

BALDOR® • RELIANCE

Product Information Packet

EBM3710T-D

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

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3736M	Elec. Spec:	37WGT859	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37M908	Layout:	37LYM908
Frame:	213T	Mounting:	F1	Poles:	04	Created Date:	02-22-2013
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	04-03-2013
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2105L									
CAT.NO.	EBM3710T-D								
SPEC.	37M908T859G1								
HP	7.5								
VOLTS	208-230/460								
AMP	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				
ENCL	TEFC	SN							
	IP44								

Parts List		
Part Number	Description	Quantity
SA259259	SA 37M908T859G1	1.000 EA
RA246020	RA 37M908T859G1	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
37CB3006A12	37 CB 1.38 DIA @ 6:00, .88 DIA @ 12:00	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
WD4500A77	CORD CONN, .50 NPT,	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
07EP1901A07	FREP FOR 07FH1002A09 ASS'Y	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP3100A01SP	STD PU ENDPLATE, ENCL,37 "T"-307 BRG, W/	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
BR2004E01	BRK HUB,1.12 DIA JRNL W/.25 KEY (032416)	1.000 EA
10XN3816K64	3/8-16X4 HX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
WD4006A01	WIRE JOINT,T&B RB-4 OR RB-44	1.000 EA
HA6A33A01	ADAPTER 182-4T FOR D-SERIES BRK (024448)	1.000 EA
84XN5013J16S	1/2-13 X 1 LOW HEAD HEX SOC HD, GRADE 8	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
07FH1002A09	FAN COVER, MACH FOR 07EP1901A07	1.000 EA
WD4500A77	CORD CONN, .50 NPT,	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
WD4108B06	T&B RB 121, 3/4 X 1/2 REDUCING BUSHING	1.000 EA
MR6002A02	.50 FLEX CONDUIT LIQ-TITE (STEEL/VINYL)	0.833 FT
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 EA
10XN3118A52	5/16-18 X 3-1/4 HEX HEAD CAP SCR,GR.5,Z/	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HA1103A13	#4 X 4 SCREEN FOR FAN CVR 07FH1002 (MR21	1.000 EA
13XT0832A07	8-32X7/16 TYP 23 PAN HD SLT DX	4.000 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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1419	CONNECTION LABEL	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 EA
MG1000N49	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.028 GA
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 EA
46BK0600B01	DBSC-V-25-MA-230/460 VAC	1.000 EA
LB1119N	WARNING LABEL	1.000 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
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
NP2105L	ALUM SUPER-E UL CSA-EEV CE CC	1.000 EA
37PA1067	PALLET PACK GRP COMBINED PRINT, WIDE	1.000 EA

