

BALDOR® • RELIANCE

Product Information Packet

M3709T

7.5HP,3450RPM,3PH,60HZ,213T,3640M,TEFC

Part Detail							
Revision:	T	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3640M	Elec. Spec:	36WGX875	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	36H455	Layout:	36LYH455
Frame:	213T	Mounting:	F1	Poles:	02	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	06-03-2009
Leads:	9#16					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L									
CAT.NO.	M3709T								
SPEC.	36H455X875H1								
HP	7.5								
VOLTS	208-230/460								
AMP	18.5-17.4/8.7								
RPM	3450								
FRAME	213T	HZ			60	PH		3	
SER.F.	1.15	CODE			M	DES		A	CLASS
NEMA-NOM-EFF	88.5	PF			93				
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V			18.5				
DE	6307	ODE			6205				
ENCL	TEFC	SN							

Parts List		
Part Number	Description	Quantity
SA036441	SA 36H455X875H1	1.000 EA
RA032467	RA 36H455X875H1	1.000 EA
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
36CB3000SP	CONDUIT BOX, CAST	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	003SS CUP WASHER, FOR #8 SCREW	1.000 EA
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36EP3103A02	SPL PU ENDPLATE ENCL 307 BRG W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
36FH4009A102	IEC FH GREASER W/AUTOPHERETIC PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4514	35 LIPPED CB LID	1.000 EA
36GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK #SV-3	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.022 GA
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 EA
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
G0PA1000	SPCL PACKAGING	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 11137 - Typical performance - not guaranteed values

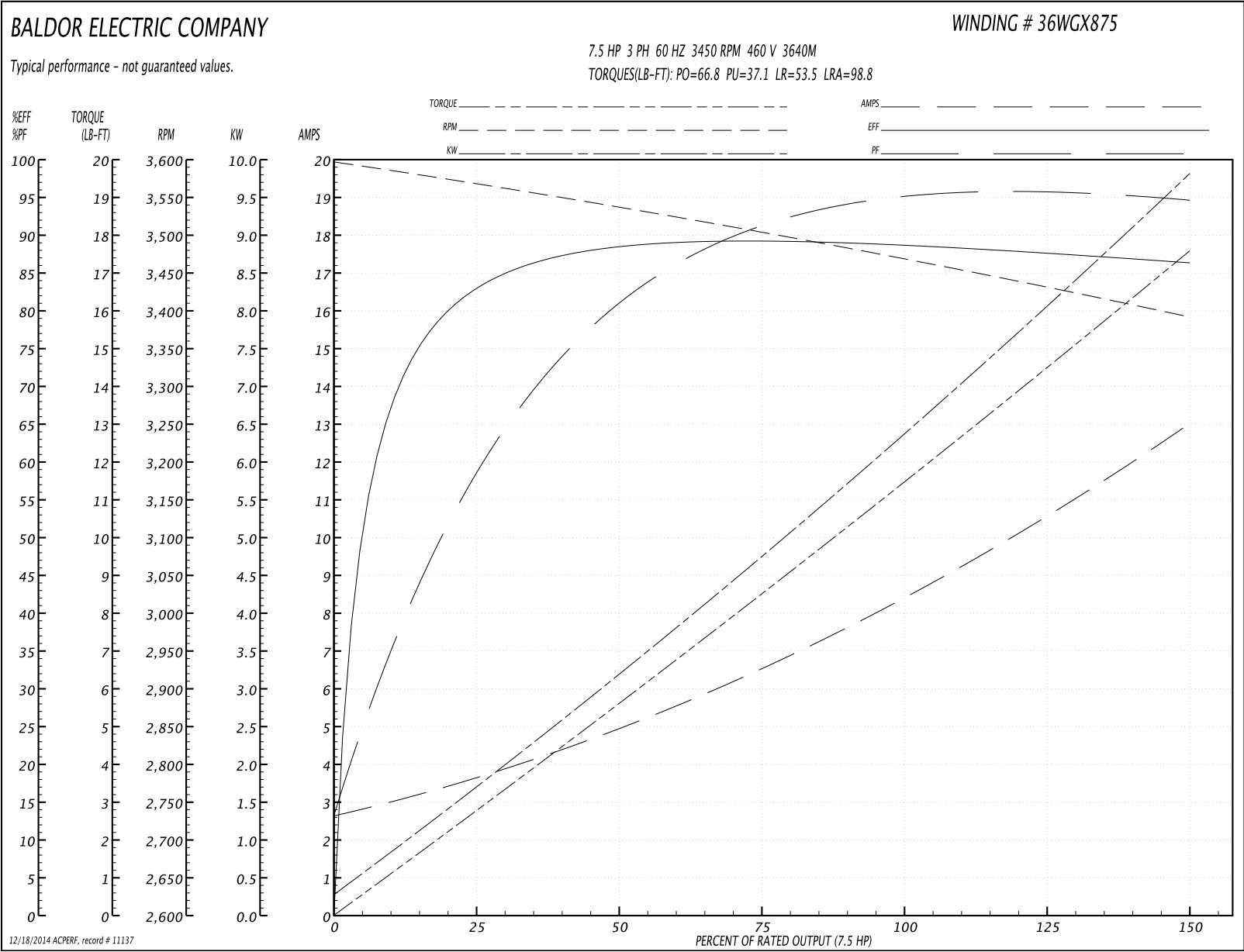
Winding: 36WGX875-R001	Type: 3640M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	11.5 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	18.5-17.4/8.7			Breakdown Torque	66.8 LB-FT
R.P.M.	3450			Pull-up Torque	37.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	53.5 LB-FT
NEMA Design Code	A	KVA Code	M	Starting Current	98.8 A
Service Factor (S.F.)	1.15			No-load Current	2.78 A
NEMA Nom. Eff.	88.5	Power Factor	93	Line-line Res. @ 25°C	1.45 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	74°C
S.F. Amps				Temp. Rise @ S.F. Load	91°C
				Rotor inertia	0.178 LF ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	83	91	94	95	96	95
Efficiency	83.3	88.4	89.3	88.7	87.6	86.1	88
Speed	3564	3535	3506	3468	3432	3391	3446
Line amperes	3.51	4.89	6.61	8.52	10.7	12.9	9.83

