

BALDOR® • RELIANCE

Product Information Packet

VEM7047T-I

7.5//5HP, 1770//1475RPM, 3PH, 60//50HZ, 213T

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3738M	Elec. Spec:	37WGR872	CD Diagram:	CD0005
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	37L973	Layout:	37LYL973
Frame:	213TC	Mounting:	F1	Poles:	04	Created Date:	12-09-2015
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	06-21-2016
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP0977XPSLEV										
NO.							CC	010A		
SER.							TEMP CODE	T3C		
SPEC.	37L973R872G1									
CAT.NO.	VEM7047T-I									
HP	7.5//5 55C AMB @ 1.0SF									
VOLTS	230/460//190/380									
AMPS	19/9.5//16.2/8.1									
RPM	1770//1475 75C RISE						MOTOR WEIGHT	163		
HERTZ	60//50	PH	3	CL	F	DE BRG	6307			
SER.F.	1.15	DES	A	CODE	J	ODE BRG	6206			
FRAME	213TC		GREASE	POLYREX EM						
RATING	40C AMB-CONT									
USABLE AT 208V	20	NEMA-NOM-EFF	91.7			PF	80			
	NEMA MG-1 PT 5,IP55									

Parts List		
Part Number	Description	Quantity
SA311606	SA 37L973R872G1	1.000 EA
RA299031	RA 37L973R872G1	1.000 EA
37FN3002C01	EXFN, PLASTIC, 6.00 OD, 1.155 ID	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	BRASS 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/ 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

Parts List (continued)		
Part Number	Description	Quantity
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	6.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1359F	ALUM XP CAUTION LABEL	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1025G29	WILKOFASST, 789.229, DARK CHARCOAL GRAY	0.028 GA
HA3106A04	THRUBOLT- 1/2-13 X 12.625	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP0977XPSLEV	SS XP UL CSA-EEV CC CL-I GP-C&D	1.000 EA
37PA1039	PALLET PACK GRP, PRINT PK1026A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 54308 - Typical performance - not guaranteed values

