

BALDOR® • RELIANCE

Product Information Packet

ECP84115T-4

50HP,1770RPM,3PH,60HZ,326T,1272M,TEFC,F1

Part Detail

Revision:	AJ	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGX731	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	12E599	Layout:	12LYE599	Poles:	04	Created Date:	02-01-2006
Base:	RG	Eff. Date:	05-25-2017	Leads:	3#8		

Specs

Catalog Number:	ECP84115T-4	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	326T	KVA Code:	G
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	50.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 8 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	CLI GP A,B,C,D	Motor Lead Termination:	Ring Terminals
XP Division:	Division II	Motor Type:	1272M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	87
	CSA	Product Family:	Chem Process S/P 32-8 IEEE 841
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Constant Torque Speed Range:	1.0	Shaft Ground Indicator:	No Shaft Grounding

Current @ Voltage:	57.000 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	XP Temp Code:	T3

Nameplate NP3190

STK.NO.	ECP84115T-4	P/N		ENCLOSURE	TEFC
SPEC.	12E599X731	CC	010A	FRAME	326T
HP	50	CLASS	F	HZ	60
RPM	1770	RPM MAX	2700	PH	3
VOLT	460	DES	B	ODE BRG	6312
AMP	57	KVA-CODE	G	DE BRG	6312
RATING	40C AMB-CONT	MOTOR WEIGHT	800	D.E. BRG.	60BC03X30X
NEMA-NOM-EFF	94.5	MAX. KVAR	9.4	O.D.E. BRG.	60BC03X30X
G.MIN.EFF	93.6	SER.F.	1.15	GREASE	POLYREX EM
TEMP CODE	T3	PF	87	BLANK	
TEMP =	200	INV.TYPE	PWM	IP	56
CT HZ FROM	1.0	# OF ROTOR BARS	40		
HTR-VOLTS		# OF STATOR SLOTS	48		
		INVERTER-TEMP-CODE	200		
		C HP FR	60		
		C HP TO	90		
		HTR-AMPS			
		HTR-WATTS			
		MAX. SPACE HEATER TEMP.			
		VT HZ FROM	0		
		VT HZ TO	60		

