

BALDOR® • RELIANCE 

Product Information Packet

VEM3312T

10HP,3475RPM,3PH,60HZ,213TC,3728M,ODP,F1

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS633	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37K446	Layout:	37LYK446	Poles:	02	Created Date:	04-29-2015
Base:	N	Eff. Date:	09-23-2019	Leads:	9#14		

Specs			
Catalog Number:	VEM3312T	Heater Indicator:	No Heater
Enclosure:	ODP	Insulation Class:	F
Frame:	213TC	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	G
Output @ Frequency:	10.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3728M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	86
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	25.600 A @ 208.0 V	Shaft Rotation:	Reversible
	24.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
	12.000 A @ 460.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP3553LUA										
CAT.NO.	VEM3312T									
SPEC.	37K446S633G1									
HP	10									
VOLTS	208-230/460									
AMPS	25.6-24/12									
RPM	3475									
FRAME	213TC				HZ	60			PH	3
SF	1.15		CODE	G	DES	B		CLASS	F	
NEMA NOM. EFF	89.5		PF	86						
RATING	40C AMB-CONT									
CC	010A			USABLE AT 208V						
DE	6307				ODE	6206				
ENCL	ODP		SN							
VPWM INVERTER READY										
CT30-60(2:1) VT3-60(20:1)										
USABLE AT	50HZ 7.5HP 190/380V 26.8/14.4A								SF1.0	

Parts List		
Part Number	Description	Quantity
SA300130	SA 37K446S633G1	1.000 EA
RA287176	RA 37K446S633G1	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	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
37EP3203A01	A00 W/FH MTG	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP3400A02	FACE MT EP-OPEN-307 BRG-213-215TC W/BAFF	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
37AD2000A01	BAFFLE PLATE, STAMPED PLATED	1.000 EA
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 EA
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
37FH4000A05SP	DRIP COVER, W/ PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	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
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 GA
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3553LUA	ALUM SUPER-E VPWM INVERTER READY UL	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) 3/19	1.000 EA

AC Induction Motor Performance Data

Record # 40533 - Typical performance - not guaranteed values

Winding: 37WGS633-R002	Type: 3728M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10			Full Load Torque	15 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	24/12			Breakdown Torque	51.1 LB-FT
R.P.M.	3475			Pull-up Torque	25.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	30 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	79 A
Service Factor (S.F.)	1.15			No-load Current	4.54 A
NEMA Nom. Eff.	89.5	Power Factor	86	Line-line Res. @ 25°C	0.98748 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	29°C
S.F. Amps				Temp. Rise @ S.F. Load	35°C
				Locked-rotor Power Factor	35
				Rotor inertia	0.255 LB-FT ²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	74	82	86	88	88	87
Efficiency	84.2	89.7	90.6	90.2	89.3	87.9	89.7
Speed	3578.4	3552.7	3525.5	3493.1	3458.3	3422.6	3472
Line amperes	5.31	7.03	9.39	12	14.8	18	13.7

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values

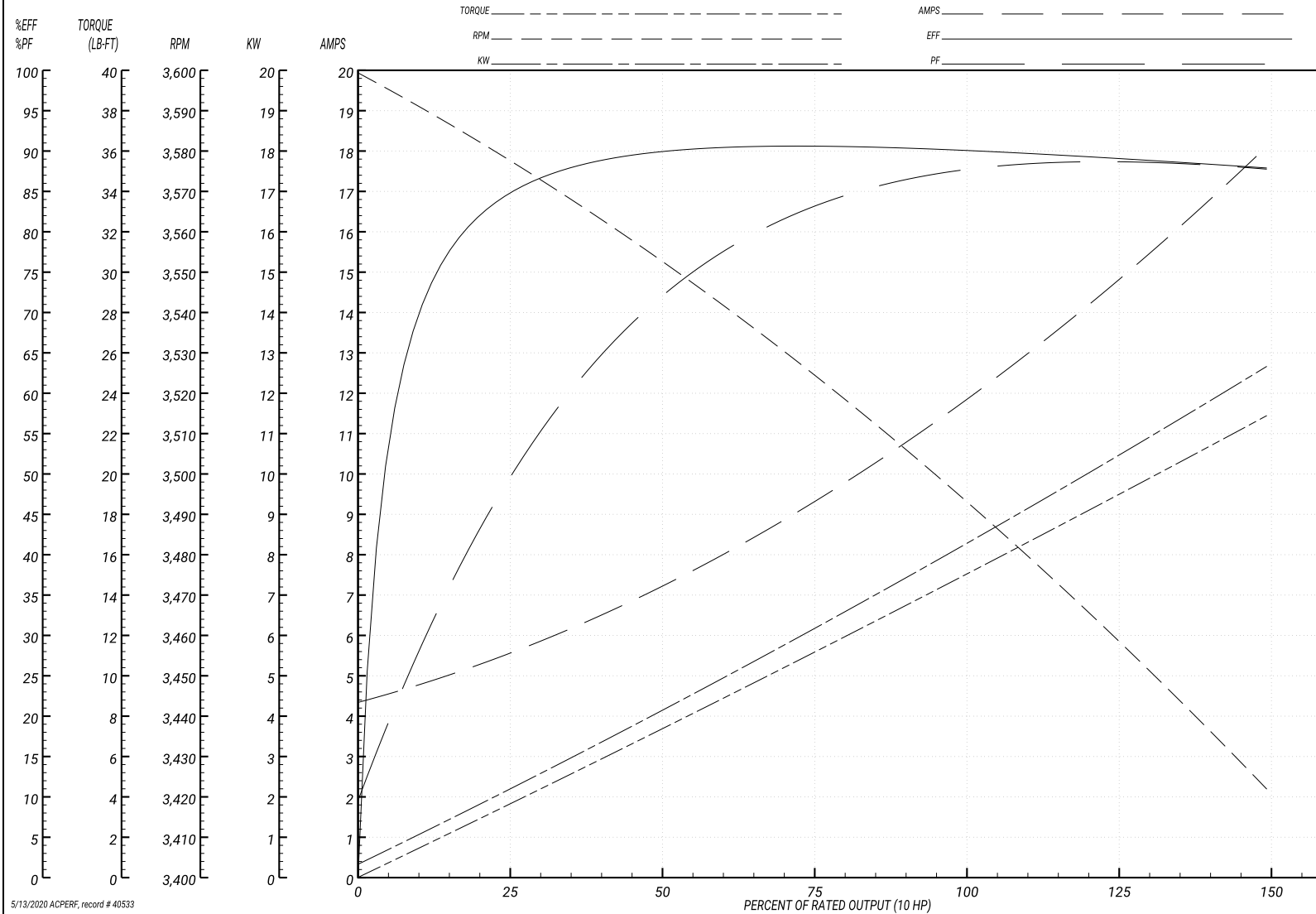
ABB Motors and Mechanical Inc.