AC Induction Motor Performance Data

Record # 27682 - Typical performance - not guaranteed values

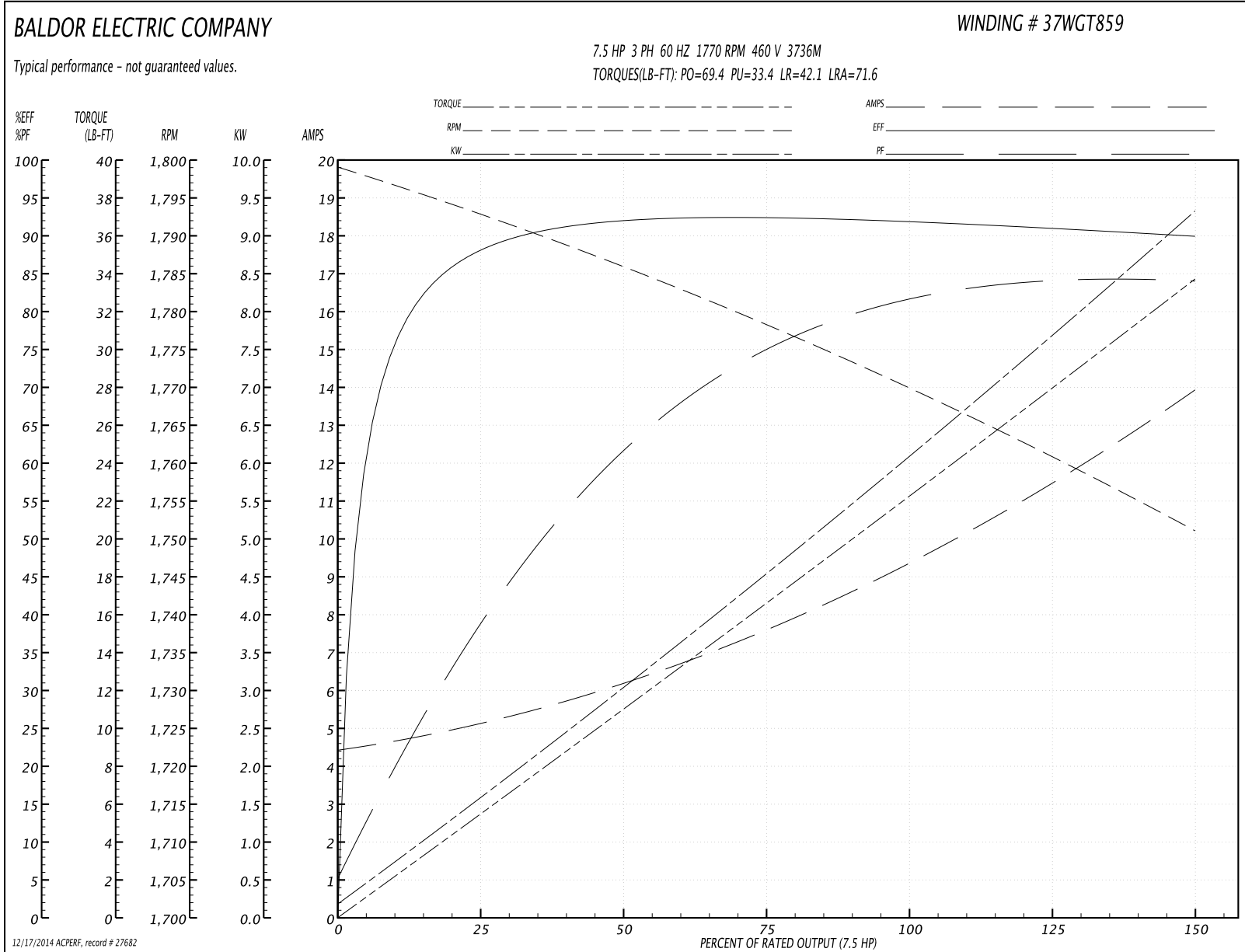
Winding: 37WGT859-R003	Type: 3736M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.25 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	21-18.8/9.4			Breakdown 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