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 20871 - Typical performance - not guaranteed values

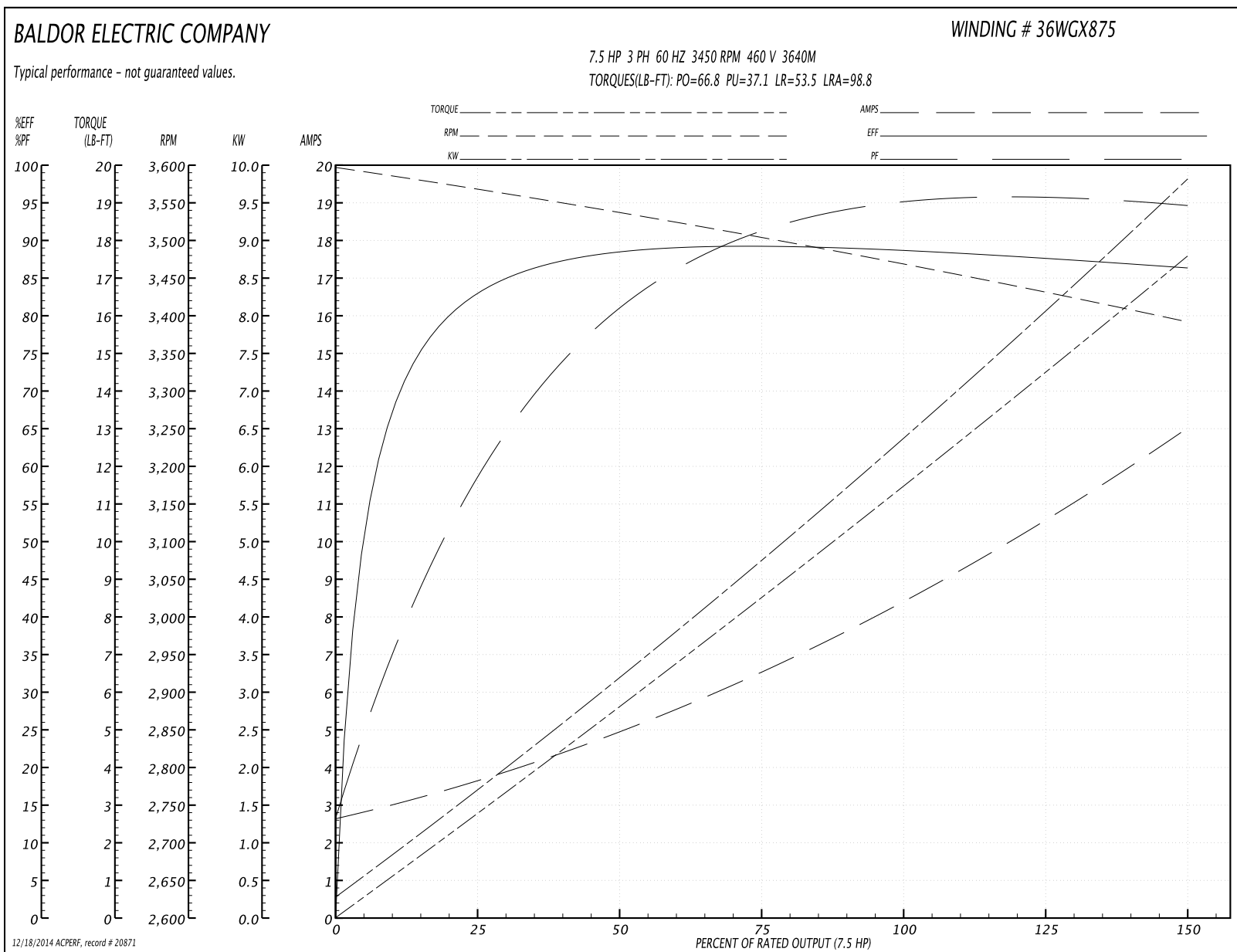
Winding: 36WGX875-R004	Type: 3640M	Enclosure: TEFC
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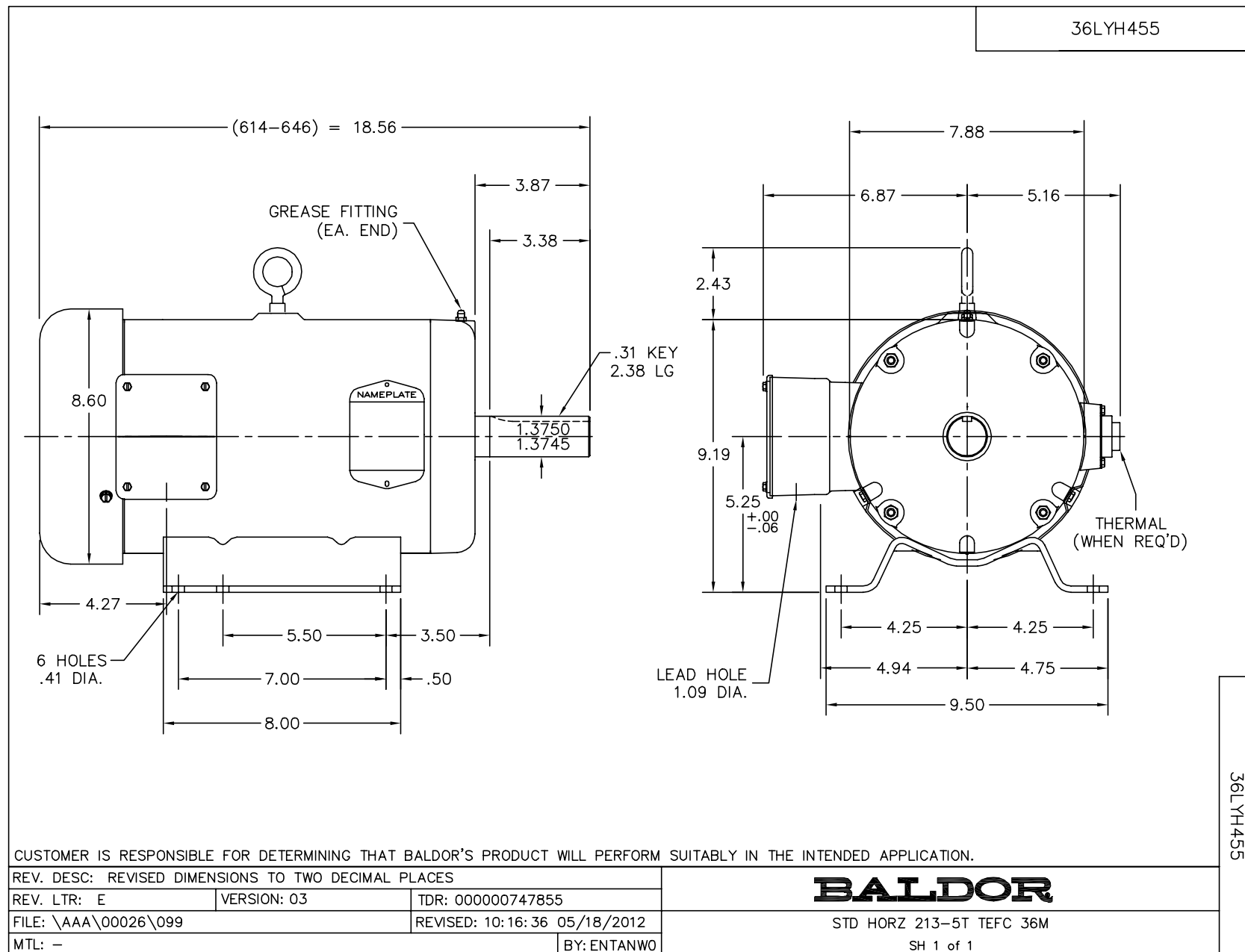
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Full Load Amps	18.5-17.4/8.7			Breakdown Torque	66.8 LB-FT
R.P.M.	3450			Pull-up Torque	37.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	53.5 LB-FT
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NEMA Nom. Eff.	88.5	Power Factor	93	Line-line Res. @ 25°C	1.45 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	74°C
S.F. Amps				Temp. Rise @ S.F. Load	91°C
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Load Characteristics 460 V, 60 Hz, 7.5 HP

