

BALDOR® • RELIANCE

Product Information Packet

VEDM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3738M, TEFC

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3738M	Elec. Spec:	37WGR872	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37N865	Layout:	37LYN865
Frame:	213TC	Mounting:	F1	Poles:	04	Created Date:	04-22-2016
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	10-20-2016
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3504E												
CAT NO	VEDM3710T											
SPEC.	37N865R872G1						ENCL	TEFC				
FRAME	213TC			HP	7.5							
VOLTS	230/460											
FLA	19/9.5				I.P.	56						
RPM	1770			RPM MAX	2700							
HZ	60			PH	3		CLASS	F				
SER.F.	1.15			DES	A		CC	010A				
NEMA-NOM-EFF	91.7											
RATING	40C AMB-CONT											
DE BRG	6307			ODE BRG	6206							
GREASE	POLYREX EM											
C HP FR	60			C HP TO	90							
CT HZ FROM	6			CT HZ TO	60							
SER.NO												
	50C AT 1.0 SF											
							VT HZ FROM	6		VT HZ TO	60	

Parts List		
Part Number	Description	Quantity
SA319744	SA 37N865R872G1	1.000 EA
RA307453	RA 37N865R872G1	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
37CB1000A17E	37 KOBX .75 NPT @ 6:00 (E-COAT)	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 #8 SCREW	1.000 EA
37EP1100E37LP2	FRONT TEFC 206 BRG W/CLIPPER	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	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
37EP1300B75E	PULLEY 213-5TC ENCL 307 BRG (E-COAT)	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	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
HA3104S17	THRUBOLT 13.250LG SS	4.000 EA
07FH4011LP2	WASHDOWN IEC FH	1.000 EA
10XN1032S08	10-32X1/2 HEX HEAD S STL	3.000 EA
36CB4518E	36 LIPPED CB LID E-COATING	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
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
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
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
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	9.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1500Y02	PRIMER,347.29+347.29C ACTIVATOR WILKOPON	0.010 GA
MG1025L01	WILKOFASFD, 786.04, BLACK	0.010 GA
36FN3000C02	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP3504E	SS DIRTY DUTY PLUS INV UL CSA-C US EEV	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 # 55756 - Typical performance - not guaranteed values

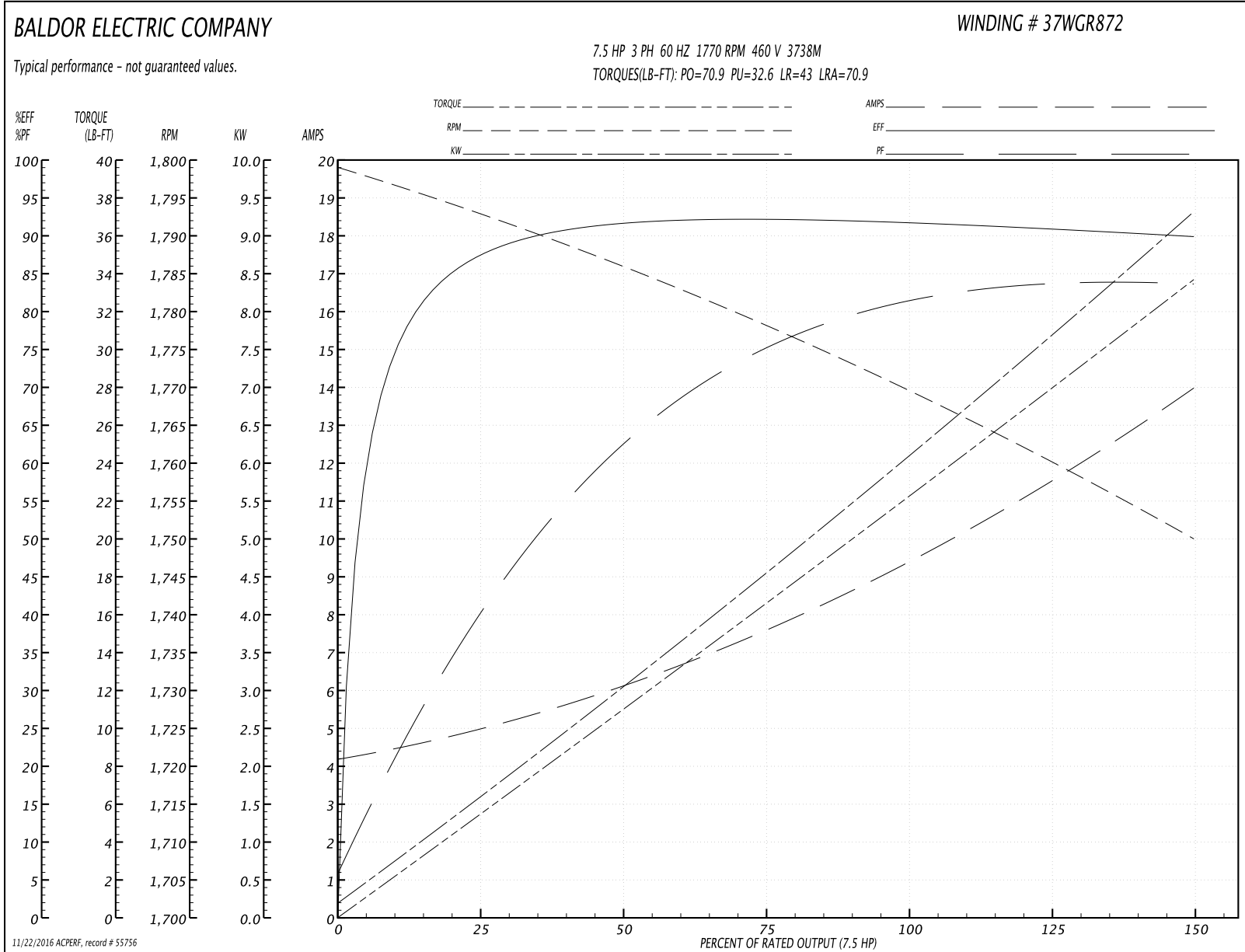
Winding: 37WGR872-R013	Type: 3738M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

