

BALDOR® • RELIANCE

Product Information Packet

ECP4115T-5

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

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1272M	Elec. Spec:	12WGY613	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	12F904	Layout:	12LYF904
Frame:	326T	Mounting:	F1	Poles:	04	Created Date:	10-31-2013
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	10-09-2015
Leads:	3#8					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3241											
CAT.NO.	ECP4115T-5	P/N		ENCLOSURE	TEFC						
SPEC.	12F904Y613	CC	010A	FRAME	326T	S/N					
HP	50	CLASS	F	HZ	60	DES		B			
RPM	1770	RPM MAX	2700	PH	3	KVA-CODE		F			
VOLT	575	MOTOR WEIGHT	700								
AMP	45	SER.F.	1.15	PF	87	ODE BRG		6312	DE BRG	6312	
RATING	40C AMB-CONT	NEMA-NOM-EFF	94.5	GREASE	POLYREX EM						
		INV.TYPE	PWM								
TEMP CODE	T3	INVERTER-TEMP-CODE	200								
TEMP =	200	C HP FR	60	C HP TO	90						
CT HZ FROM	1.3	CT HZ TO	60								
HTR-VOLTS		HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.			VT HZ FROM	O	VT HZ TO 60

Parts List		
Part Number	Description	Quantity
SA271692	SA 12F904Y613	1.000 EA
RA258317	RA 12F904Y613	1.000 EA
09FN3001C03	EXTERNAL FAN, PLASTIC	1.000 EA
10CB1000A04E	CONDUIT BOX, MACH W/E-COAT	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
10XN3118K16	5/16-18 X 1" GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
HA4017A10	1/8X1.25 GREASE EXT (F/S)	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HA3400A13SP	STUD, 1/2-13 X 7" WELKER	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 EA
HA1005A04SP	SLINGER, OD 3.620, ID 1.98,	1.000 EA
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
12FH1002A33E	FAN COVER, MACH ,E-COAT	1.000 EA
12EP1111A30E	SPL PUEP 312 BRG W/E-COAT	1.000 EA
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
XY5013A12	NUT, 1/2-13, HEX, STEEL, ZINC PLATED	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT., .879 OD, .509 I	4.000 EA
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 EA
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HW2501H34	KEY, 1/2 SQ X 4.00	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5001A14	DYNAPRO SEAL, CP MOTORS VC#2508050 (603	0.033 EA
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 EA
LB1115N	LABEL, LIFTING DEVICE (ON ROLLS)	1.000 EA
12EP1111A35GE6	FR ENDPLATE, MACH W/E-COAT & MG1025N19	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.200 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA

HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025N19	PAINT, 778.50 WILKO, RELIANCE ELEC GREEN	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3241	SS SUPER-E INV UL CSA-EEV PREM CC	1.000 EA
12PA1000	PACKAGING GROUP PRINT PK1024A06	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA

Accessories		
Part Number	Description	Multiplier
12-1105	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 47188 - Typical performance - not guaranteed values

