

BALDOR® • RELIANCE

Product Information Packet

VM7047T-I

7.5//5HP,MOTOR-RPMRPM,3PH,60//50HZ,213TC

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3735M	Elec. Spec:	37WGY955	CD Diagram:	CD0005
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	37L973	Layout:	37LYL973
Frame:	213TC	Mounting:	F1	Poles:	04	Created Date:	11-29-2007
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	09-03-2013
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP0977XP									
NO.		TEMP CODE	T3C						
SPEC.	37L973Y955H1	DE BRG	6307						
CAT.NO.	VM7047T-I	ODE BRG	6206						
HP	7.5//5	GREASE	POLYREX EM						
VOLTS	230/460//190/380	MOTOR WEIGHT	165 LBS						
AMPS	20.4/10.2//17/8.5	NEMA-NOM-EFF	89.5						
RPM	1760//1470	FL PF	76						
CYCLE	60//50	PH	3	CL	F	FRAME	213TC		
SER.F.	1.15	DES	B	CODE	J	CC			
SER.									
RATING	40C AMB-CONT								
USABLE AT 208V	20.6								

Parts List		
Part Number	Description	Quantity
SA165827	SA 37L973Y955H1	1.000 EA
RA154218	RA 37L973Y955H1	1.000 EA
37CB1005A01	CONDUIT BOX-MACH-EXPL.PROOF-GROUP "C" MTR	1.000 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
37EP1715A05	FR EP XPFC,GROUP "C" MTRS W/SPL DRAIN	1.000 EA
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 EA
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP1708A09	PU EP X-PROOF 213-5TC W/SLINGER	1.000 EA
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 EA
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 EA
12XN2520A26	HX HD .25-20X1.625 ZN PLT	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
HW4001A02	3/8 HX SOC PIPE PLUG W/.75" TAPER (F/S)	2.000 EA
60XN1032A07	10-32 X 1/2 TRUSS HEAD, TORX SERRATED ZN	2.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
37FH4000A02SP	FAN COVER, W/ AUTOPHERETIC PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
HA2065A02	SLINGER, ALUM MODLE 36 & 37 DRILL RIG MT	1.000 EA
80XN1032A07	SET SCREW, HEX XOCK, ZN	1.000 EA
37CB1502A01	CONDUIT BOX LID-MACH-EXPL.PROOF-GROUP "C	1.000 EA
RM1020A42	O-RING, -154 BUNA-N, .103 CS X 3.737 ID	1.000 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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1359	ALUM XP CAUTION 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
MG1025Z20	ACTIVATOR WILKOFAS 060.32	0.010 GA
MG1025G29	MUNSELL 4.5Y 5.3/0.7 DARK CHARCOAL GREY	0.028 GA
HA3106A04	THRUBOLT- 1/2-13 X 12.625	4.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1172A01	CUSTOM MTR CARTON LABEL LASER PRINTER	1.000 EA
NP0977XP	BR XP UL CSA CC CL-I GP-C&D	1.000 EA
37PA1052	PALLET PACK GRP, 150 LB MTR 2 X 4 RUNNER	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 36632 - Typical performance - not guaranteed values

