ABB BALDOR RELIANCE

Customer information packet

EM4117T-G

30HP, 1180RPM, 3PH, 60HZ, 326T, 1264M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	326T
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	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CURUSEEV
	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	78.000 A @ 230.0 V
	39.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	R
Type	AC
Mech. spec.	12F882
Base	
Status	PRD/A
Elec. spec.	12WGY812
Layout	12LYF882
Eff. date	03-10-2025
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	09-15-2014

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.28 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 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.	EM4117T-G			**CUST. P/N**						**ENCL**	TEFC
SPEC.	12F882Y812G1	**CC**	010A	**FRAME**	326T		**SER.NO.**				
HP	30	**CLASS**	H	**HZ**	60						
R.P.M.	1180	**PH.**	3	**DES.**	A						
VOLTS	230/460			**CODE**	H	**ODE BRG**	6311	**DE BRG**	6312		
AMPS	78/39										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	93		**GREASE**	POLYREX EM			
P.F.	78	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**							
USABLE AT	50HZ 30HP 190/380V 92/46A			SF1.0							
VOLTS	**AMPS**			**MAX. SPACE HEATER TEMP.**							

AC Induction Motor Performance Data
Record # 47206
Typical performance - not guaranteed values

Winding: 12WGY812-R005	**Type:** 1264M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	133 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			78/39	**Breakdown Torque**	370 LB-FT
R.P.M.			1180	**Pull-up Torque**	179 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	217 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	245 A
Service Factor (S.F.)			1.15	**No-load Current**	17.2 A
NEMA Nom. Eff.	93	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.22799 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	27.5
				Rotor inertia	12.2 lb-ft²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	63	73	78	80	80	79
Efficiency	89	92.7	93.4	93.1	92.4	91.4	92.7
Speed	1196.5	1191.9	1188.3	1183.2	1178.2	1171.8	1180
Line amperes	19.2	24.1	31	38.7	47.5	57.3	44

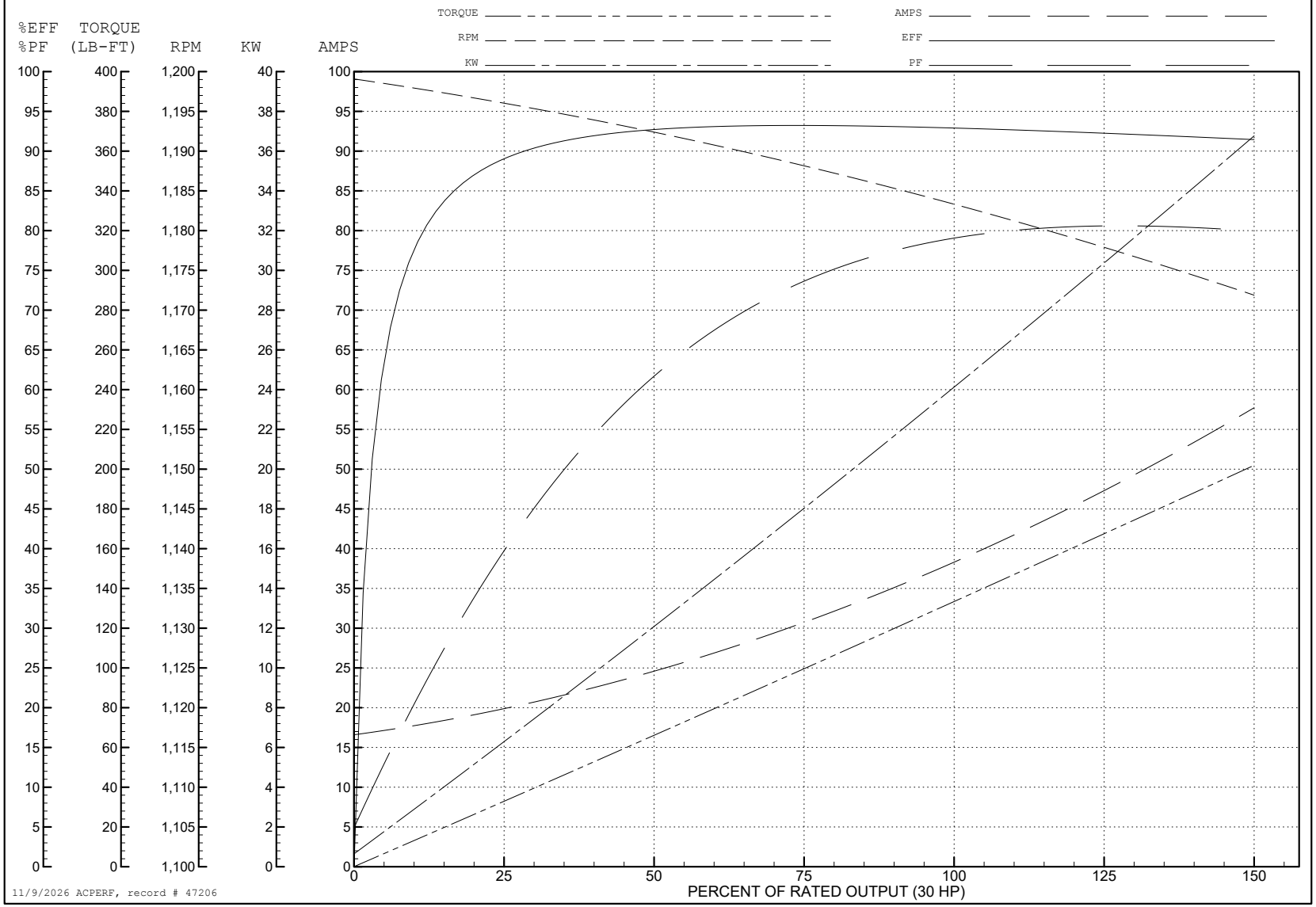
ABB Motors and Mechanical Inc.