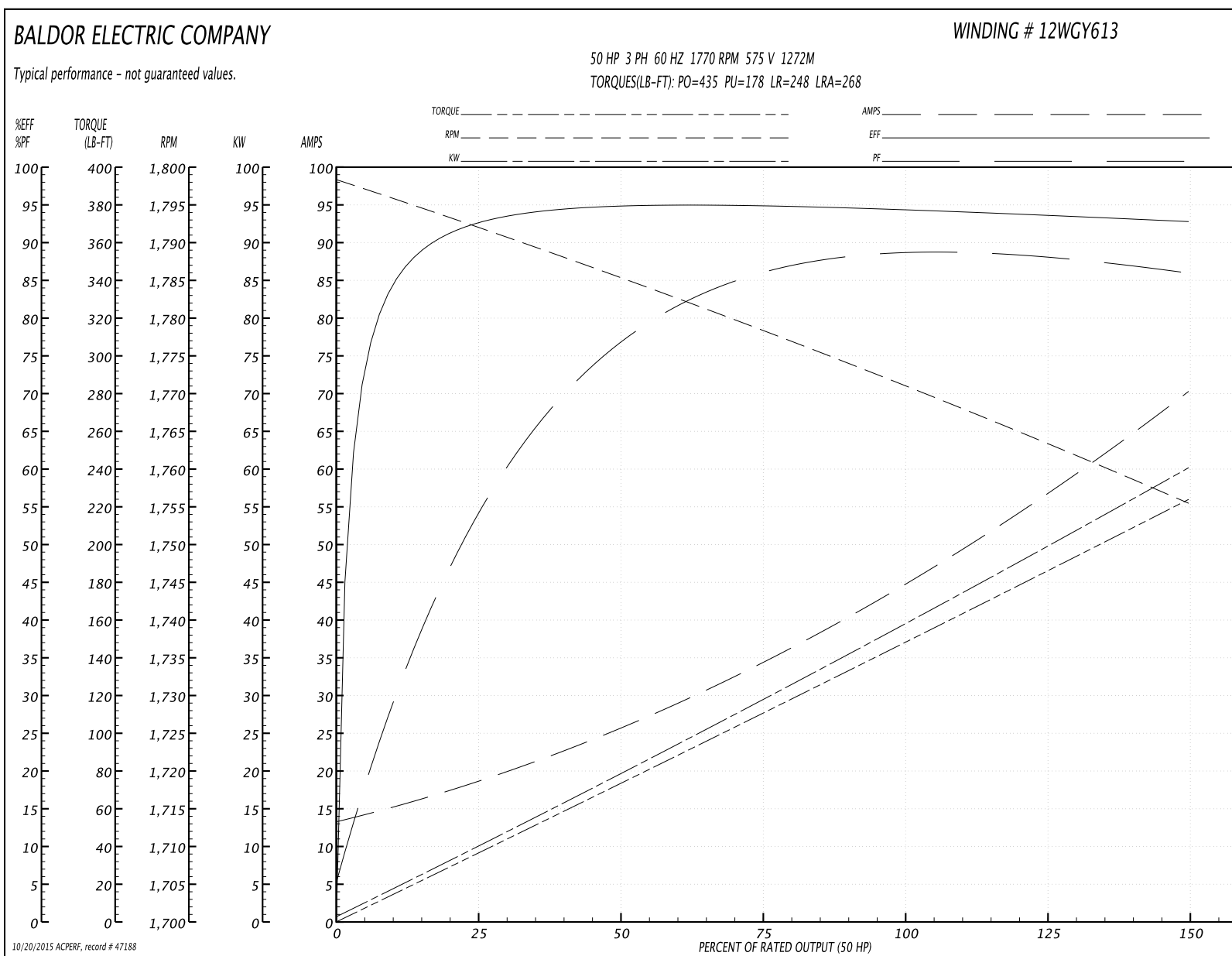
Winding: 12WGY613-R006	Type: 1272M	Enclosure: TEFC
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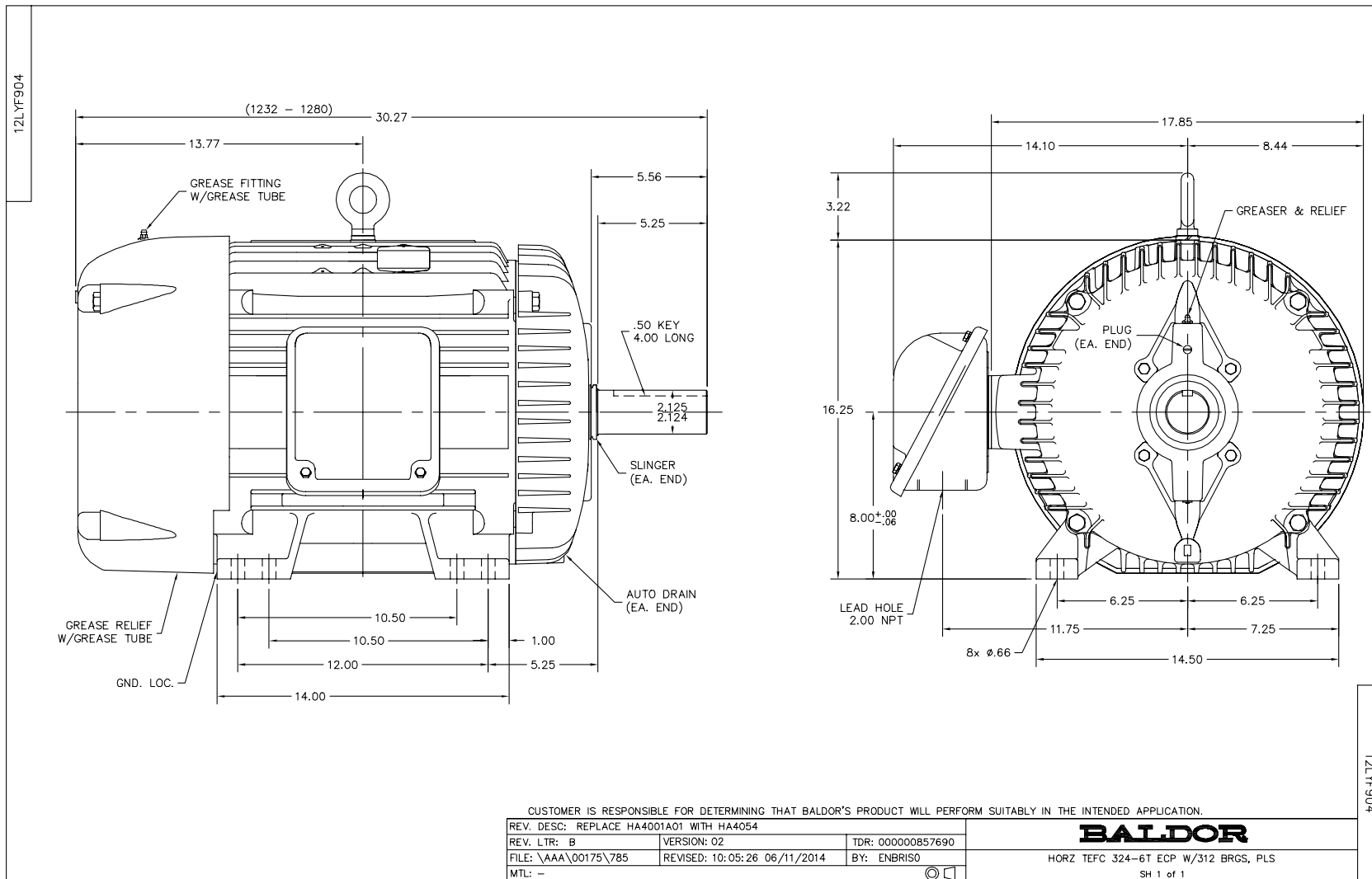
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	50			Full Load Torque	148 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	45			Breakdown Torque	435 LB-FT
R.P.M.	1770			Pull-up Torque	178 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	248 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	268 A
Service Factor (S.F.)	1.15			No-load Current	14.2 A
NEMA Nom. Eff.	94.5	Power Factor	87	Line-line Res. @ 25°C	0.186 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	61°C
S.F. Amps				Temp. Rise @ S.F. Load	75°C
				Rotor inertia	9.59 LB-FT ²

