ABB BALDOR RELIANCE

Customer information packet

EWDM4112T

20HP, 880RPM, 3PH, 60HZ, 324T, 1256M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	324T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	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	62.000 A @ 208.0 V
	60.000 A @ 230.0 V
	30.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	B
Type	AC
Mech. spec.	12P064
Base	
Status	PRD/A
Elec. spec.	12WGZ306
Layout	12LYP064
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	08
Leads	9#10
Proprietary	False
Created date	04-18-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1256M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	30.28 IN
Power Factor	68
Product Family	Washdown Features
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	880 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.	EWDM4112T							
SPEC.	12P064Z306							
HP	20							
VOLTS	230/460							
AMP	60/30							
RPM	880							
FRAME	324T	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	G	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	90.2	**PF**	68					
RATING	40C AMB-CONT							
CC	010A							
DE	6312	**ODE**	6311					
ENCL	TEFC	**SN**						
BLANK	10:1 CT/VT							

AC Induction Motor Performance Data
Record # 92443
Typical performance - not guaranteed values

Winding: 12WGZ306-R001	**Type:** 1256M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	119 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			60/30	**Breakdown Torque**	278 LB-FT
R.P.M.			880	**Pull-up Torque**	156 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	164 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	141 A
Service Factor (S.F.)			1.15	**No-load Current**	17.47 A
NEMA Nom. Eff.	90.2	**Power Factor**	68	**Line-line Res. @ 25ºC**	0.37 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps				**Temp. Rise @ S.F. Load**	68°C
				Locked-rotor Power Factor	34
				Rotor inertia	7.46 lb-ft²

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	49	61	68	72	73	68
Efficiency	85	90.1	91	90.7	89.9	88.5	90.4
Speed	894	890	885	881	875	868	878
Line amperes	18.32	20.94	25.08	30.17	36.38	43.47	34.9

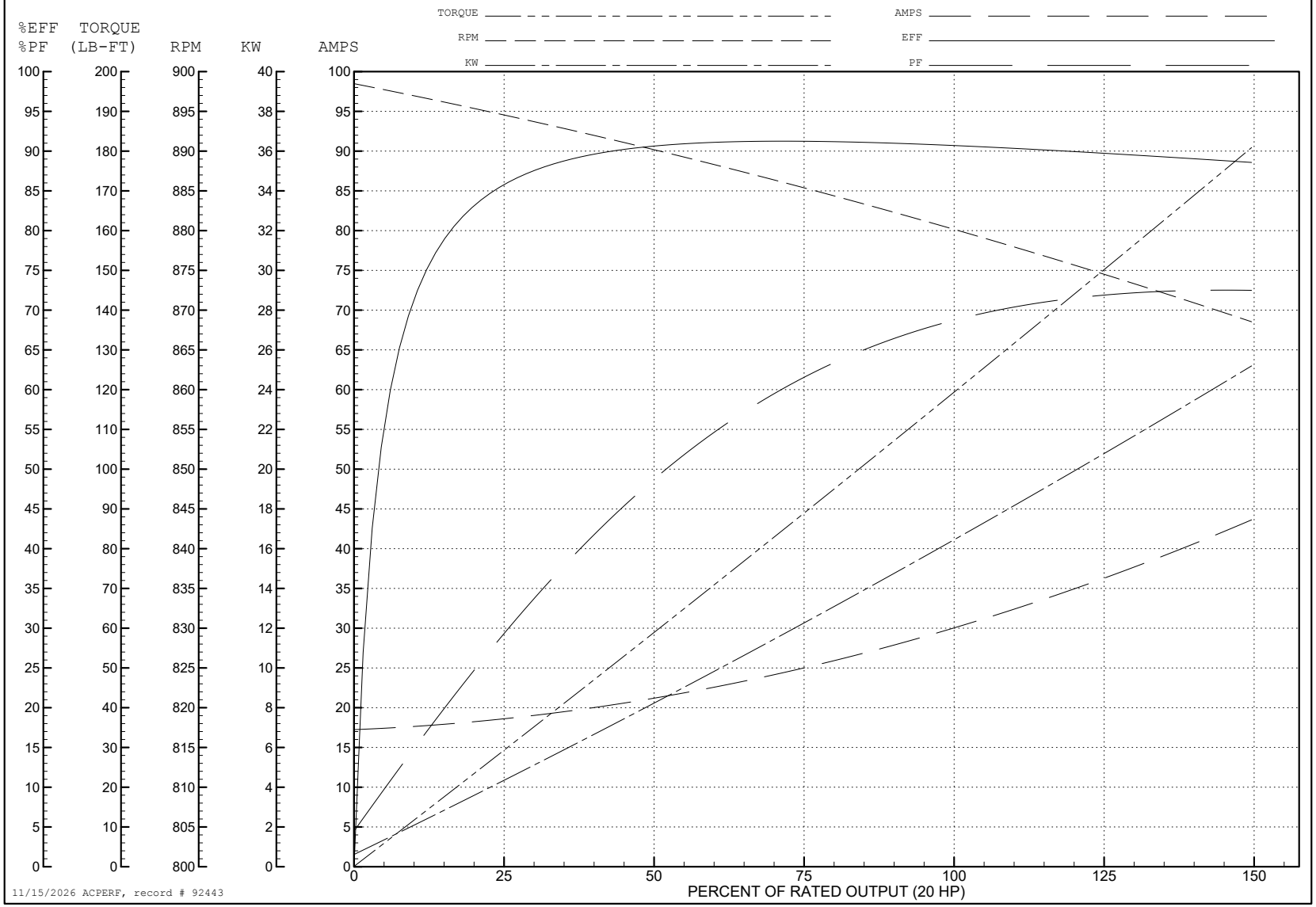
ABB Motors and Mechanical Inc.