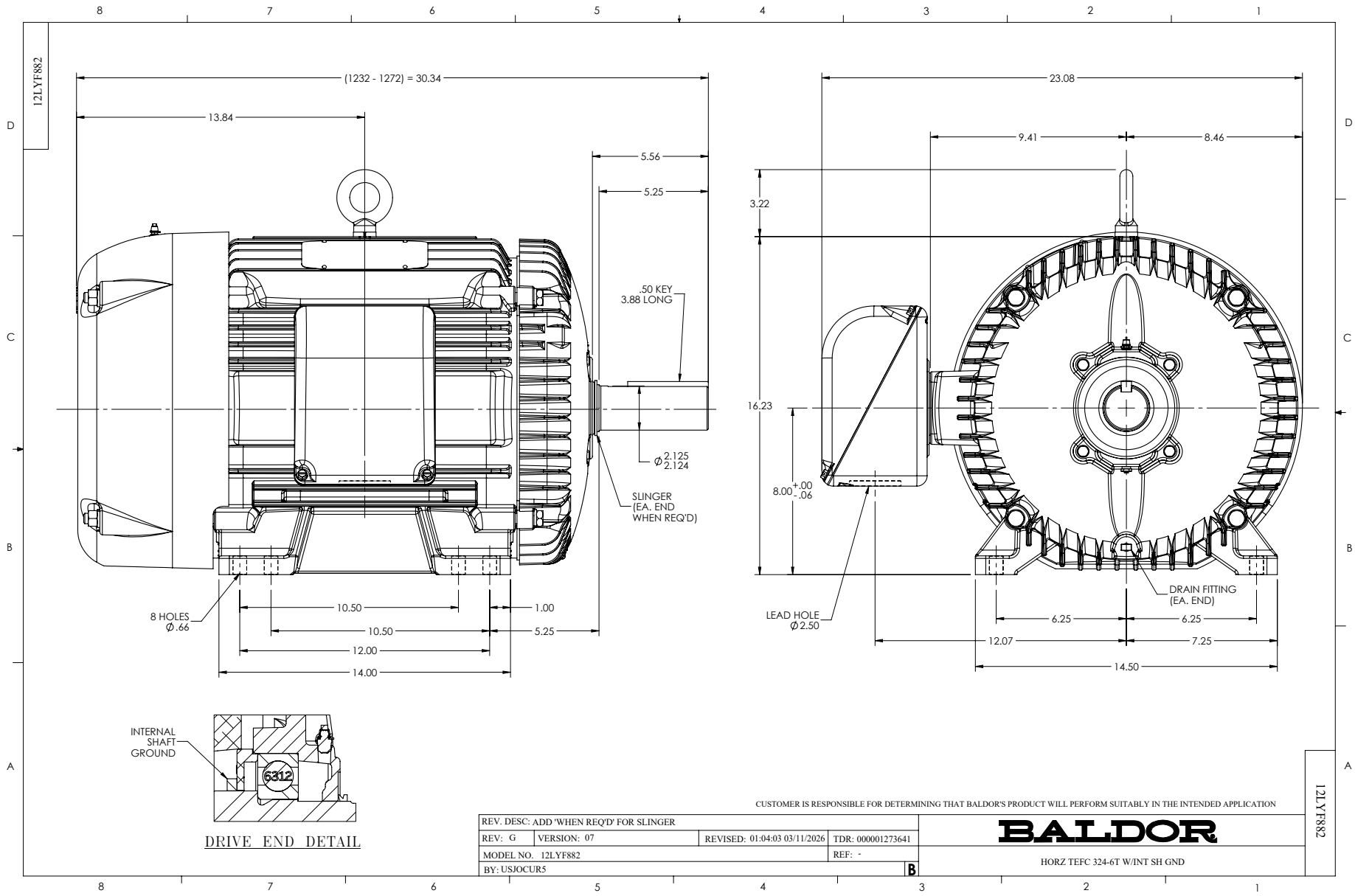
WINDING # 12WGY812

30 HP 3 PH 60 HZ 1180 RPM 460 V 1264M

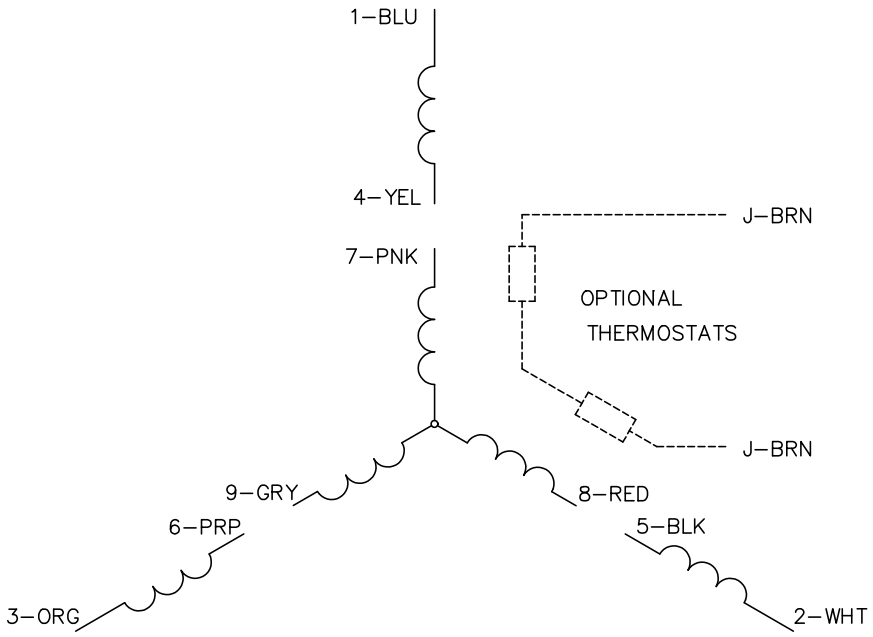
Typical performance - not guaranteed values.

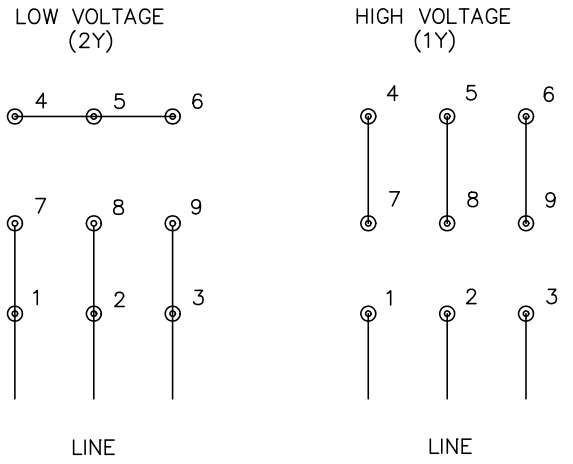
TORQUES(LB-FT): PO=370 PU=179 LR=217 LRA=245




12LYF882
(1232 - 1272) = 30.34
13.84
5.56
5.25
.50 KEY
3.88 LONG
Ø 2.125
2.124
SLINGER
(EA. END
WHEN REQ'D)
8 HOLES
Ø .66
10.50
1.00
10.50
5.25
12.00
14.00
23.08
9.41
8.46
3.22
16.23
8.00 +.00 -.06
LEAD HOLE
Ø 2.50
DRAIN FITTING
(EA. END)
6.25
6.25
12.07
7.25
14.50
INTERNAL
SHAFT
GROUND
6312
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 'WHEN REQ'D' FOR SLINGER
REV: G
VERSION: 07
REVISED: 01:04:03 03/11/2026
TDR: 000001273641
MODEL NO. 12LYF882
REF: -
BY: USJOCUR5
B
BALDOR
HORZ TEFC 324-6T W/INT SH GND
12LYF882

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