BALDOR • RELIANCE

Product Information Packet

VEM7044T-5

5HP,1750RPM,3PH,60HZ,184TC,3642M,XPFC,F1

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Part Detail

Revision:	G	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	36WGS551	**CD Diagram:**	CD0006	**Mfg Plant:**	
Mech. Spec:	36N024	**Layout:**	36LYN024	**Poles:**	04	**Created Date:**	08-12-2010
Base:	N	**Eff. Date:**	06-21-2017	**Leads:**	3#16		

Specs

Catalog Number:	VEM7044T-5	**Inverter Code:**	Not Inverter
Enclosure:	XPFC	**KVA Code:**	J
Frame:	184TC	**Lifting Lugs:**	No Lifting Lugs
Frame Material:	Steel	**Locked Bearing Indicator:**	Locked Bearing
Output @ Frequency:	5.000 HP @ 60 HZ	**Motor Lead Quantity/Wire Size:**	3 @ 16 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Motor Lead Exit:**	Ko Box
Voltage @ Frequency:	575.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	CLI GP D; CLII GP F,G	**Motor Type:**	3642M
XP Division:	Division I	**Mounting Arrangement:**	F1
Agency Approvals:	UL	**Power Factor:**	78
	UR	**Product Family:**	General Purpose
	CSA EEV	**Pulley End Bearing Type:**	Ball
	CSA	**Pulley Face Code:**	C-Face
Auxillary Box:	No Auxillary Box	**Pulley Shaft Indicator:**	Standard
Auxillary Box Lead Termination:	None	**Rodent Screen:**	None
Base Indicator:	No Mounting	**Shaft Extension Location:**	Pulley End
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Shaft Ground Indicator:**	No Shaft Grounding
Blower:	None	**Shaft Rotation:**	Reversible

Current @ Voltage:	5.300 A @ 575.0 V	**Shaft Slinger Indicator:**	No Slinger
Design Code:	B	**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 (OLD)
Feedback Device:	NO FEEDBACK	**Thermal Device - Winding:**	Normally Closed Thermostat
Front Face Code:	Standard	**Vibration Sensor Indicator:**	No Vibration Sensor
Front Shaft Indicator:	None	**Winding Thermal 1:**	None
Heater Indicator:	No Heater	**Winding Thermal 2:**	None
Insulation Class:	B	**XP Temp Code:**	T3C

Nameplate NP1426XPSLEV

NO.		CC	010A				
SER.							
SPEC.	36N024S551G1						
CAT.NO.	VEM7044T-5						
HP	5	T. CODE	T3C				
VOLTS	575						
AMPS	5.3						
RPM	1750						
HZ	60	PH	3	CL	B		
SER.F.	1.00	DES	B	CODE	J		
RATING	40C AMB-CONT						
FRAME	184TC	NEMA-NOM-EFF	89.5				
USABLE AT 208V		PF	78				
BLANK							

Parts List

Part Number	Description	Quantity
SA201392	SA 36N024S551G1	1.000 EA
RA188690	RA 36N024S551G1	1.000 EA
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 EA
35CB3001A02SP	EXPL PROOF CONDUIT BOX, 3/4"PIPE TAP LEA	1.000 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
36EP3700A01	FR ENDPLATE, MACH	1.000 EA
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36EP1703A01	PU ENDPLATE, MACH	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HW4001A01	1/4 HX SOC PIPE PLG (F/S) ALLOY STEEL W/	2.000 EA
60XN1032A07	10-32 X .4375 TRUSS HEAD, TORX SERRATED	2.000 EA
36FH4009A02	FAN COVER FOR VM7042T,PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 EA
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 EA
HW2501E16	KEY, 1/4 SQ X 1.750	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
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.022 GA

Parts List (continued)

Part Number	Description	Quantity
HA3105A09	THRUBOLT 3/8-16 X 12.000	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP1426XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	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 # 35734 - Typical performance - not guaranteed values