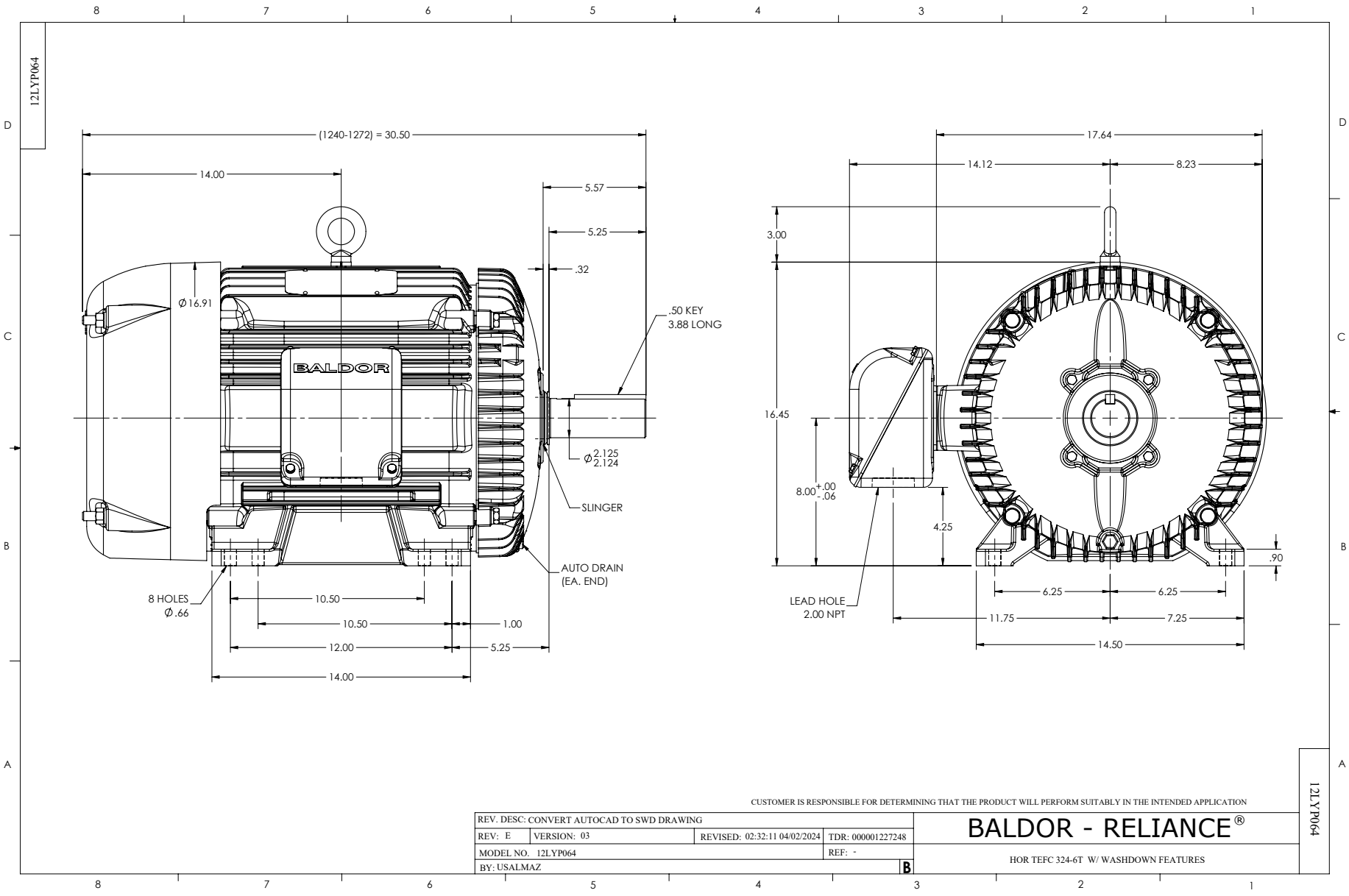
WINDING # 12WGZ306

20 HP 3 PH 60 HZ 880 RPM 460 V 1256M

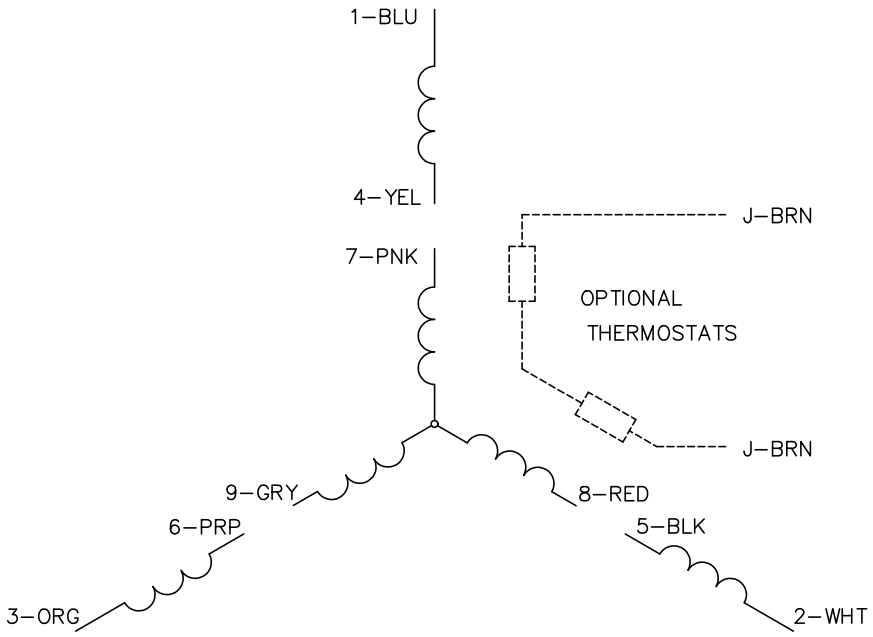
Typical performance - not guaranteed values.

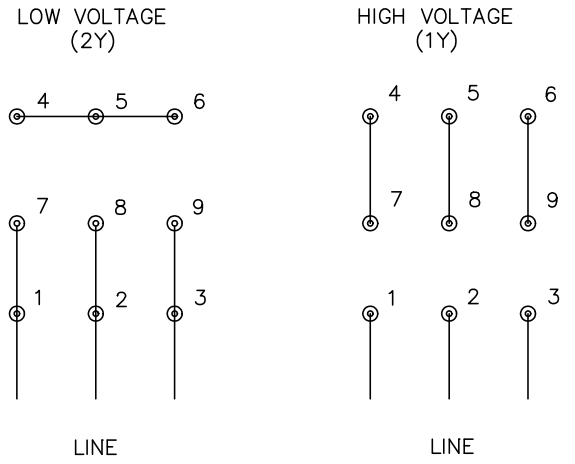
TORQUES(LB-FT): PO=278 PU=156 LR=164 LRA=141




12LYP064
(1240-1272) = 30.50
14.00
5.57
5.25
.32
Ø16.91
.50 KEY
3.88 LONG
BALDOR
Ø2.125
2.124
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.64
14.12
8.23
3.00
16.45
8.00 +.00 -.06
4.25
.90
LEAD HOLE
2.00 NPT
6.25
6.25
11.75
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: E
VERSION: 03
REVISED: 02:32:11 04/02/2024
TDR: 000001227248
MODEL NO. 12LYP064
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR TEFC 324-6T W/ WASHDOWN FEATURES
12LYP064

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