AC Induction Motor Performance Data

Record # 47222 - Typical performance - not guaranteed values

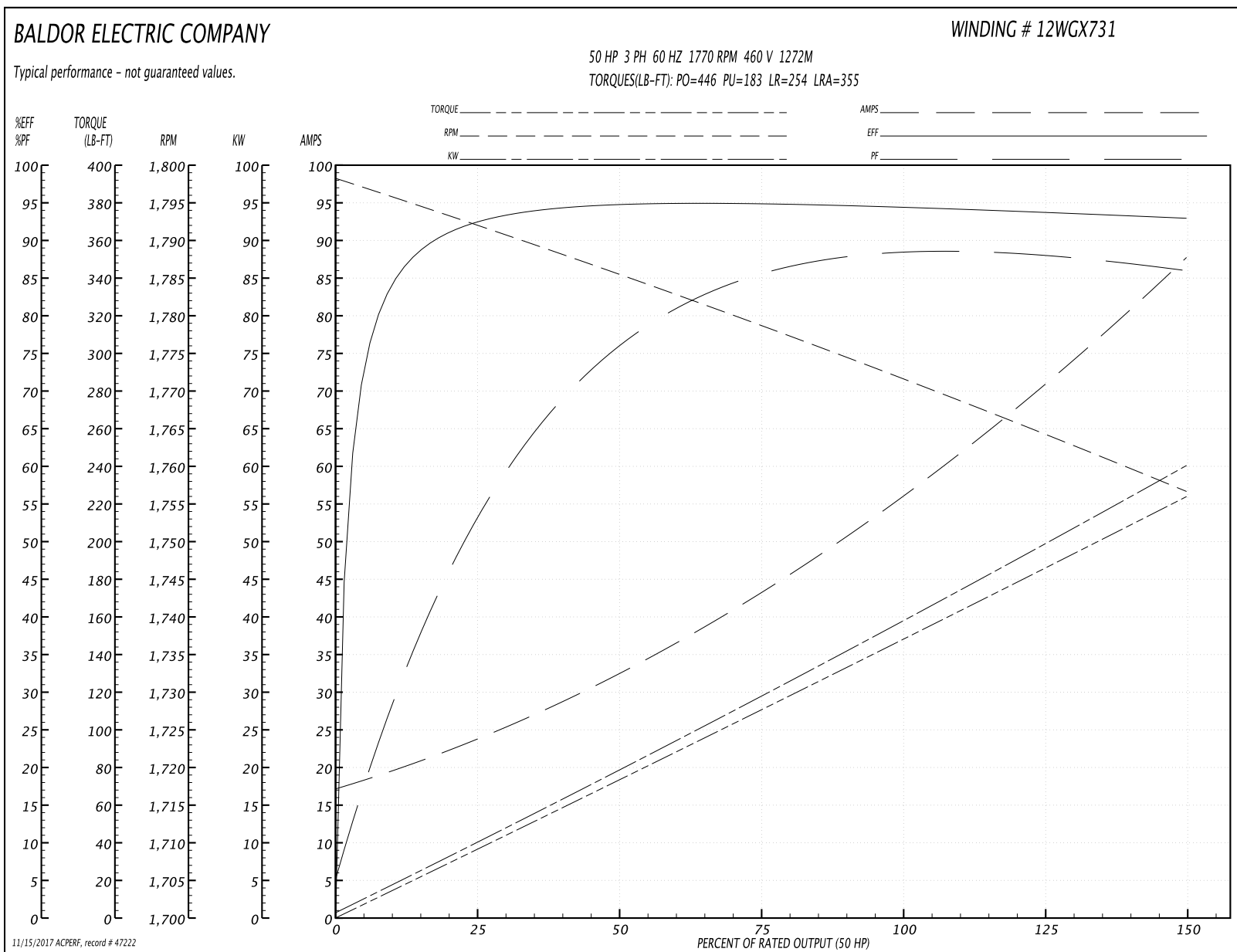
Winding: 12WGX731-R055	Type: 1272M	Enclosure: TEFC
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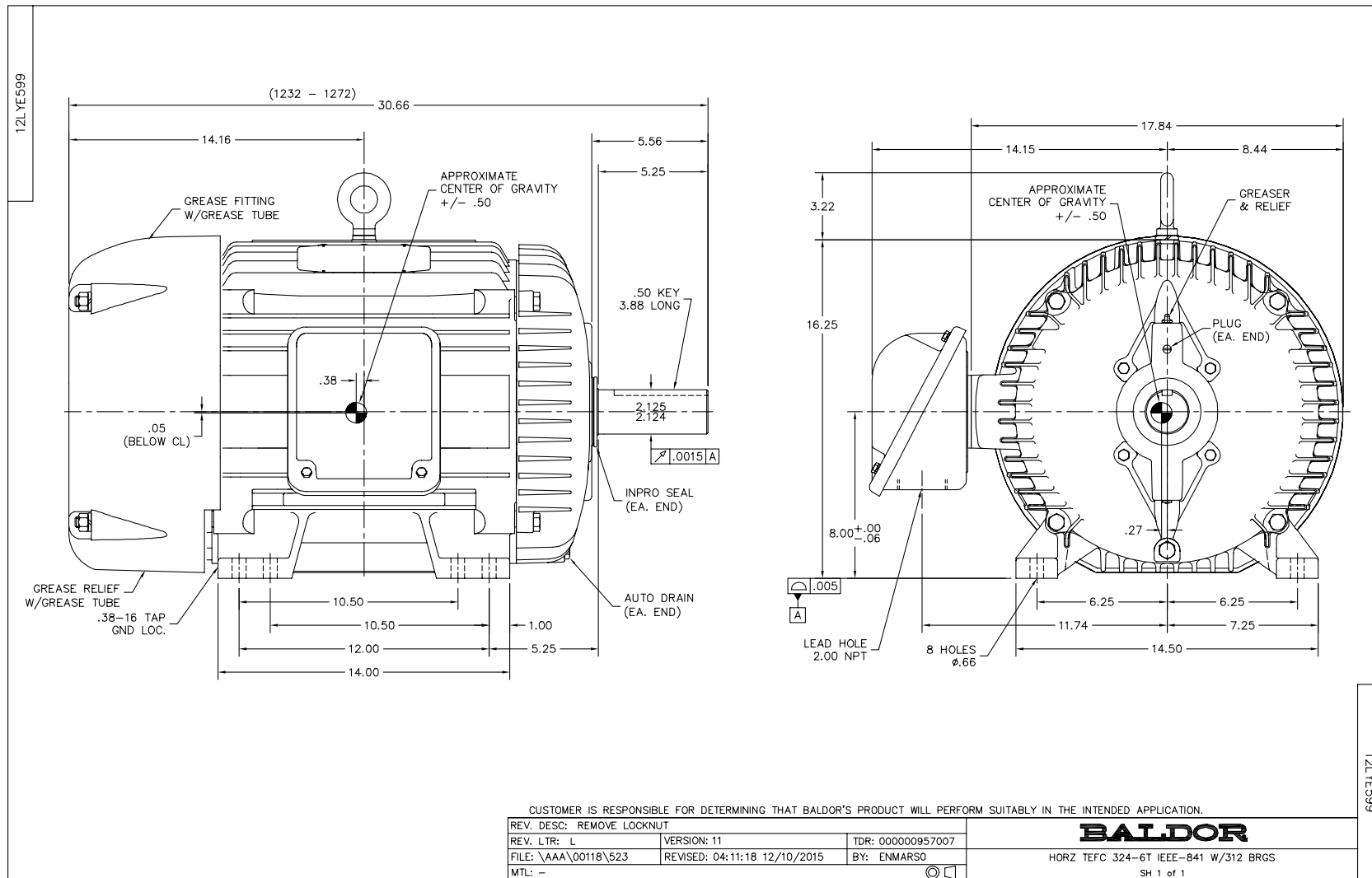
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	50			Full Load Torque	148 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	57			Breakdown Torque	446 LB-FT
R.P.M.	1770			Pull-up Torque	183 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	254 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	355 A
Service Factor (S.F.)	1.15			No-load Current	18.3 A
NEMA Nom. Eff.	94.5	Power Factor	87	Line-line Res. @ 25°C	0.118 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	61°C
S.F. Amps				Temp. Rise @ S.F. Load	75°C
				Locked-rotor Power Factor	24.4
				Rotor inertia	9.59 LB-FT ²