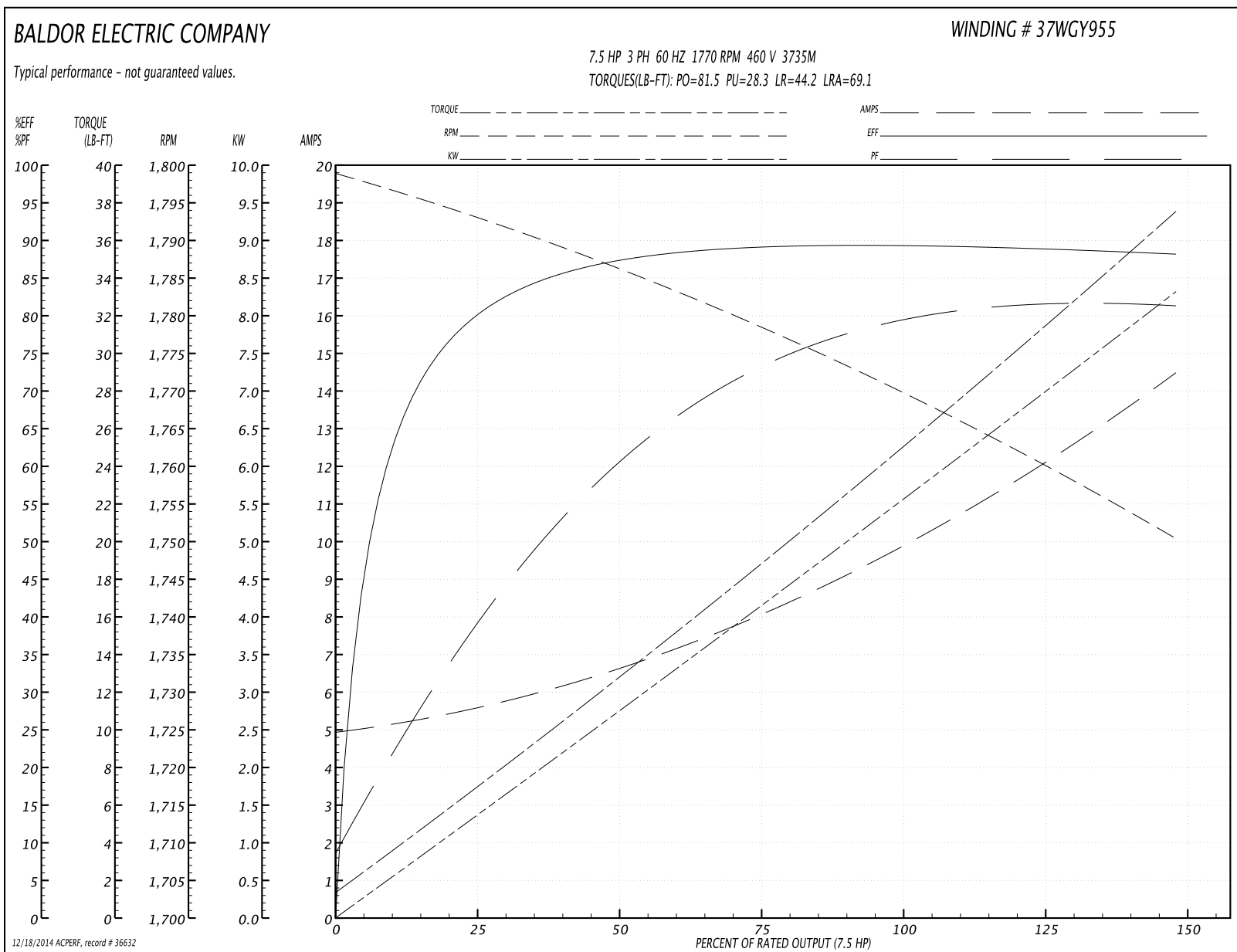
Winding: 37WGY955-R019	Type: 3735M	Enclosure: XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5//5			Full Load Torque	22.2 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	20.4/10.2//17/8.5			Breakdown Torque	81.5 LB-FT
R.P.M.	1760//1470			Pull-up Torque	28.3 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	44.2 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	69.1 A
Service Factor (S.F.)	1.15			No-load Current	5.04 A
NEMA Nom. Eff.	89.5	Power Factor	76	Line-line Res. @ 25°C	1.23 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	58°C
S.F. Amps				Temp. Rise @ S.F. Load	70°C
				Rotor inertia	0.861 LF ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	62	73	78	81	82	80
Efficiency	79.4	87	89.3	89.4	89.2	88	89.3
Speed	1793	1786	1778	1770	1761	1750	1765
Line amperes	5.48	6.55	8.1	10	12.1	14.4	11.3

