

# **BALDOR® • RELIANCE**

**Product Information Packet**

**ELECTRIC MOTOR WHOLESAL.COM**

**CM3709T**

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

Part Detail							
Revision:	Q	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3640M	Elec. Spec:	36WGX875	CD Diagram:	
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	36H862	Layout:	
Frame:	213TC	Mounting:	F1	Poles:	02	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	04-24-2007
Leads:	9#16	Literature:		Elec. Diagram:		Replaced By:	

Nameplate NP1256L									
CAT.NO.	CM3709T								
SPEC.	36H862X875H1								
HP	7.5								
VOLTS	208-230/460								
AMP	18.5-17.4/8.7								
RPM	3450								
FRAME	213TC	HZ			60	PH	3		
SER.F.	1.15	CODE			M	DES	A	CLASS	F
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
SA036887	SA 36H862X875H1	1.000 EA
RA032912	RA 36H862X875H1	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
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD 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
36EP3305A01	SPL PU ENDPLATE 182-184TC-ENCL-FOR 307 B	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
10XN2520A32	1/4 X 2 HEX HEAD CAP SCR, GRADE 2	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
36FH4009A102SP	IEC FH GREASER W/AUTOPHERETIC PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
36CB4516	36 LIPPED CB LID	1.000 EA
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	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

Parts List (continued)		
Part Number	Description	Quantity
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
LB1115	LABEL,LIFTING DEVICE	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON	0.050 LB
MG1000G27	PAINT- S9282E CHARCOAL 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/LB1119)	1.000 EA
NP1256L	ALUM, UL CSA CC, W/O THERMAL, LASER	1.000 EA
36PA1001	PACKAGING GROUP	1.000 EA

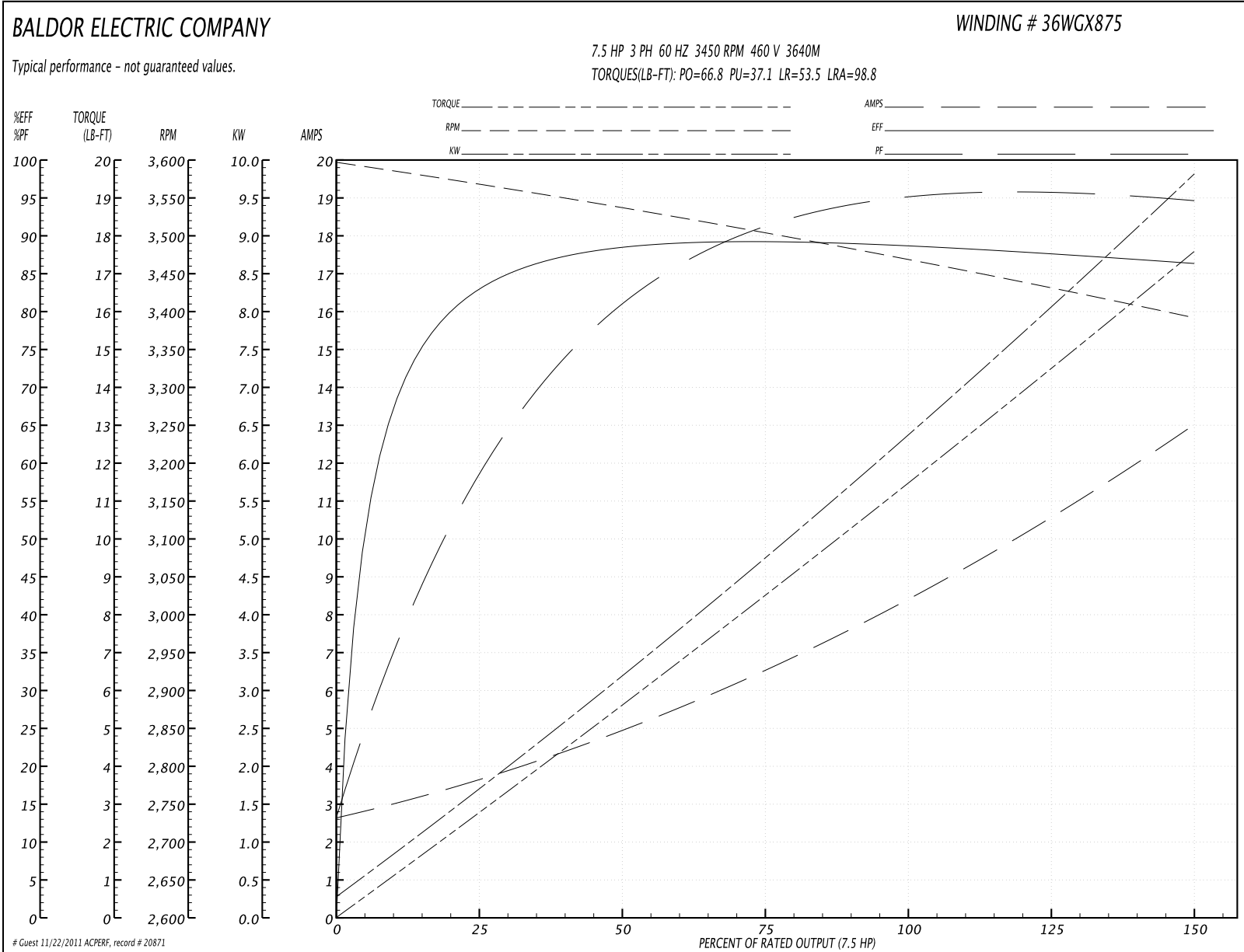
**Performance Data at 460V, 60Hz, 7.5HP (Typical performance - Not guaranteed values)**
**General Characteristics**