Load Characteristics 460 V, 60 Hz, 50 HP

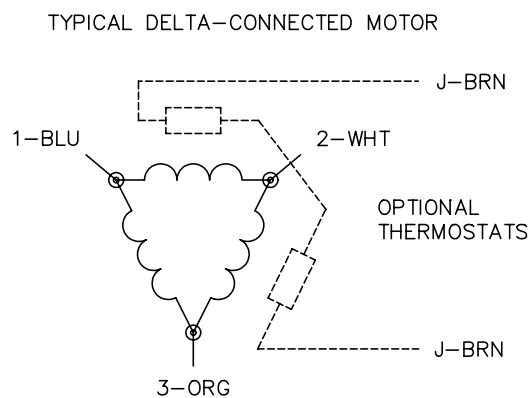
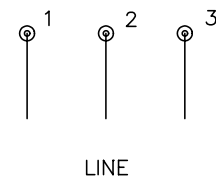
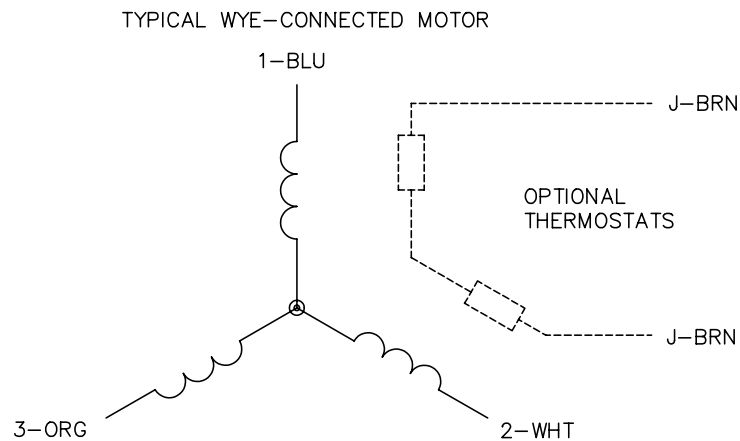
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	78	85	87	87	87	88
Efficiency	92.1	94.7	94.9	94.5	93.9	92.9	94.1
Speed	1791	1785	1779	1772	1765	1756	1768
Line amperes	22.3	31.9	43.5	56.9	71.3	87.1	65.5

Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D

BY: JLP

REVISED: 01/21/99 4:02

TDR: 0171435

9000D

FILE: AAA00005141

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006