

BALDOR® • RELIANCE

Product Information Packet

EM2555T-5

100HP,1780RPM,3PH,60HZ,404T,4484M,OPSB,F

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	4484M	Elec. Spec:	44WGW315	CD Diagram:	CD0006
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	44E012	Layout:	44LYE012
Frame:	404T	Mounting:	F1	Poles:	04	Created Date:	08-06-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	12-07-2016
Leads:	3#4					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2138L

CAT.NO.	EM2555T-5		P/N			ENCLOSURE	OPSB	
SPEC.	44E012W315G1	CC	010A	FRAME	404T	S/N		
HP	100	CLASS	F	HZ	60			
RPM	1780	PH	3	DES	A			
VOLT	575	KVA-CODE	H	ODE BRG	6312	DE BRG	6316	
AMP	93	USABLE AT 208V						
RATING	40C AMB-CONT		GREASE	POLYREX EM				
NEMA-NOM-EFF	95.4	PF	83	SER.F.	1.15			
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.				

Parts List		
Part Number	Description	Quantity
SA201363	SA 44E012W315G1	1.000 EA
RA188662	RA 44E012W315G1	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	1.000 EA
HA6731	LIFTING LUG FOR 44 FRAME MOTORS.	2.000 EA
HA6648A01	CAST ADAPTER, 44 FRAME - NEMA 404-5 - MA	1.000 EA
19XW3816A16	.38-16 X 1.00 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	2.000 EA
18CB1006A04	CB 318 3.62 LD HOLE, .38 MTG HOLE & 3.88	1.000 EA
19XW3118A16	.31-18 HEX WASHER HEAD TAPTITE II 1.00 L	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
10XN3118K08	5/16-18 X .50 GRADE #5, STL, ZINC PLATE	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 EA
44EP1203A02	FREP, MACH	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 EA
10XN3816K48	3/8-16 X 3 HEX HD CAP SCREW,Z/P	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
44EP1202A01	PU ENDPLATE, MACH.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 EA
18CB1506A01	CB LID 318 FOR 18CB1006	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

Parts List (continued)		
Part Number	Description	Quantity
HW2501K66	KEY, 3/4 SQ X 5.625	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.030 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
44AD2001A01	BAFFLE 44 OPEN,"X"=1.00, SLOTTED BAND MT	1.000 EA
44AD2001A01	BAFFLE 44 OPEN,"X"=1.00, SLOTTED BAND MT	1.000 EA
HA3175A04	THRUBOLT STUD 1/2-13 X 26.000 - GRADE 2	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP2138L	ALUM SUPER-E UL CSA-EEV PREM CC (300	1.000 EA
44PA1000	PK GP COMB PRINT 39-3/8X31X23-7/8	1.000 EA