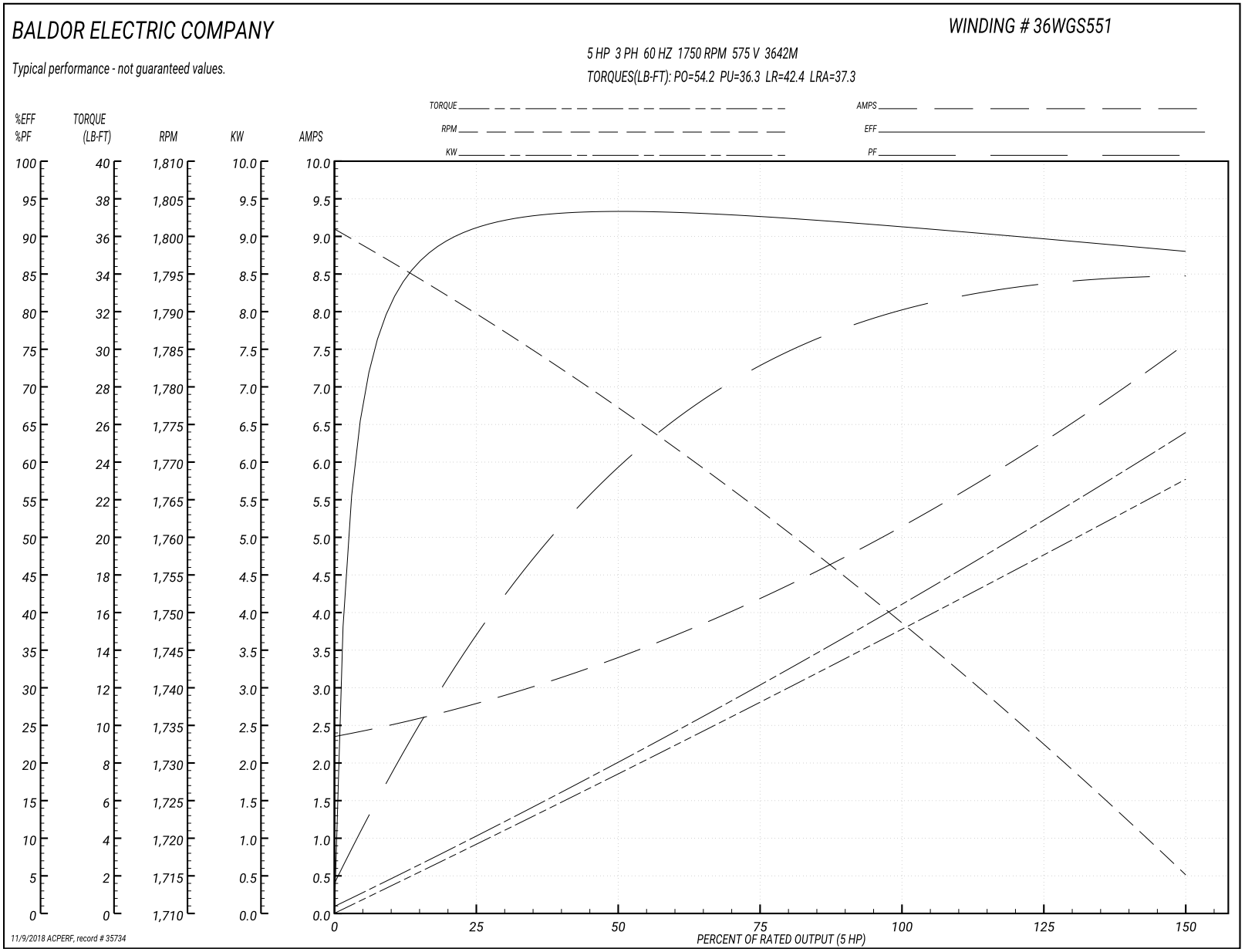
Winding: 36WGS551-R002	**Type:** 3642M	**Enclosure:** XPFC

Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	5			Full Load Torque	15.2 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	5.3			Breakdown Torque	54.2 LB-FT
R.P.M.	1750			Pull-up Torque	36.3 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	42.4 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	37.3 A
Service Factor (S.F.)	1			No-load Current	2.41 A
NEMA Nom. Eff.	89.5	Power Factor	78	Line-line Res. @ 25ºC	3.57 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	69°C
S.F. Amps				Temp. Rise @ S.F. Load	84°C
				Locked-rotor Power Factor	40
				Rotor inertia	0.391 LB-FT2