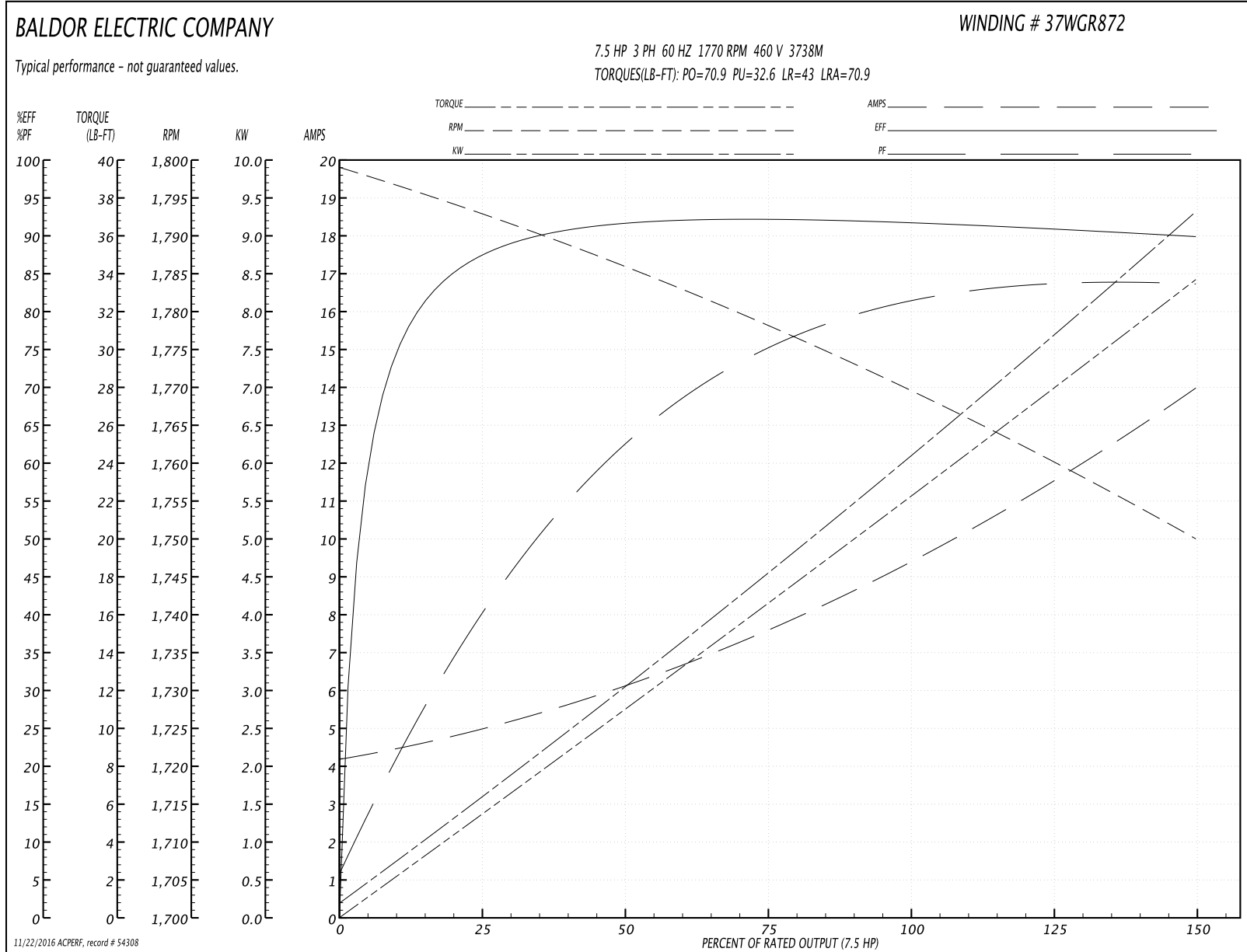
Winding: 37WGR872-R004	Type: 3738M	Enclosure: XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5//5			Full Load Torque	22.2 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	19/9.5//16.2/8.1			Breakdown Torque	70.9 LB-FT
R.P.M.	1770//1475			Pull-up Torque	32.6 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	43 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	70.9 A
Service Factor (S.F.)	1.15			No-load Current	4.31 A
NEMA Nom. Eff.	91.7	Power Factor	80	Line-line Res. @ 25°C	1.41 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
S.F. Amps				Temp. Rise @ S.F. Load	77°C
				Locked-rotor Power Factor	37.2
				Rotor inertia	0.934 LB-FT ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	87.1	91.6	92	92	91.1	89.8	91.5
Speed	1793	1786	1778	1770	1760	1750	1764
Line amperes	4.83	6.02	7.6	9.5	11.6	13.9	10.8