AC Induction Motor Performance Data

Record # 32035 - Typical performance - not guaranteed values

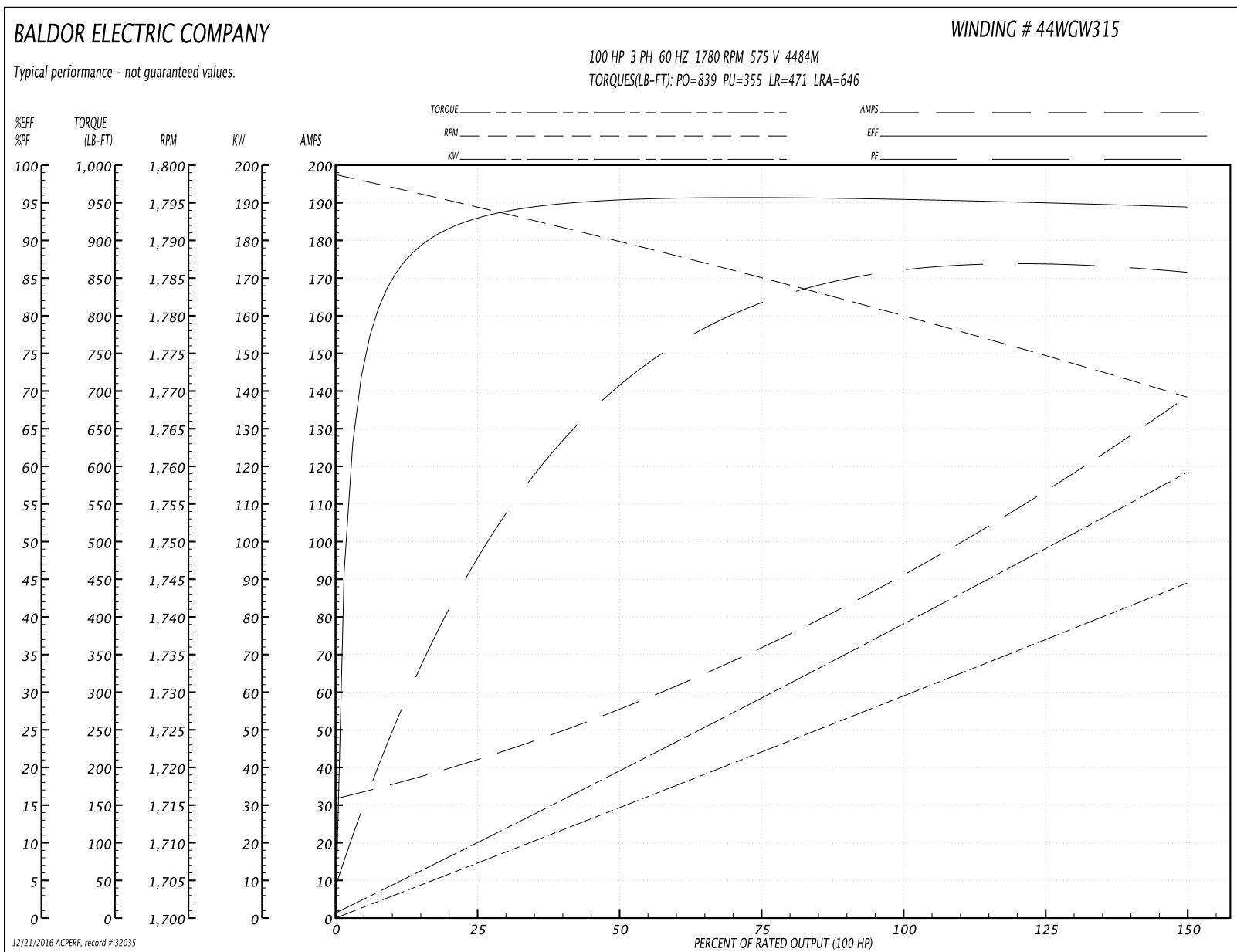
Winding: 44WGW315-R001	Type: 4484M	Enclosure: OPSB
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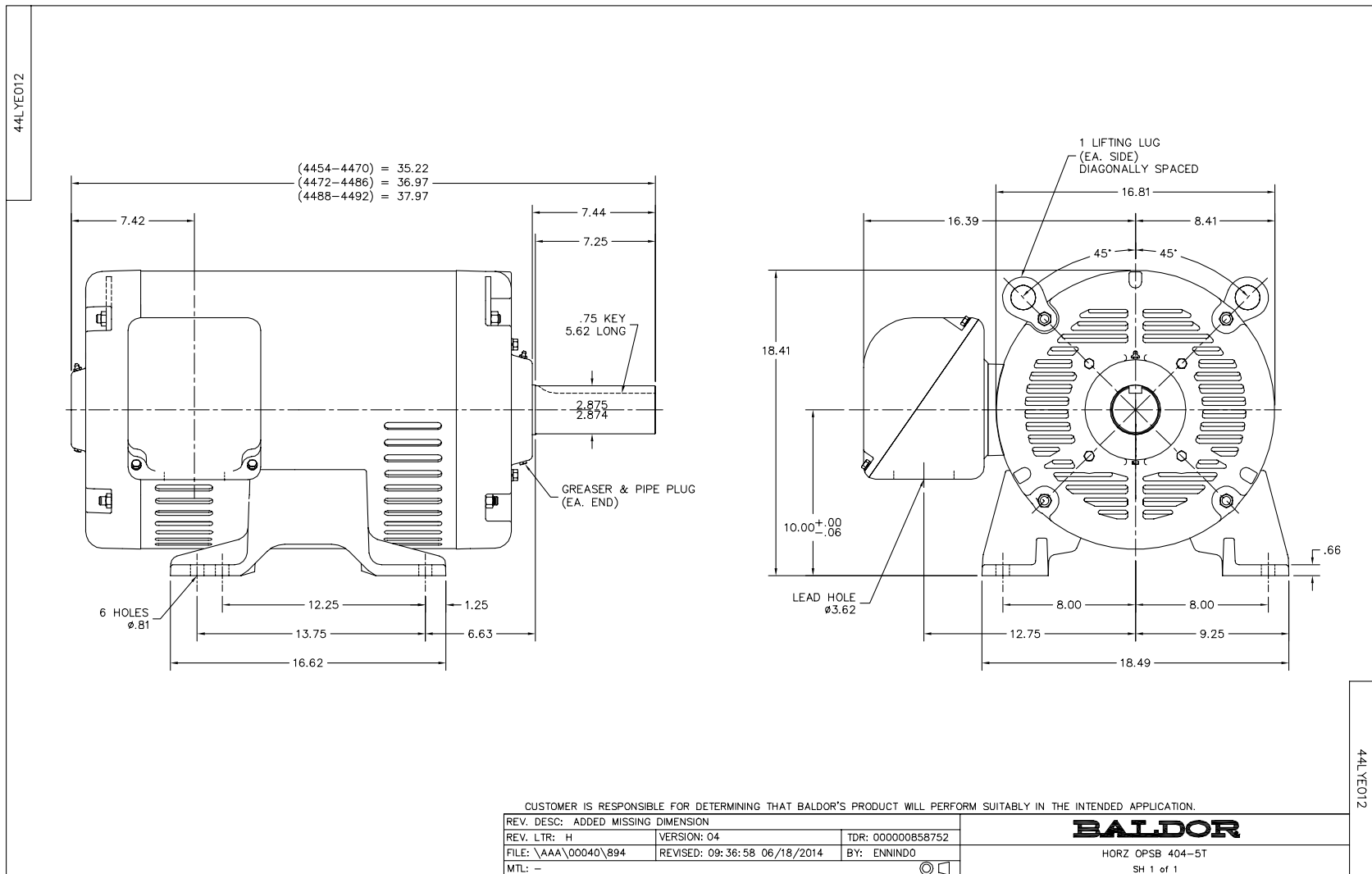
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	100			Full Load Torque	295 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	93			Breakdown Torque	839 LB-FT
R.P.M.	1780			Pull-up Torque	355 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	471 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	646 A
Service Factor (S.F.)	1.15			No-load Current	33.5 A
NEMA Nom. Eff.	95.4	Power Factor	83	Line-line Res. @ 25°C	0.0697 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	57°C
				Locked-rotor Power Factor	25
				Rotor inertia	15.9 LB-FT ²