WINDING # 37WGS633

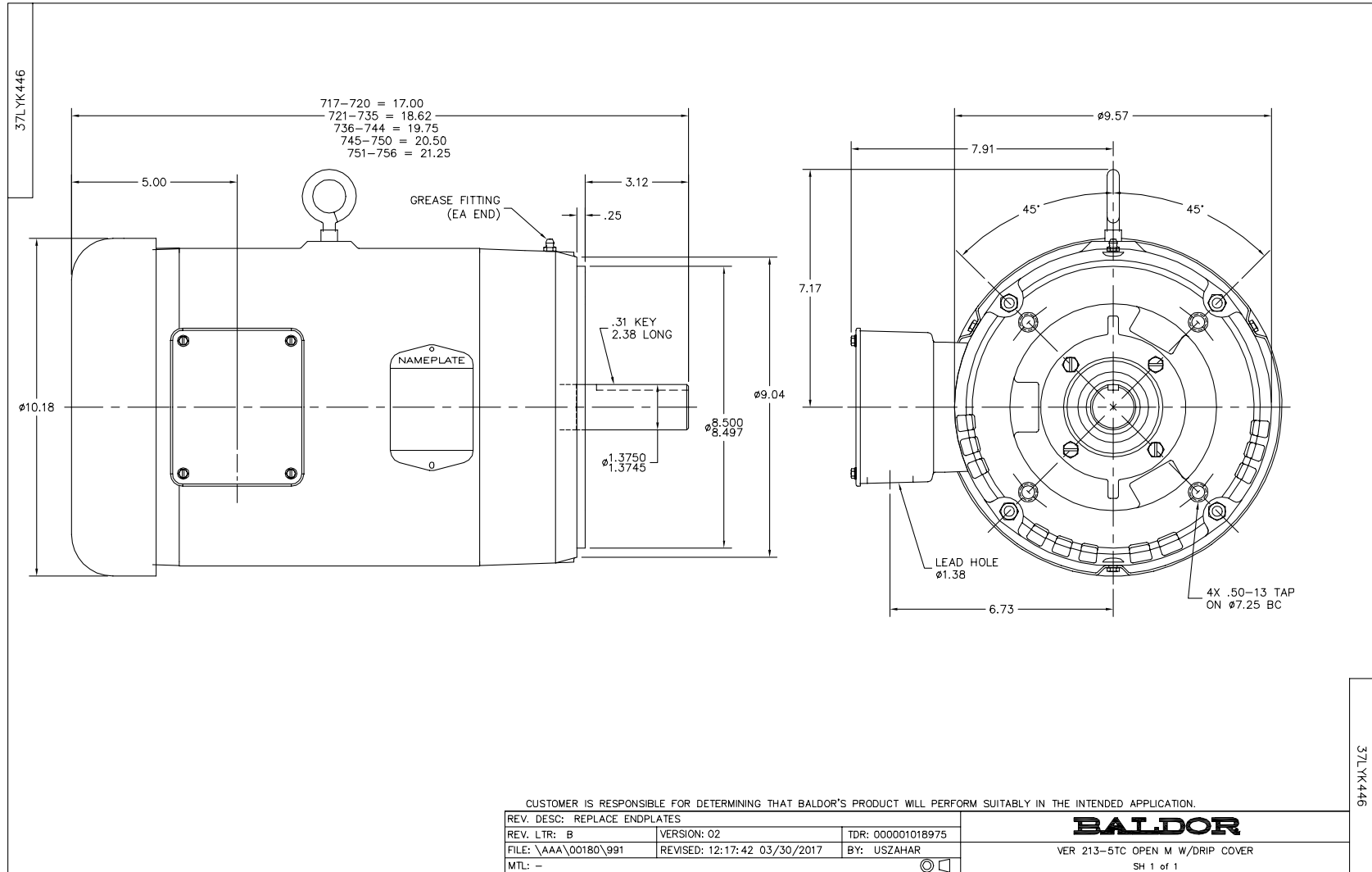
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3475 RPM 460 V 3728M

TORQUES(LB-FT): PO=51.1 PU=25.6 LR=30 LRA=79



5/13/2020 ACPERF, record # 40533



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