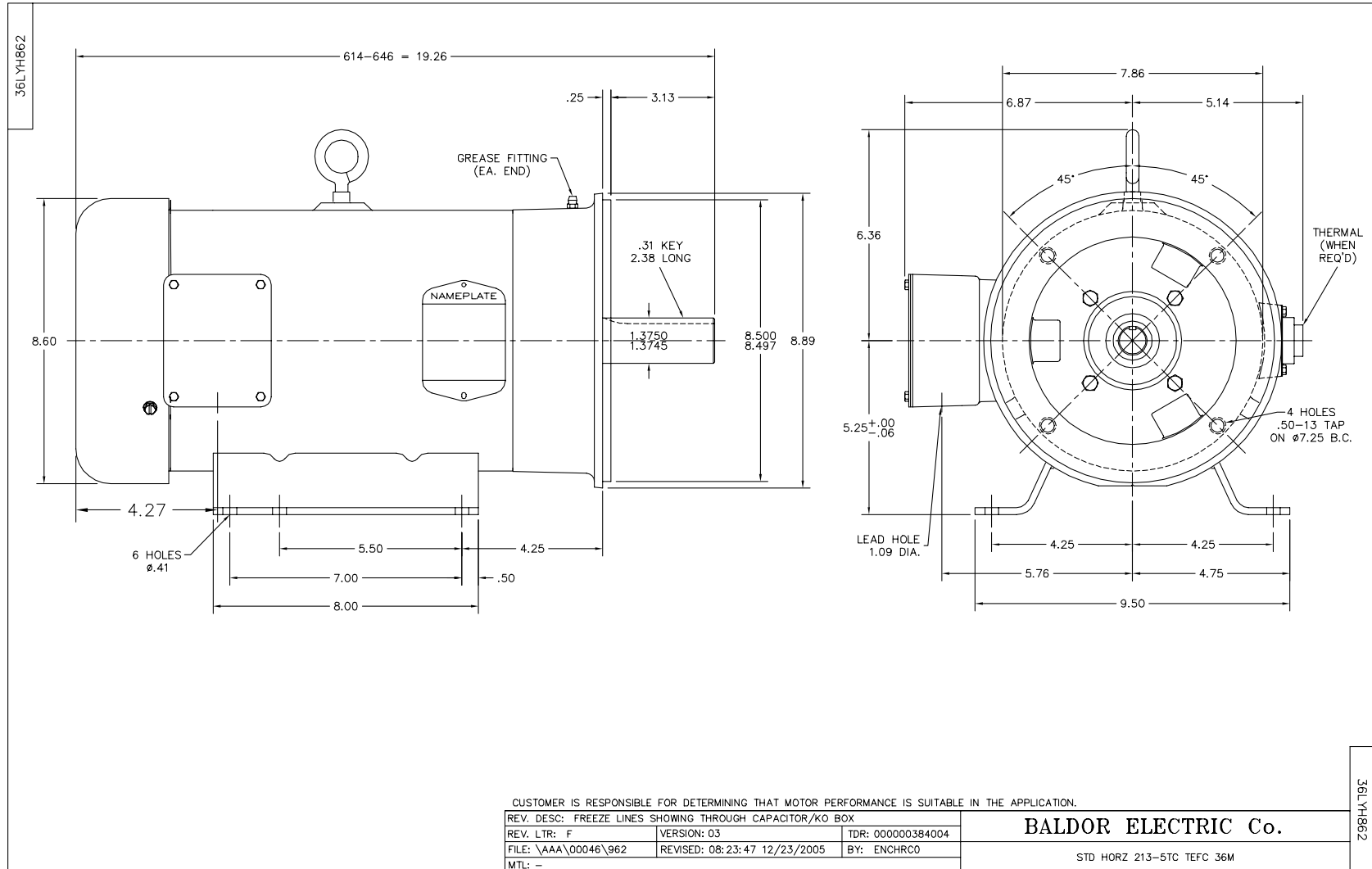
<b>Full Load Torque:</b>	11.5 LB-FT	<b>Start Configuration:</b>	DOL
<b>No-Load Current:</b>	2.78 Amps	<b>Break-Down Torque:</b>	66.8 LB-FT
<b>Line-line Res. @ 25°C.:</b>	1.45 Ohms A Ph / 0.0 Ohms B Ph	<b>Pull-Up Torque:</b>	37.1 LB-FT
<b>Temp. Rise @ Rated Load:</b>	74 C	<b>Locked-Rotor Torque:</b>	53.5 LB-FT
<b>Temp. Rise @ S.F. Load:</b>	91 C	<b>Starting Current:</b>	98.8 Amps

**Load Characteristics**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor:</b>	63.0	83.0	91.0	94.0	95.0	96.0	95.0
<b>Efficiency:</b>	83.3	88.4	89.3	88.7	87.6	86.1	88.0
<b>Speed:</b>	3564.0	3535.0	3506.0	3468.0	3432.0	3391.0	3446.0
<b>Line Amperes:</b>	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





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
9000D		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005