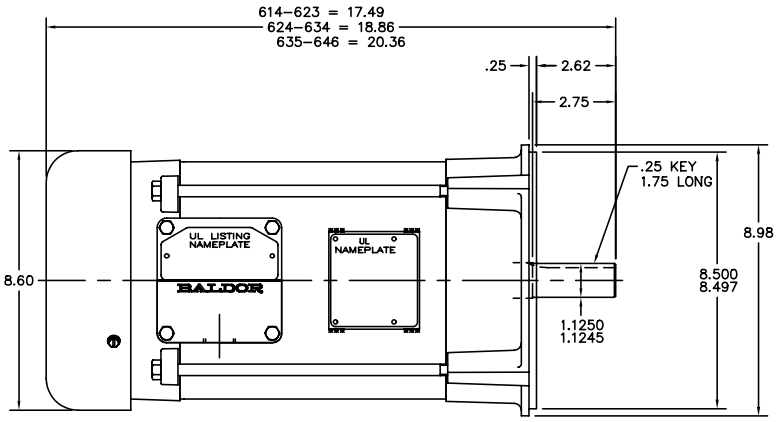
Load Characteristics 575 V, 60 Hz, 5 HP

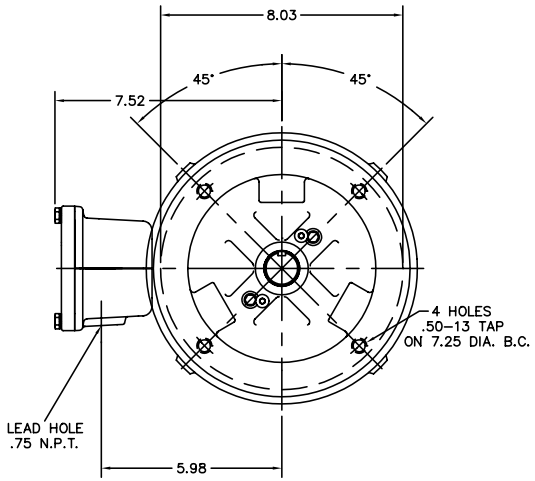
% of Rated Load	25	50	75	100	125	150
Power Factor	38	60	73	80	83	85
Efficiency	91.3	93.3	92.6	91.5	89.6	88.1
Speed	1790	1777	1764	1748	1733	1715
Line amperes	2.71	3.36	4.19	5.21	6.3	7.53

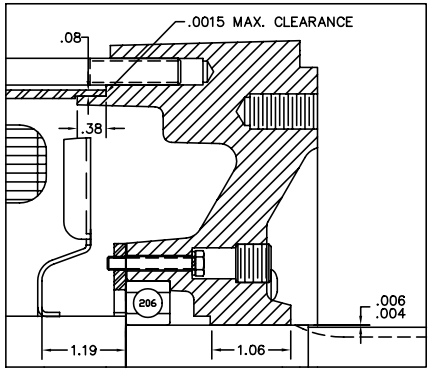
Performance Graph at 575V, 60Hz, 5.0HP Typical performance - Not guaranteed values



36LYN024







PULLEY END DETAIL

UL CLASS I – GROUP D – CLASS II – GROUPS F & G

CUST. NAME	CUST. P.O.	CERTIFIED BY	MODEL	INSUL	AMB
H.P.	MTG	TYPE	R.P.M.	VOLTS	ENCL	PHASE	FREQ	FRAME
REV. DESC: CHG'D FH TO 36FH4009A02								
REV. LTR: H	BY: JED	REVISED: 06/03/99 2:23	TDR: 0183318					
FILE: AAA00004734			MDL: –					
MTL: –								

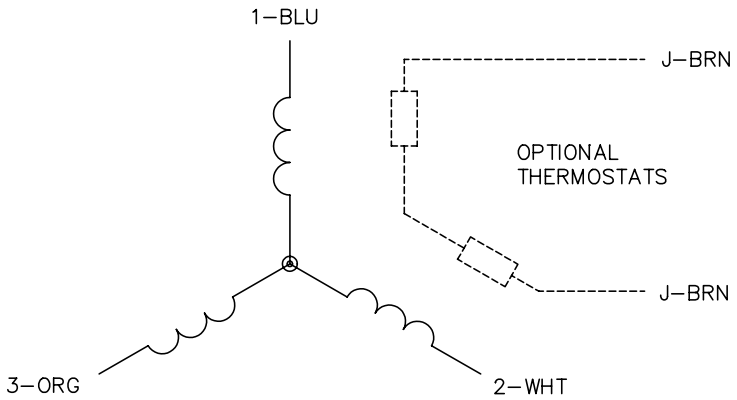
BALDOR ELECTRIC Co.

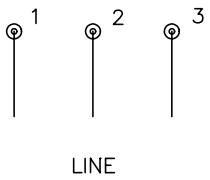
VERT 182–4TC XPFC 36M CL I–GP D, CL II GP F&G, W/T'ST

36LYN024

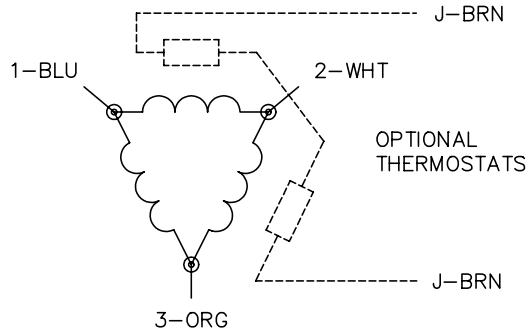
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435
9000CD		FILE: AAA00005141	MDL: –
		MTL: –	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED