

BALDOR® • RELIANCE 

Product Information Packet

VWAM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3732M, TEFC

Part Detail							
Revision:	F	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS150	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37J447	Layout:	37LYJ447	Poles:	04	Created Date:	06-21-2010
Base:	N	Eff. Date:	03-08-2016	Leads:	9#14		

Specs			
Catalog Number:	VWAM3710T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	213TC	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	K
Output @ Frequency:	7.500 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3731M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	77
	CSA	Product Family:	Wash Down C.I. Autophoretic
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	10.100 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	20.200 A @ 230.0 V	Shaft Rotation:	Reversible
	22.000 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1258E				
CAT.NO.	VWAM3710T			
SPEC.	37J447S150H1			
HP	7.5			
VOLTS	208-230/460			
AMP	22-20.2/10.1			
RPM	1770			
FRAME	213TC	HZ	60	
SER.F.	1.15	CODE	K	
NEMA-NOM-EFF	89.5	DES	A	
RATING	40C AMB-CONT		PH	3
CC	010A	PF	77	
DE	6307	ODE	6206	
ENCL	TEFC	SN		
			CL	F
			USABLE AT 208V	

Parts List		
Part Number	Description	Quantity
SA199159	SA 37J447S150H1	1.000 EA
RA186498	RA 37J447S150H1	1.000 EA
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
37CB1000A17A	37 KOBX W/ .75 NPT @ 6: PRIMED	1.000 EA
37GS1016B01	SANTOPRENE KOBX GASKET W/LIP (BLACK)	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
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
37EP1100C05A	FRONT TEFC 206 BRG WD3 W/ CLIPPER PRIMED	1.000 EA
HW4606A03	JM CLIPPER/SEAL (LWE-1156-1875-AL44)	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP1300A95A	PULLEY 213-5TC ENCL 307 BRG WD3 PRIMED	1.000 EA
HW4606A04	JM CLIPPER/SEAL (LWE-1376-2125-AL45)	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
10XN2520S28	1/4-20X 1 3/4 HEX HD SS X	4.000 EA
XY3118S12	5/16-18 HEX NUT, STAINLESS STEEL	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
07FH4011	WASHDOWN IEC FH W/PRIMED	1.000 EA
10XN1032S08	10-32X1/2 HEX HEAD S STL	3.000 EA
36CB4518	36 LIPPED CB LID PRIMED	1.000 EA
37GS1003	1/16 NEOPRENE GASKET-BLACK, CONDUIT BOX	1.000 EA
59XN0832S07	8/32 X 7/16 HX WS HD SER X	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2502F21	#303 SS,SQ KEY 5/16 X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 EA
MG1025A01	WILKOFASST SG, 770.02, CLEAR SEMI-GLOSS	0.010 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1164	LABEL,WARNING AND DRAIN	1.000 EA
MJ5001A23	P.D. GEORGE B-276 AIR DRY VARNISH	0.001 GA
LB1000	LABEL, DIRTY DUTY	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HA3104S14	300UBOLT 12.125LG SS	4.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP1258E	SS CP UL CSA CC	1.000 EA
G0PA1000	PKG GRP, PRINT PK1026A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 22653 - Typical performance - not guaranteed values

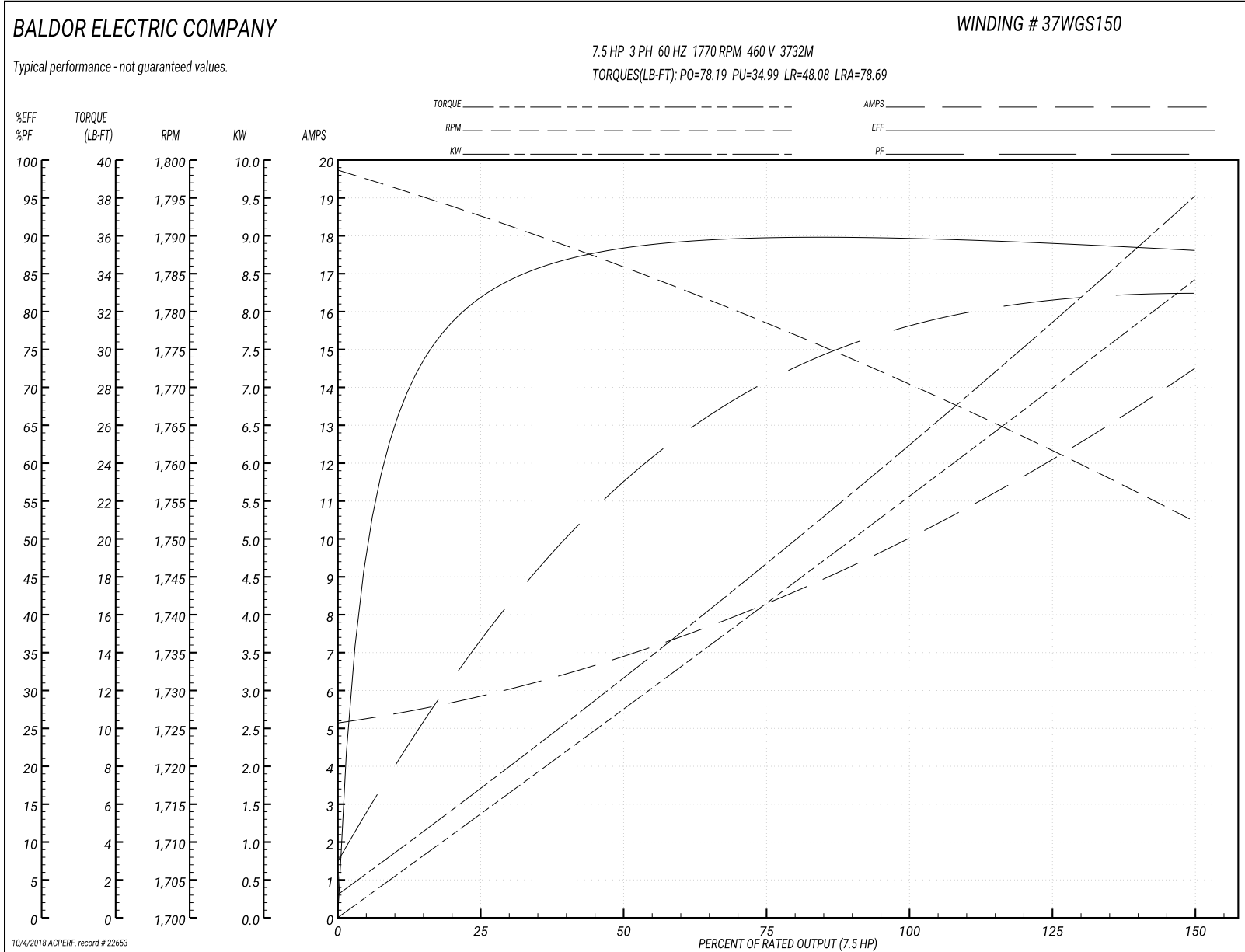
Winding: 37WGS150-R001	Type: 3732M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.14 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	22-20.2/10.1			Breakdown Torque	78.19 LB-FT
R.P.M.	1770			Pull-up Torque	34.99 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	48.08 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	78.69 A
Service Factor (S.F.)	1.15			No-load Current	5.26 A
NEMA Nom. Eff.	89.5	Power Factor	77	Line-line Res. @ 25°C	1.39 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	69°C
S.F. Amps				Temp. Rise @ S.F. Load	81°C
				Locked-rotor Power Factor	38.8
				Rotor inertia	0.787 LB-FT ²