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



AC Induction Motor Performance Data

Record # 36633 - Typical performance - not guaranteed values

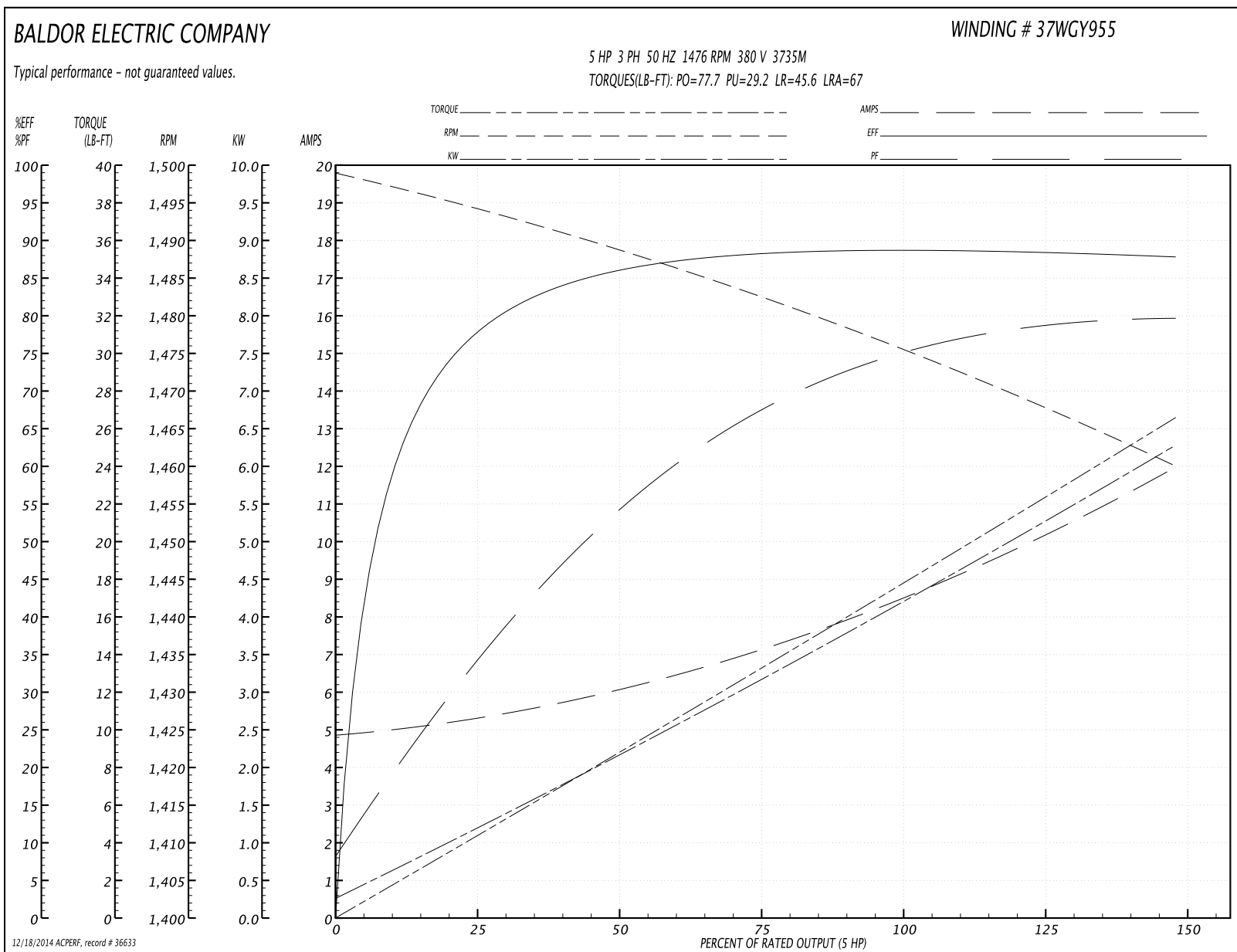
Winding: 37WGY955-R019	Type: 3735M	Enclosure: XPFC
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Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	7.5//5			Full Load Torque	17.7 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	20.4/10.2//17/8.5			Breakdown Torque	77.7 LB-FT
R.P.M.	1760//1470			Pull-up Torque	29.2 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	45.6 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	67 A
Service Factor (S.F.)	1.15			No-load Current	4.93 A
NEMA Nom. Eff.	89.5	Power Factor	76	Line-line Res. @ 25°C	1.23 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	45°C
S.F. Amps				Temp. Rise @ S.F. Load	54°C
				Rotor inertia	0.861 LF ²

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	67	74	78	80	76
Efficiency	77.3	85.8	88.3	88.9	88.6	87.7	88.7
Speed	1494	1489	1482	1476	1468	1460	1471
Line amperes	5.24	6.01	7.14	8.54	10.2	11.9	9.54

Performance Graph at 380V, 50Hz, 5.0HP Typical performance - Not guaranteed values



12/18/2014 ACPERF, record # 36633

