BALDOR • RELIANCE

Product Information Packet

EJMM3616T

7.5HP,3450RPM,3PH,60HZ,184JM,3646M,TEFC

Part Detail

Revision:	F	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	36WGS428	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	36H017	**Layout:**	36LYH017	**Poles:**	02	**Created Date:**	11-12-2011
Base:	RG	**Eff. Date:**	01-21-2019	**Leads:**	9#16		

Specs

Catalog Number:	EJMM3616T	**Heater Indicator:**	No Heater
Enclosure:	TEFC	**Insulation Class:**	F
Frame:	184JM	**Inverter Code:**	Inverter Ready
Frame Material:	Steel	**KVA Code:**	L
Output @ Frequency:	7.500 HP @ 60 HZ	**Lifting Lugs:**	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	**Locked Bearing Indicator:**	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	**Motor Lead Quantity/Wire Size:**	9 @ 16 AWG
	230.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
XP Class and Group:	None	**Motor Lead Termination:**	Flying Leads
XP Division:	Not Applicable	**Motor Type:**	3646M
Agency Approvals:	UR	**Mounting Arrangement:**	F1
	CSA EEV	**Power Factor:**	93
	CSA	**Product Family:**	General Purpose
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Ball
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	C-Face
Base Indicator:	Rigid	**Pulley Shaft Indicator:**	Tapped & Key
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Rodent Screen:**	None
Blower:	None	**Shaft Extension Location:**	Pulley End

Current @ Voltage:	16.800 A @ 230.0 V
	18.500 A @ 208.0 V
	8.400 A @ 460.0 V
Design Code:	A
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None

Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	Shaft Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
Starting Method:	Direct on line
Thermal Device - Bearing:	None
Thermal Device - Winding:	None
Vibration Sensor Indicator:	No Vibration Sensor
Winding Thermal 1:	None
Winding Thermal 2:	None

Nameplate NP3441LUA

CAT.NO.	EJMM3616T								
SPEC	36H017S428G3								
HP	7.5								
VOLTS	230/460								
AMPS	16.8/8.4								
RPM	3450								
FRAME	184JM	**HZ**	60	**PH**	3				
SF	1.15	**CODE**	L	**DES**	A	**CLASS**	F		
NEMA NOM. EFF	89.5	**PF**	93						
RATING	40C AMB-CONT								
CC	010A	**USABLE AT 208V**	18.5						
ENCL	TEFC	**SER**							
DE	6207	**ODE**	6205						
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50Hz 7.5HP 190/380V 21/10.5A								SF1.0

Parts List

Part Number	Description	Quantity
SA234437	SA 36H017S428G3	1.000 EA
RA221410	RA 36H017S428G3	1.000 EA
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	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
36EP3104A04	FR ENDPLATE, FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36PE3405T03	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
36FH4009A103	IEC FH GREASER W/PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 EA
37GS1001	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HA1005A07	SLINGER, OD 2.25, ID 1.344, 307 BRG	1.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA

Parts List (continued)

Part Number	Description	Quantity
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 EA
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

AC Induction Motor Performance Data
Record # 52145
Typical performance - not guaranteed values

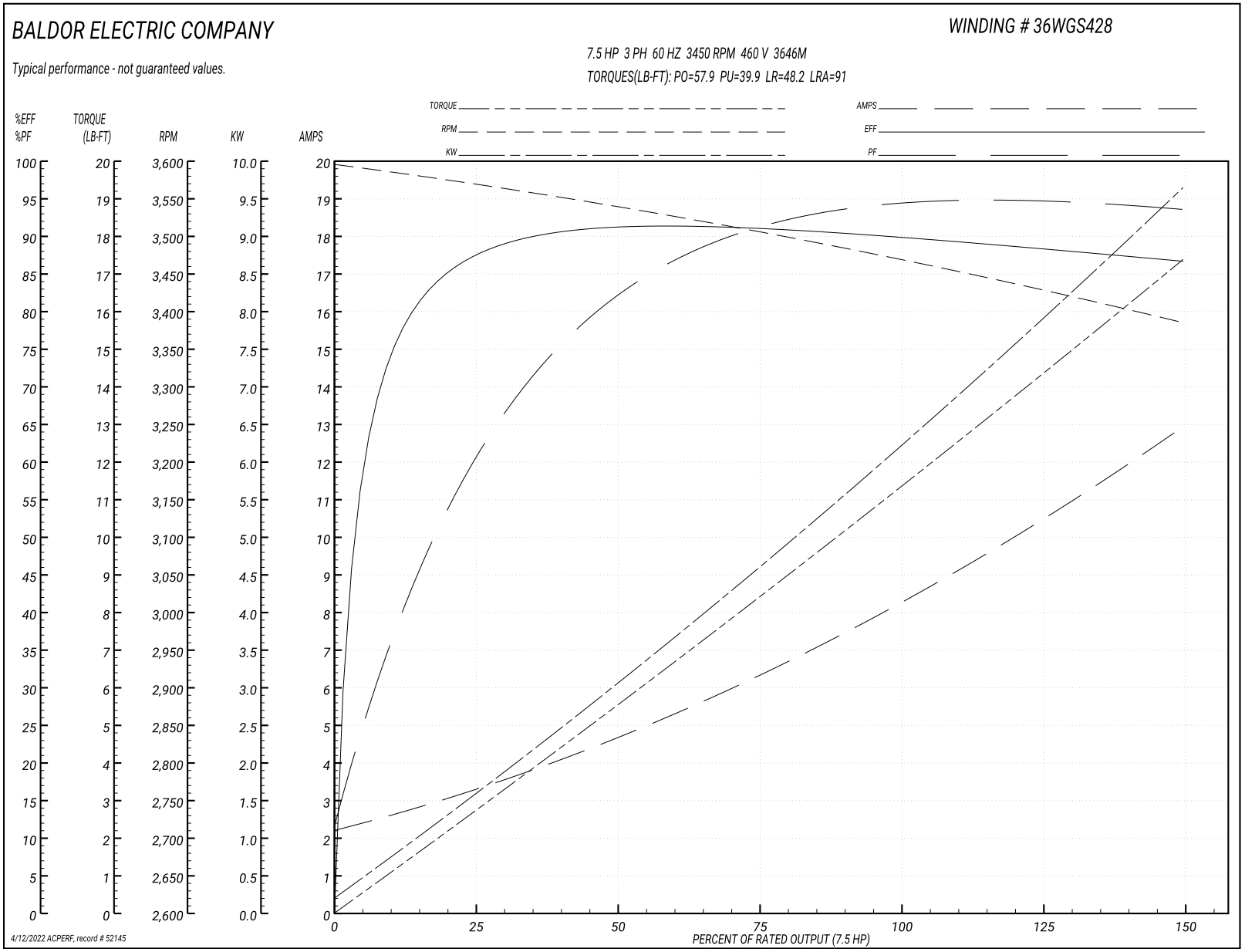
Winding: 36WGS428-R020	**Type:** 3646M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		7.5	**Full Load Torque**	11.4 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		16.8/8.4	**Breakdown Torque**	57.9 LB-FT
R.P.M.		3450	**Pull-up Torque**	39.9 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	48.2 LB-FT
NEMA Design Code	A **KVA Code**	L	**Starting Current**	91 A
Service Factor (S.F.)		1.15	**No-load Current**	2.33 A
NEMA Nom. Eff.	89.5 **Power Factor**	93	**Line-line Res. @ 25ºC**	1.43 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
S.F. Amps			**Temp. Rise @ S.F. Load**	92°C
			Locked-rotor Power Factor	44.4
			Rotor inertia	0.205 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	64	85	90	93	94	94	94
Efficiency	86.9	90.6	91	90.1	88.8	86.5	89.3
Speed	3571	3539	3505	3468	3429	3385	3445
Line amperes	3.14	4.59	6.43	8.43	10.5	12.9	9.67

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



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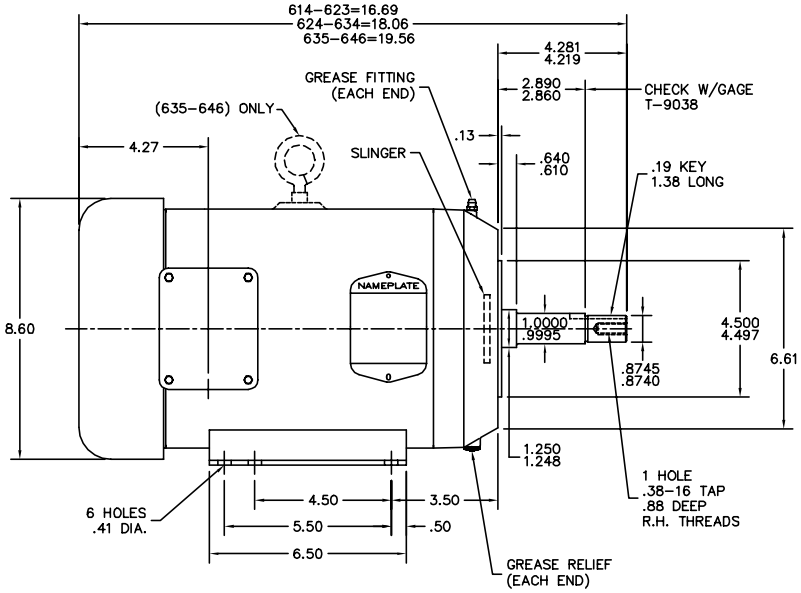

