

BALDOR® • RELIANCE

Product Information Packet

EHM3710T

7.5HP,1770RPM,3PH,60HZ,213T,3736M,TEFC,F

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3736M	Elec. Spec:	37WGT859	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37J543	Layout:	37LYJ543
Frame:	213T	Mounting:	F1	Poles:	04	Created Date:	01-11-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	02-22-2013
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2094E06B03										
CAT.NO.	EHM3710T									
SPEC.	37J543T859G1									
HP	7.5									
VOLTS	208-230/460									
AMPS	21-18.8/9.4									
RPM	1770									
FRAME	213T	HZ			60	PH		3		
SER.F.	1.15	CODE			J	DES		A	CL	F
NEMA-NOM-EFF	91.7	PF			81					
RATING	40C AMB-CONT									
CC	010A	USABLE AT 208V			21					
DE	6307	ODE			6206					
AUTO	N	MANUAL			N	NONE		Y		
ENCL	TEFC	SN								
BLANK										

Parts List		
Part Number	Description	Quantity
SA189677	SA 37J543T859G1	1.000 EA
RA177385	RA 37J543T859G1	1.000 EA
37FN3002C01	EXFN, PLASTIC, 6.00 OD, 1.155 ID	1.000 EA
S/P107-000-001	SUPER E PROC'S-FS, WS & CK PLTS	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 EA
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
37EP3101A01SP	FR ENDPLATE,TEFC, 37 L&M, W/GREASER	1.000 EA
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP3100B20	PUEP ENCL "T"-307 BRG, W/GRSR	1.000 EA
91XN0540J08	SCREW, 5-40 X 1/2", FHC, AS	2.000 EA
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
07FH4007SP	IEC FH W/GRSR, NOTCH @ 6:00 & 3 FAN CVR	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 EA
37GS1008SP	37 GS FOR CB LID - LEXIDE	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

Parts List (continued)		
Part Number	Description	Quantity
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY	0.028 GA
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 EA
LB1125C02	SUPER-E (STOCK CTN LABEL SUPER-E WITH FL	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA
36PA1001	PACKAGING GROUP	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 27682 - Typical performance - not guaranteed values