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



AC Induction Motor Performance Data

Record # 54309 - Typical performance - not guaranteed values

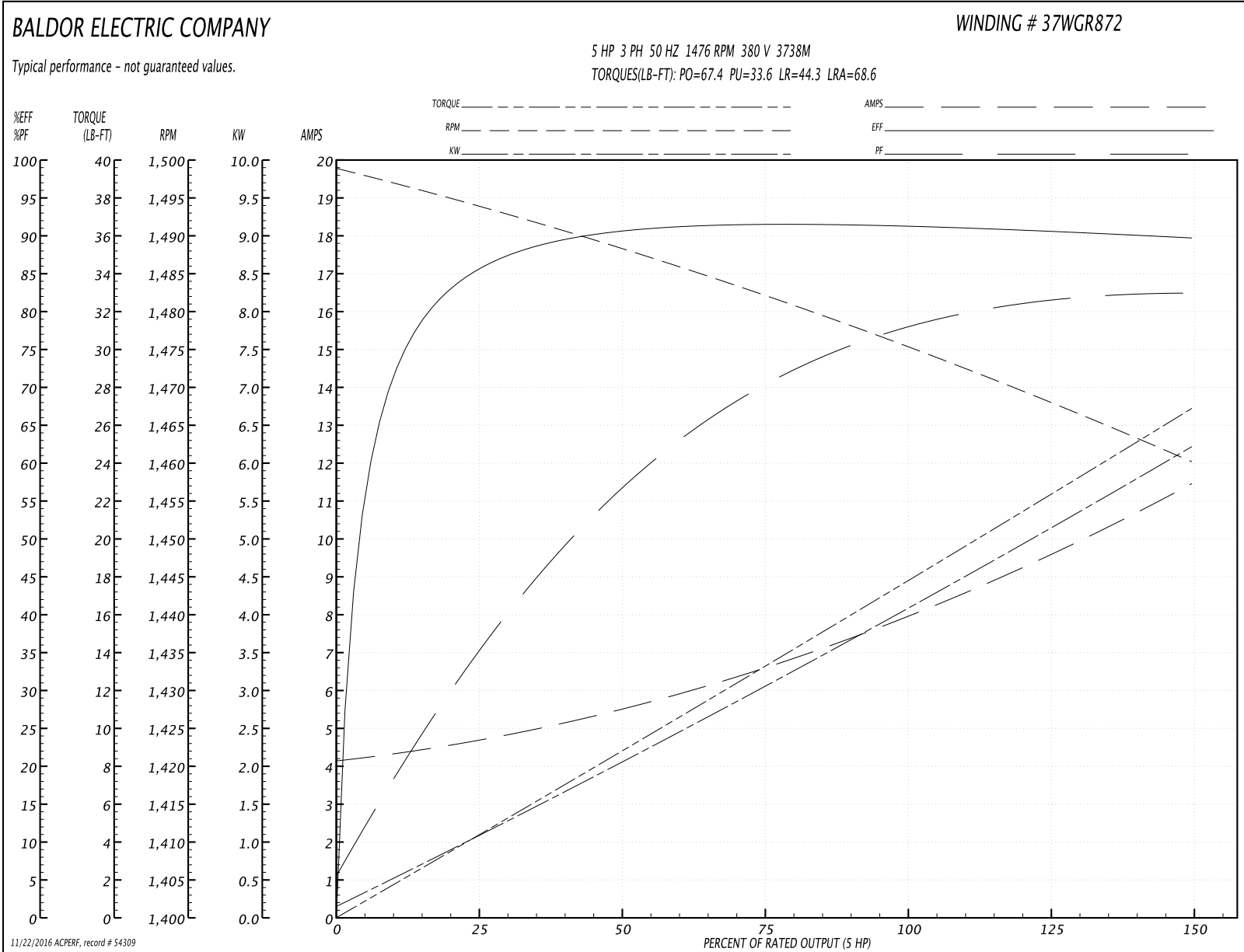
Winding: 37WGR872-R004	Type: 3738M	Enclosure: XPFC
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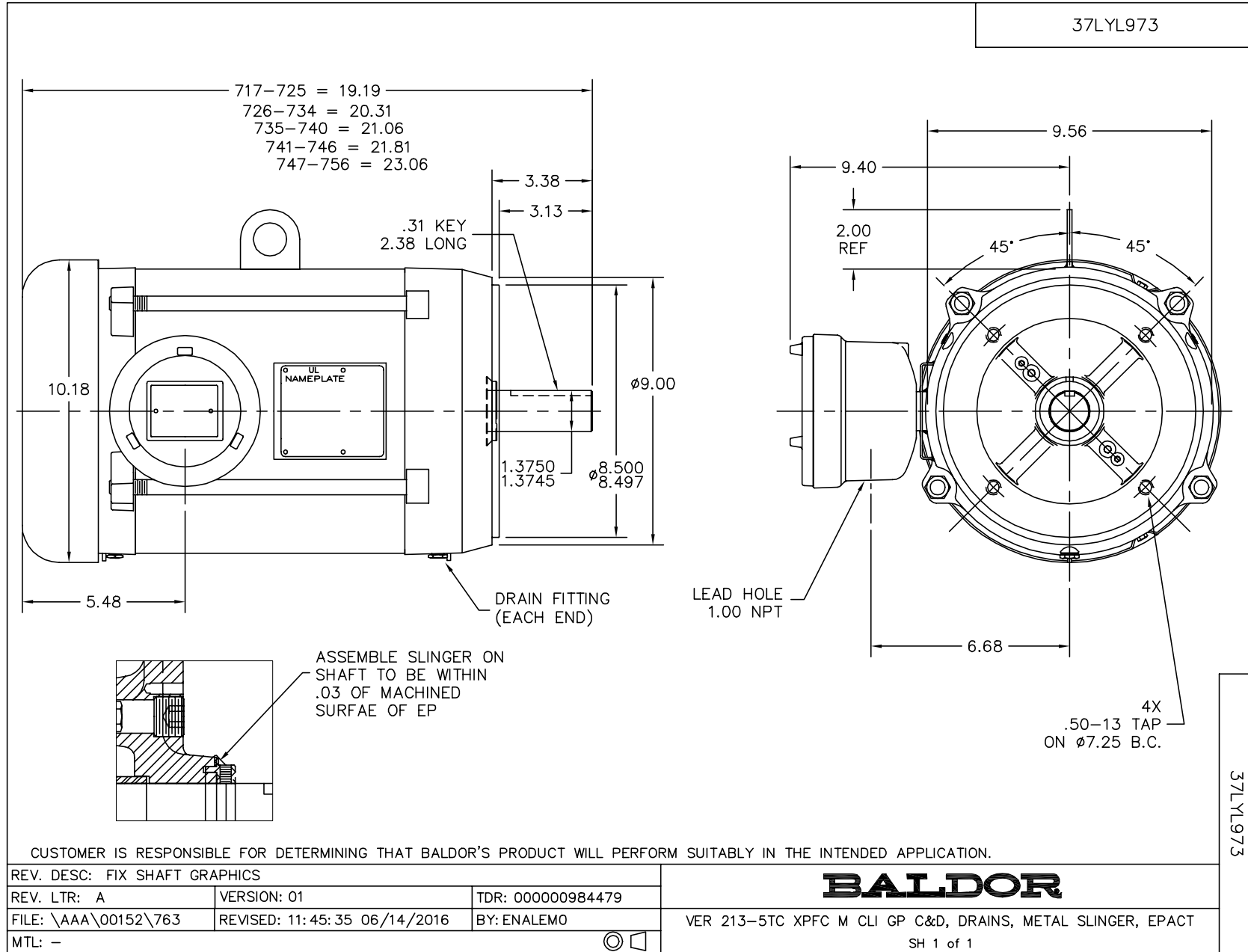
Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	7.5//5			Full Load Torque	17.7 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	19/9.5//16.2/8.1			Breakdown Torque	67.4 LB-FT
R.P.M.	1770//1475			Pull-up Torque	33.6 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	44.3 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	68.6 A
Service Factor (S.F.)	1.15			No-load Current	4.23 A
NEMA Nom. Eff.	91.7	Power Factor	80	Line-line Res. @ 25°C	1.41 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	49°C
S.F. Amps				Temp. Rise @ S.F. Load	59°C
				Locked-rotor Power Factor	41.5
				Rotor inertia	0.934 LB-FT ²

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	58	70	77	81	83	79
Efficiency	85.3	90.6	91.4	91.3	90.9	89.6	91.1
Speed	1494	1488	1482	1476	1468	1460	1471
Line amperes	4.58	5.44	6.59	8.03	9.64	11.4	9

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

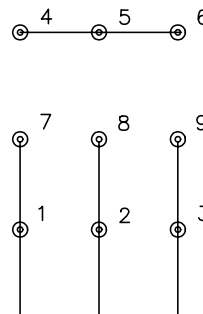




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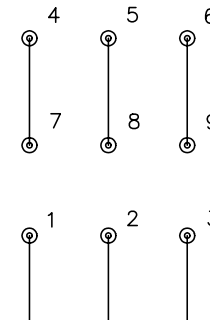


LOW VOLTAGE
(2Y)



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
90000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005