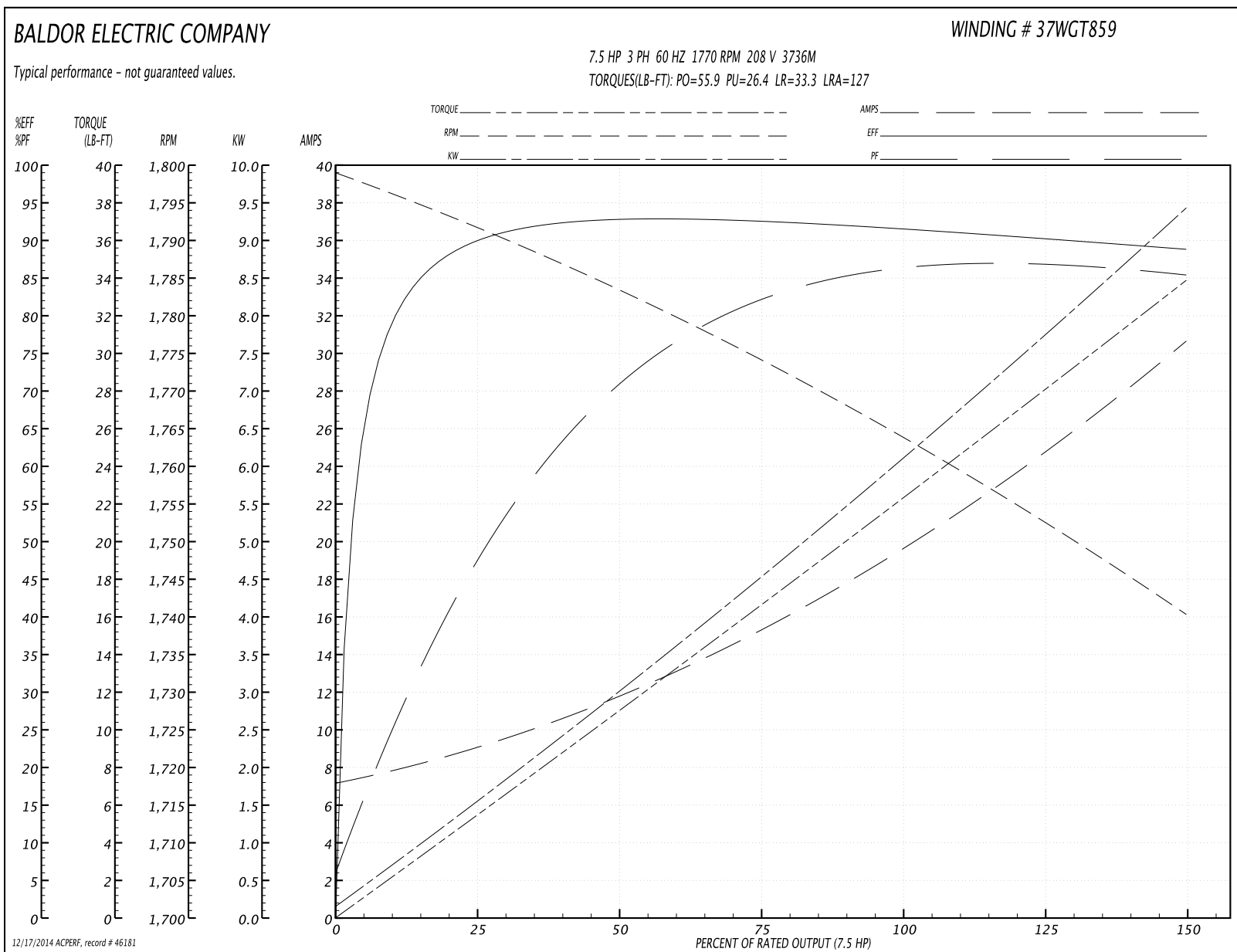
Winding: 37WGT859-R003	Type: 3736M	Enclosure: TEFC
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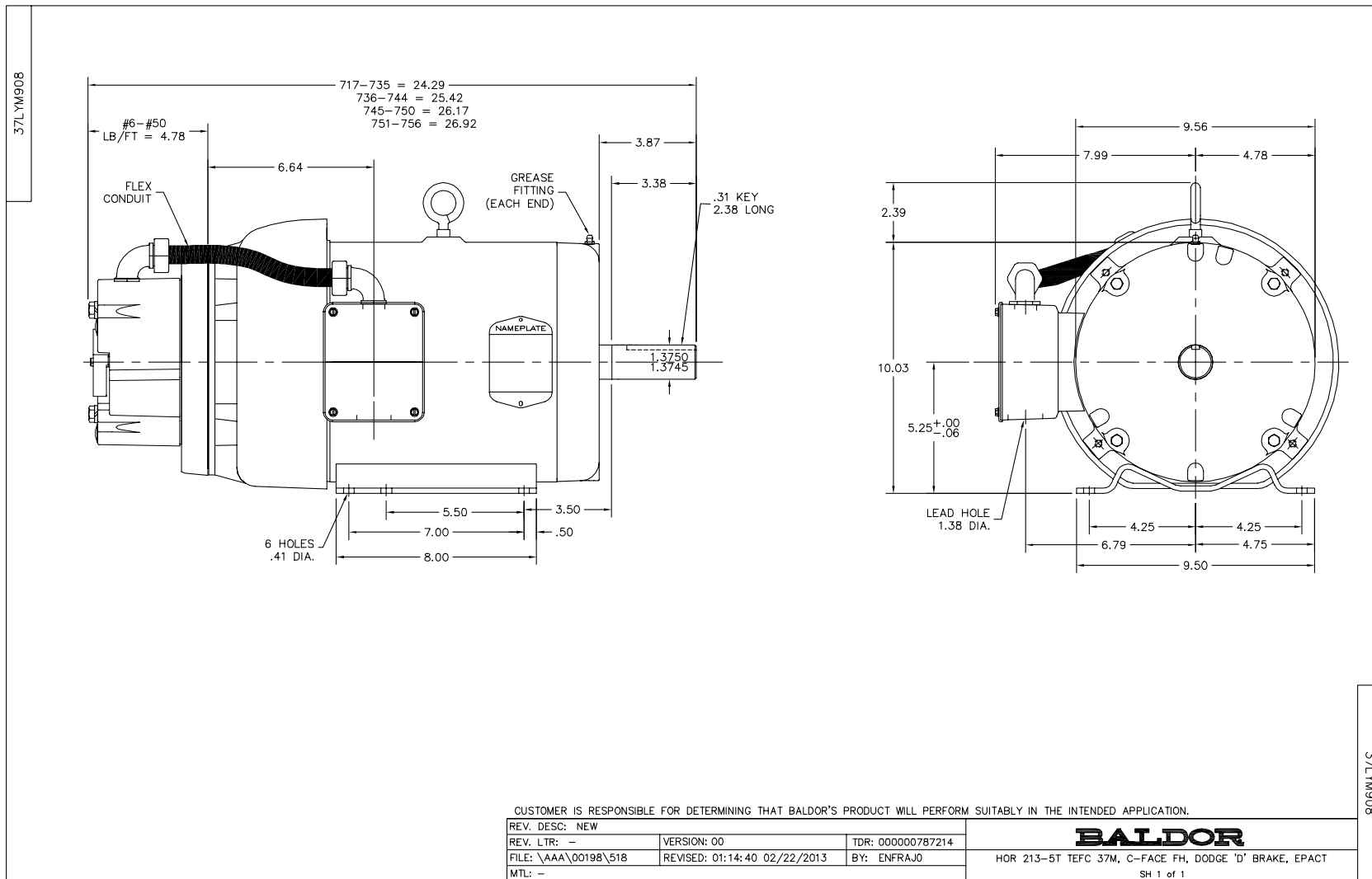
Nameplate Data				208 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.3 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	21-18.8/9.4			Breakdown Torque	55.9 LB-FT
R.P.M.	1770			Pull-up Torque	26.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	33.3 LB-FT
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