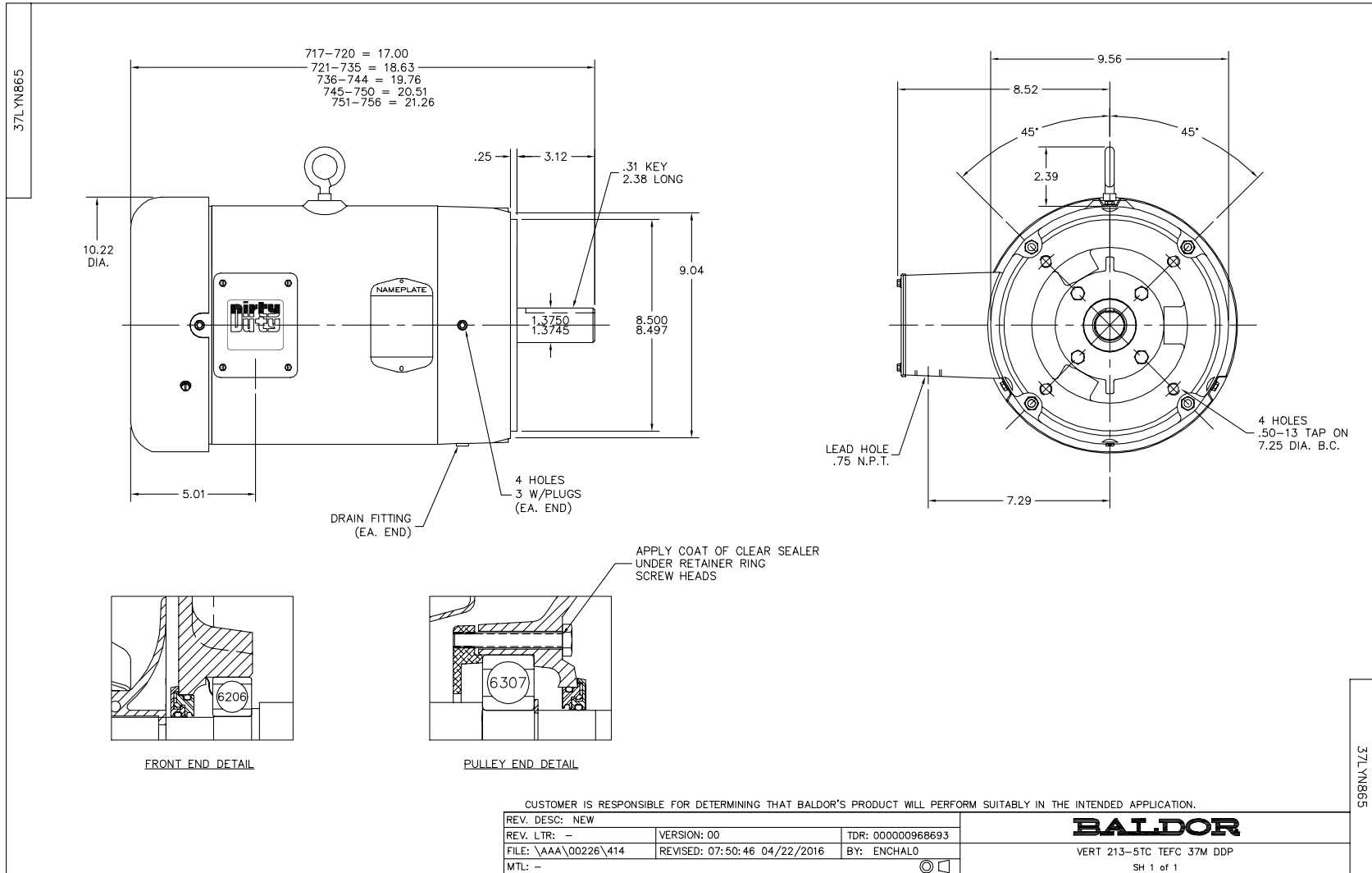
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.2 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	19/9.5			Breakdown Torque	70.9 LB-FT
R.P.M.	1770			Pull-up Torque	32.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	43 LB-FT
NEMA Design 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	78°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





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
90000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005