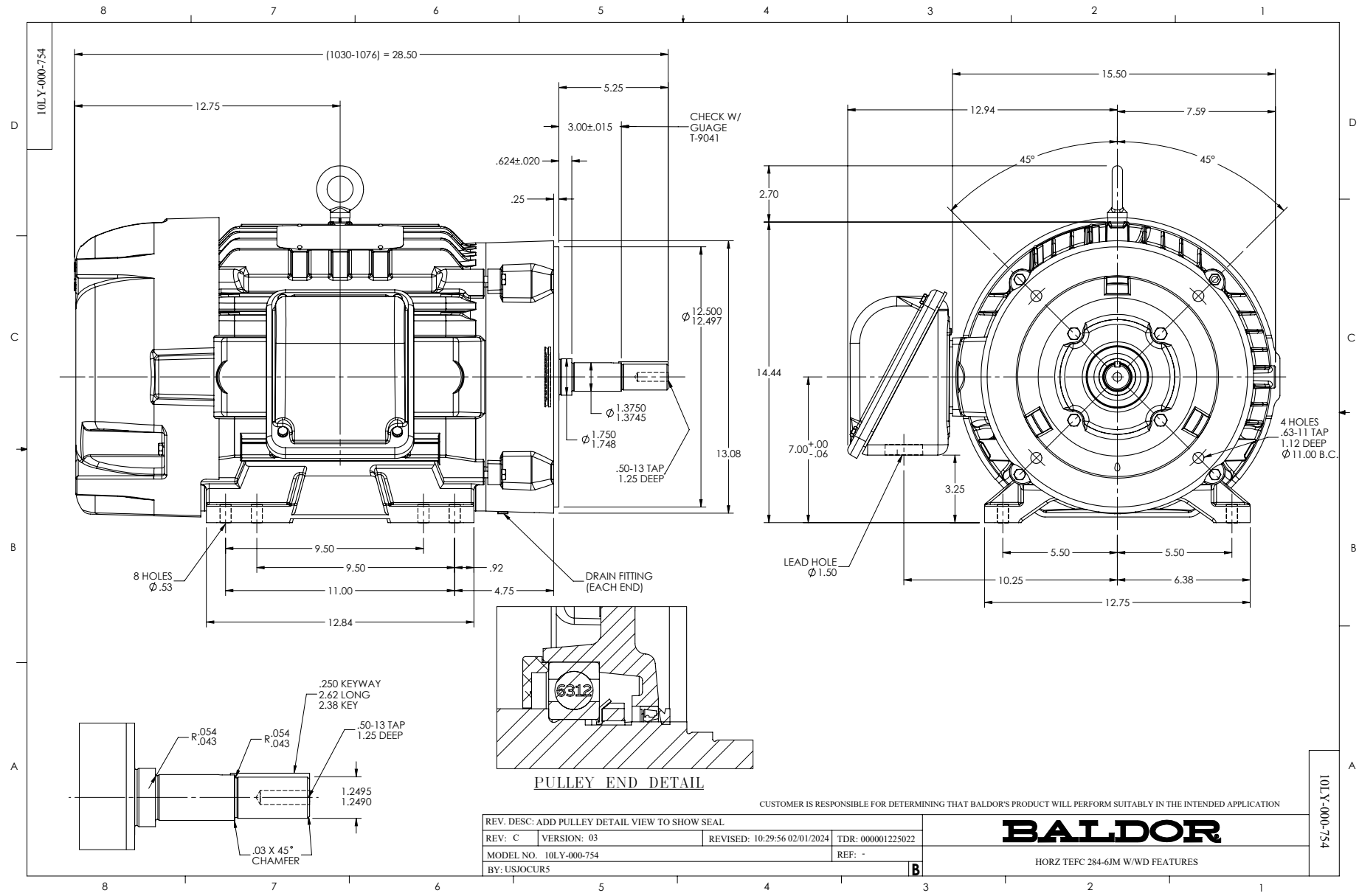
WINDING # 10WGZ426

Typical performance - not guaranteed values.

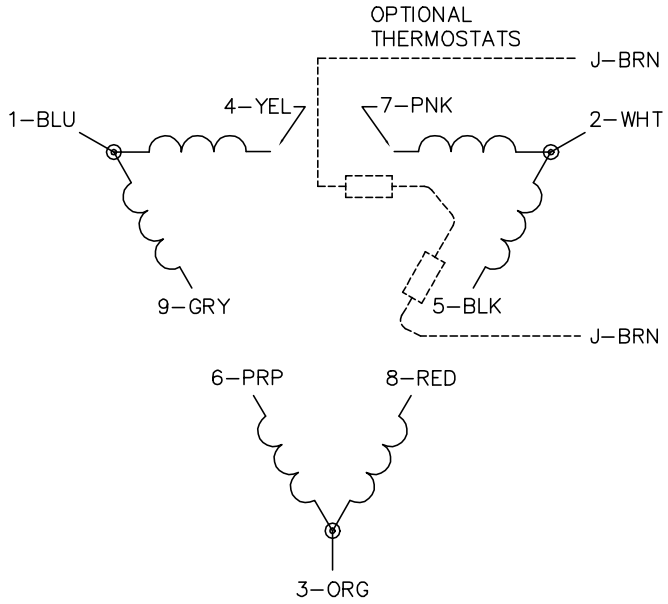
25 HP 3 PH 60 HZ 3520 RPM 460 V 1050M

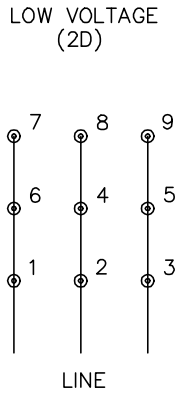
TORQUES(LB-FT): PO=120 PU=59.57 LR=68.64 LRA=188

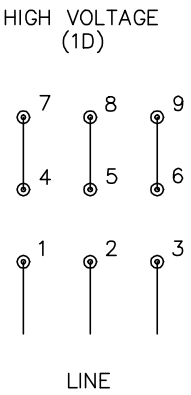



10LY-000-754
(1030-1076) = 28.50
12.75
5.25
3.00±.015
CHECK W/ GUAGE T-9041
.624±.020
.25
Ø 12.500 12.497
Ø 1.3750 1.3745
Ø 1.750 1.748
.50-13 TAP 1.25 DEEP
13.08
9.50
9.50
.92
11.00
4.75
12.84
8 HOLES Ø.53
DRAIN FITTING (EACH END)
15.50
12.94
7.59
45°
45°
2.70
14.44
7.00 +.00 -.06
3.25
4 HOLES .63-11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

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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