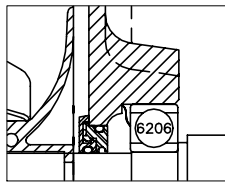
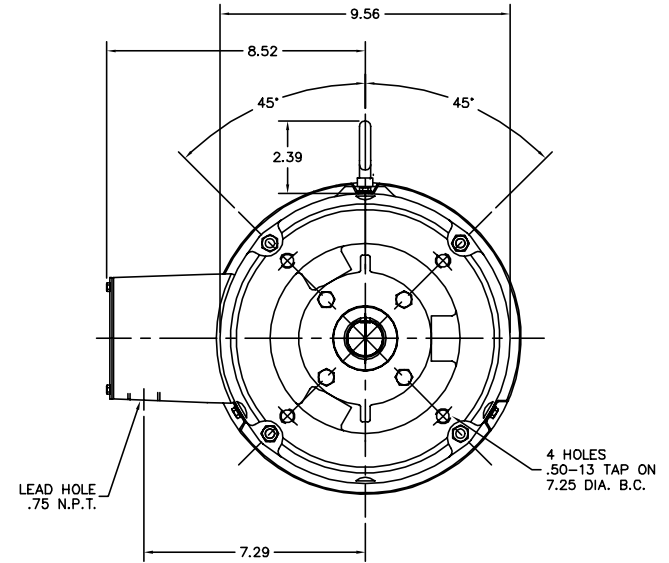
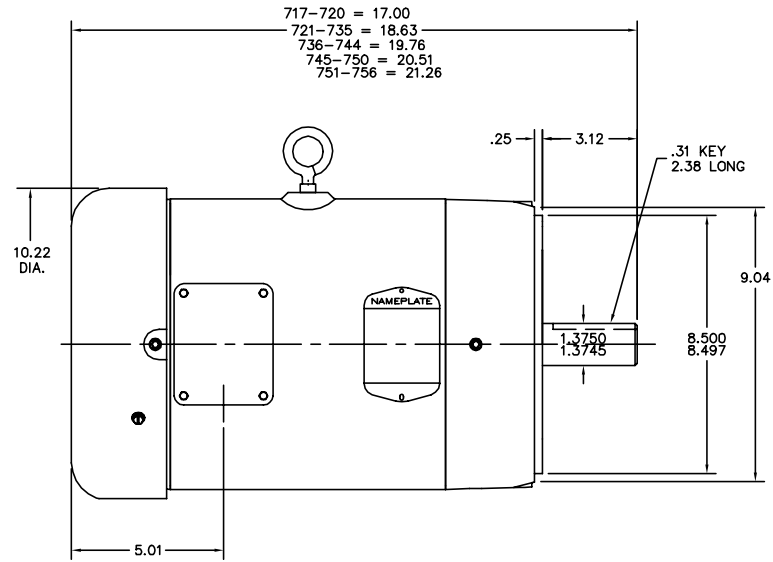
Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	71	77	81	83	79
Efficiency	81.5	88.2	89.6	90	88.8	88	89.4
Speed	1792	1786	1778	1771	1762	1752	1765
Line amperes	5.74	6.79	8.35	10.08	12.2	14.39	11.4

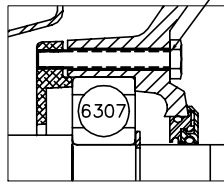
Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values



37LYJ447



FRONT END DETAIL



PULLEY END DETAIL

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: NEW			
REV. LTR: -	BY: EO	REVISED: 07:38:36 06/28/2004	TDR: 335461
FILE: AAA00118010			REF: 37LYJ447
MTL: -			

BALDOR ELECTRIC Co.

VERT 213-5TC TEFC 37M WD3

37LYJ447

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

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FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005