Load Characteristics 575 V, 60 Hz, 50 HP

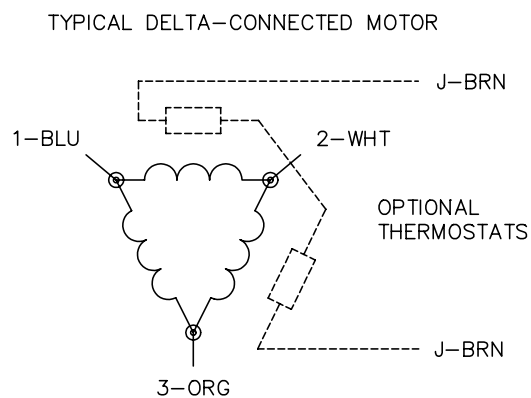
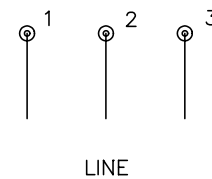
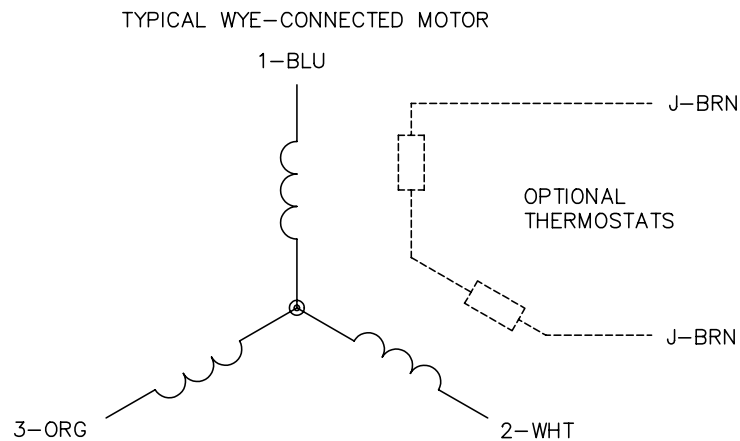
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	59	79	85	87	88	87	88
Efficiency	92.3	94.8	95	94.5	93.8	92.7	94
Speed	1791	1785	1779	1771	1764	1755	1767
Line amperes	17.4	25.3	34.6	45.4	57	69.8	52.4

Performance Graph at 575V, 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