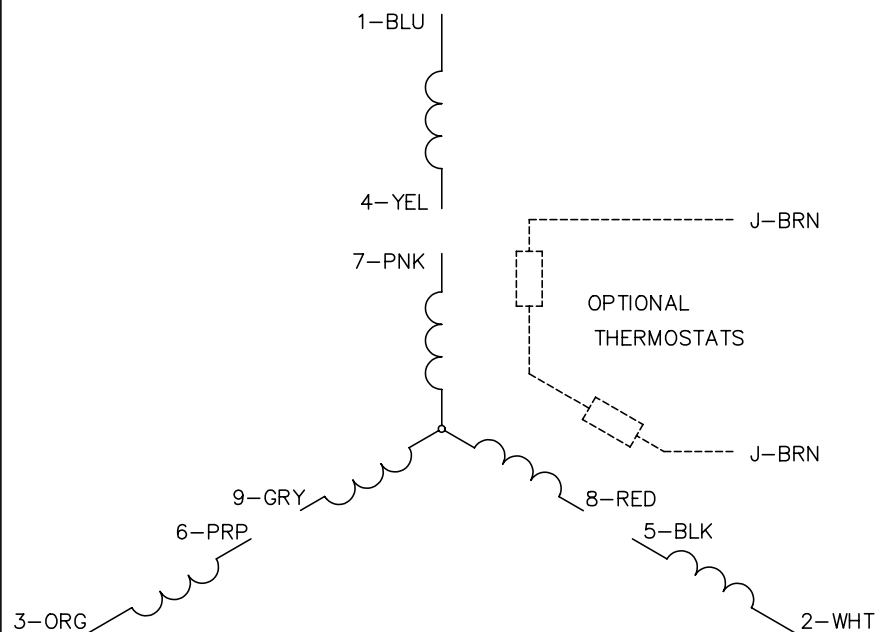
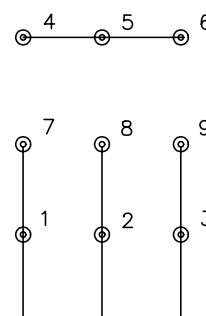
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Efficiency	83.3	88.4	89.3	88.7	87.6	86.1	88
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Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values

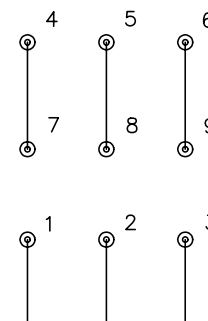




CD0005

LOW VOLTAGE
(2Y)

LINE

HIGH VOLTAGE
(1Y)

LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E

BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005