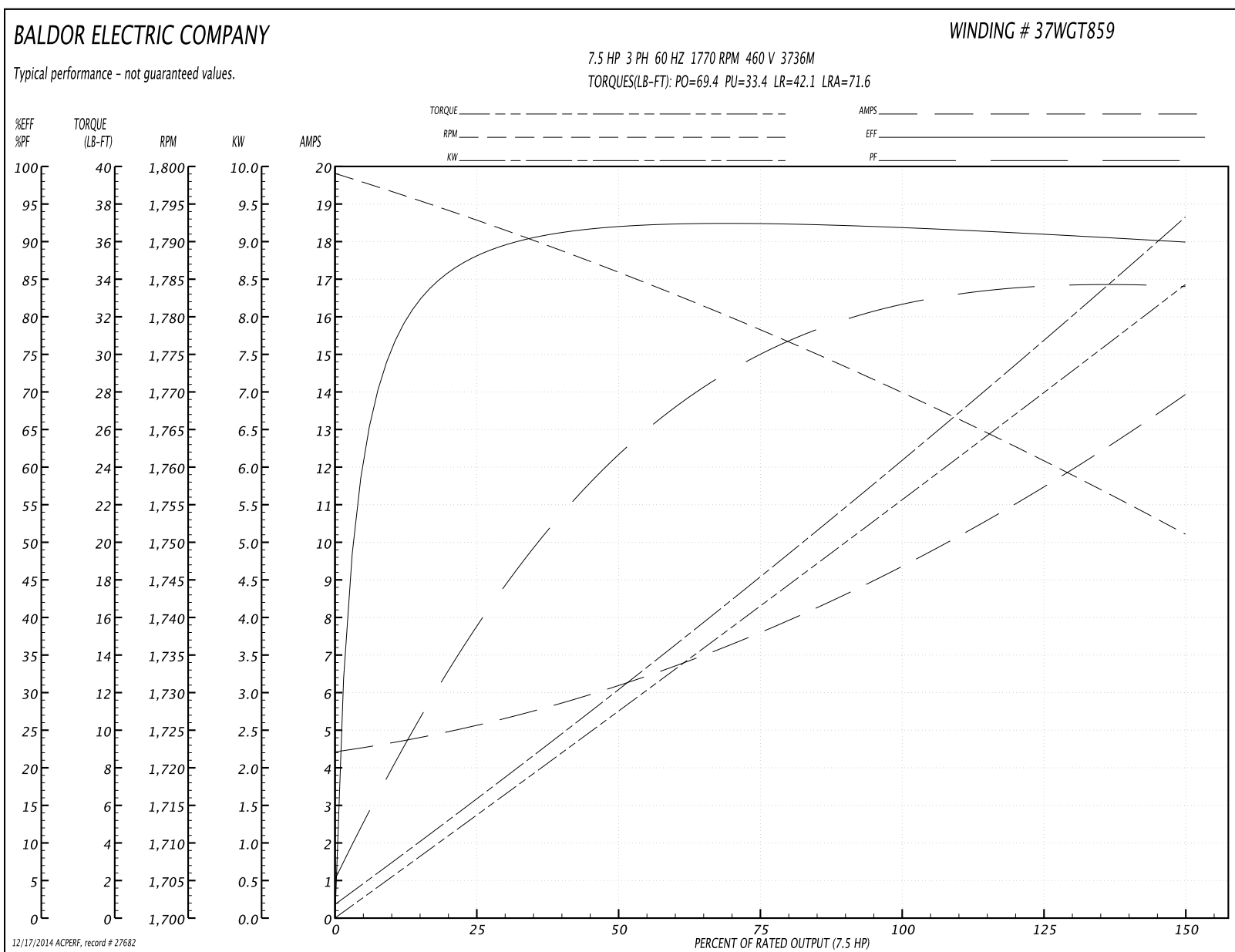
Winding: 37WGT859-R003	Type: 3736M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.25 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	21-18.8/9.4			Breakdown Torque	69.4 LB-FT
R.P.M.	1770			Pull-up Torque	33.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	42.1 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	71.6 A
Service Factor (S.F.)	1.15			No-load Current	4.46 A
NEMA Nom. Eff.	91.7	Power Factor	81	Line-line Res. @ 25°C	1.36 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	53°C
S.F. Amps				Temp. Rise @ S.F. Load	65°C
				Rotor inertia	0.885 LF ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	62	75	81	84	84	82
Efficiency	87.9	91.8	92.4	92	91.1	89.9	91.5
Speed	1793	1786	1778	1770	1761	1751	1765
Line amperes	5.1	6.13	7.62	9.39	11.5	13.9	10.7

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



AC Induction Motor Performance Data

Record # 46181 - Typical performance - not guaranteed values

Winding: 37WGT859-R003	Type: 3736M	Enclosure: TEFC
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Nameplate Data				208 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.3 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	21-18.8/9.4			Breakdown Torque	55.9 LB-FT
R.P.M.	1770			Pull-up Torque	26.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	33.3 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	127 A
Service Factor (S.F.)	1.15			No-load Current	7.29 A
NEMA Nom. Eff.	91.7	Power Factor	81	Line-line Res. @ 25°C	0.341 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	55°C
S.F. Amps				Temp. Rise @ S.F. Load	70°C
				Rotor inertia	0.885 LF ²

Load Characteristics 208 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	72	82	86	87	86	87
Efficiency	89.6	92.7	92.4	91.6	90.5	88.7	90.9
Speed	1792	1783	1774	1764	1753	1740	1757
Line amperes	8.89	11.7	15.4	19.7	24.8	30.6	22.8

Performance Graph at 208V, 60Hz, 7.5HP Typical performance - Not guaranteed values