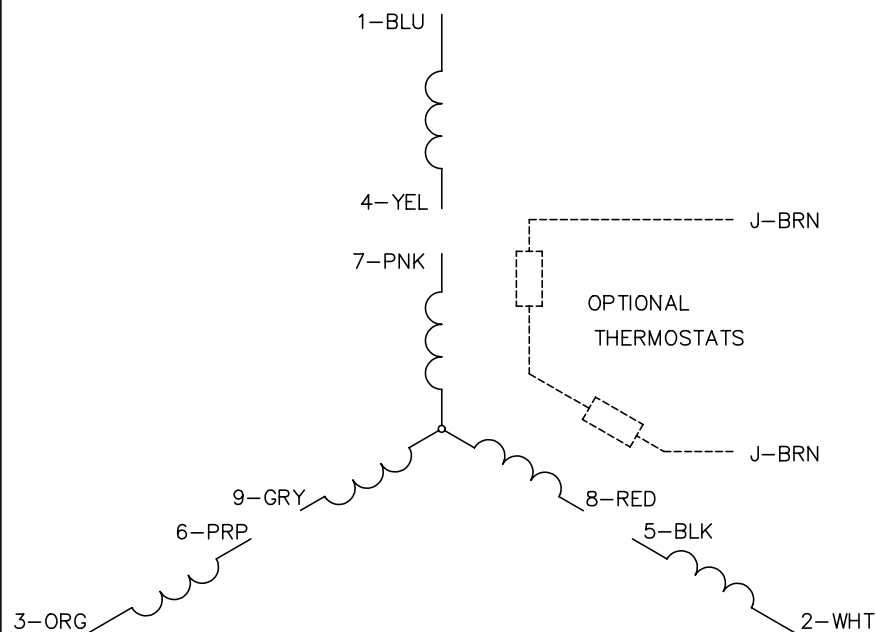
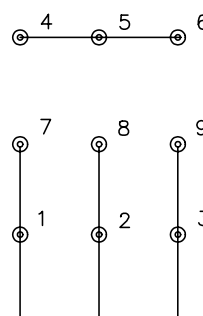
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	72	82	86	87	86	87
Efficiency	89.6	92.7	92.4	91.6	90.5	88.7	90.9
Speed	1792	1783	1774	1764	1753	1740	1757
Line amperes	8.89	11.7	15.4	19.7	24.8	30.6	22.8

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

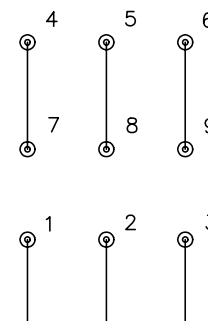




CD0005

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