Load Characteristics 575 V, 60 Hz, 100 HP

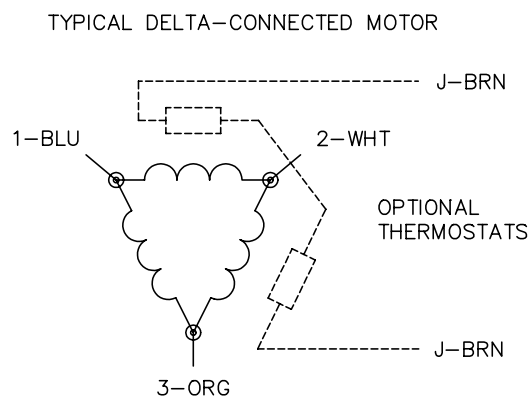
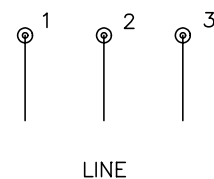
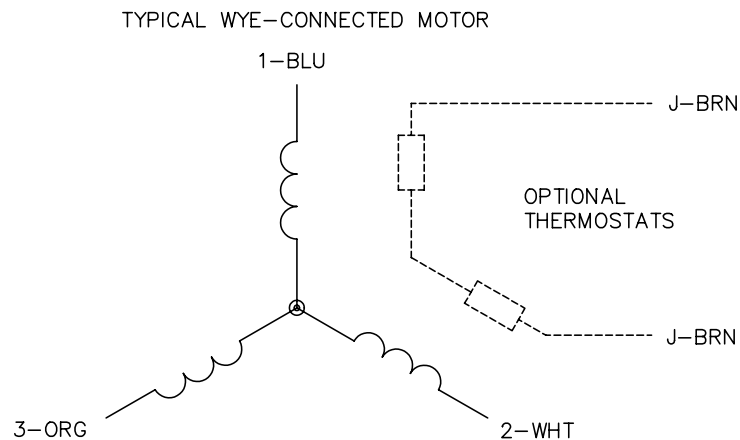
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	73	81	85	86	87	86
Efficiency	92.6	95.4	95.6	95.5	95.1	94.4	95.3
Speed	1794	1790	1785	1780	1775	1769	1777
Line amperes	40.1	53.9	72.1	92.7	115	137	106

Performance Graph at 575V, 60Hz, 100.0HP 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