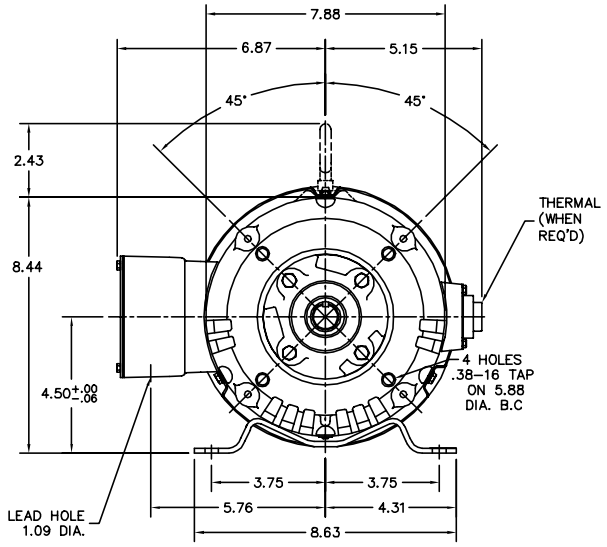

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

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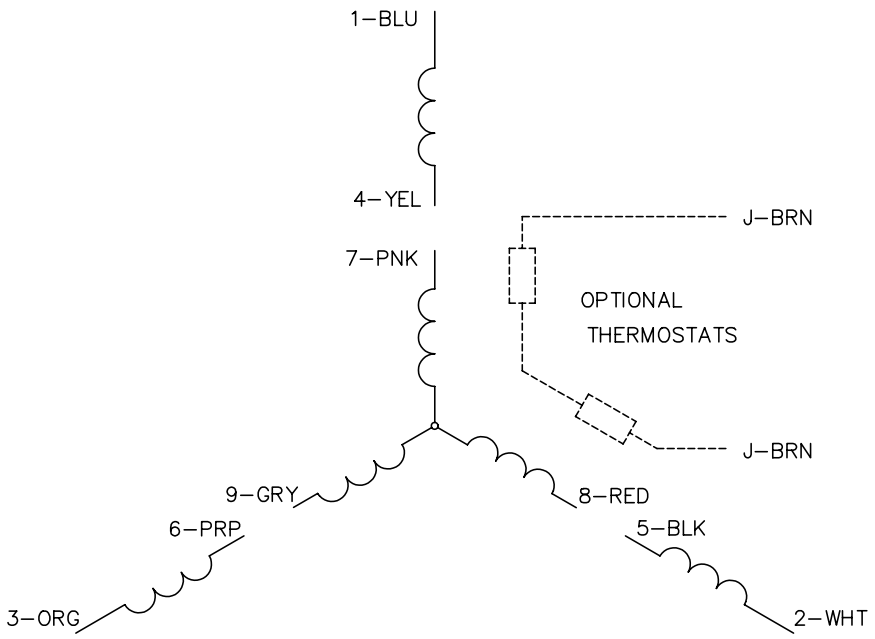
REV. LTR: M	BY: RMP	REVISED: 07:25:39 09/09/2004	TDR: 342770
FILE: AAA00004174			REF: 36LYH017
MTL: –			

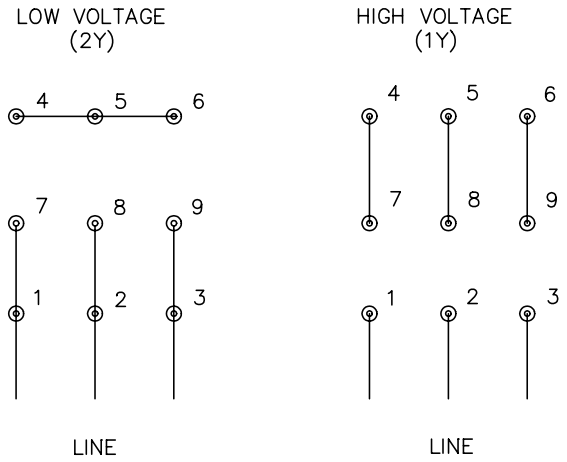
BALDOR ELECTRIC Co.

STD HORZ 182-4JM TEFC 36M

36LYH017

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS