BALDOR • RELIANCE

Product Information Packet

EJPM3218T

5HP/1760RPM/3PH/OPSB/NEMA 184JP

Part Detail

Revision:	G	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	36WGS270	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	36J514	**Layout:**	36LYJ514	**Poles:**	04	**Created Date:**	05-27-2015
Base:	RG	**Eff. Date:**	11-24-2020	**Leads:**	9#16		

Specs

Catalog Number:	EJPM3218T	**Heater Indicator:**	No Heater
Enclosure:	OPSB	**Insulation Class:**	F
Frame:	184JP	**Inverter Code:**	Inverter Ready
Frame Material:	Steel	**KVA Code:**	J
Output @ Frequency:	5.000 HP @ 60 HZ	**Lifting Lugs:**	No Lifting Lugs
Synchronous Speed @ Frequency:	1800 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:**	3640M
Agency Approvals:	UR	**Mounting Arrangement:**	F1
	CSA EEV	**Power Factor:**	80
	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:**	Included
Blower:	None	**Shaft Extension Location:**	Pulley End

Current @ Voltage:	13.200 A @ 230.0 V
	14.000 A @ 208.0 V
	6.600 A @ 460.0 V
Design Code:	B
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:	No 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 NP3553LUA

CAT.NO.	EJPM3218T							
SPEC.	36J514S270G3							
HP	5							
VOLTS	230/460							
AMPS	13.2/6.6							
RPM	1750							
FRAME	184JP	**HZ**	60			**PH**	3	
SF	1.15	**CODE**	J	**DES**	B	**CLASS**	F	
NEMA NOM. EFF	89.5	**PF**	80					
RATING	40C AMB-CONT							
CC	010A			**USABLE AT 208V**	14			
DE	6207	**ODE**	6205					
ENCL	OPSB	**SN**						
VPWM INVERTER READY								
CT30-60(2:1) VT3-60(20:1)								
USABLE AT	50Hz 5HP 190/380V 15.6/7.8A							SF1.0

Parts List

Part Number	Description	Quantity
SA302031	SA 36J514S270G3	1.000 EA
RA289115	RA 36J514S270G3	1.000 EA
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD 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
36EP3204D00	MASTER ODE,205 BRG,GRSR,RLF	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA1103A08	RODENT SCREEN, 36 FRAME, OPEN, FRONT END	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 EA
HW1000A10	#10 FLAT WASHER (SAE)	4.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36EP3405A04	PUEP 182-4C OPEN 207 BRG W/ TSLV, GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA1102A07	RODENT SCREEN 36 OPEN FACE	2.000 EA
11XF1032A04	10-32X1/4HXWSHR HDSLTDTYF	4.000 EA
HW1000A10	#10 FLAT WASHER (SAE)	4.000 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
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HA2009A01	36-4613 SL ANOD. ALUM (STER	1.000 EA

Parts List (continued)

Part Number	Description	Quantity
80XN1032A06	10-32 X 3/8 SET SC HEX SOCK	1.000 EA
HW2501D15	KEY, 3/16 X 1.625	1.000 EA
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
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	2.000 EA
HA3101A40	THRUBOLT 1/4-20 X 12.687	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
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data
Record # 53360
Typical performance - not guaranteed values

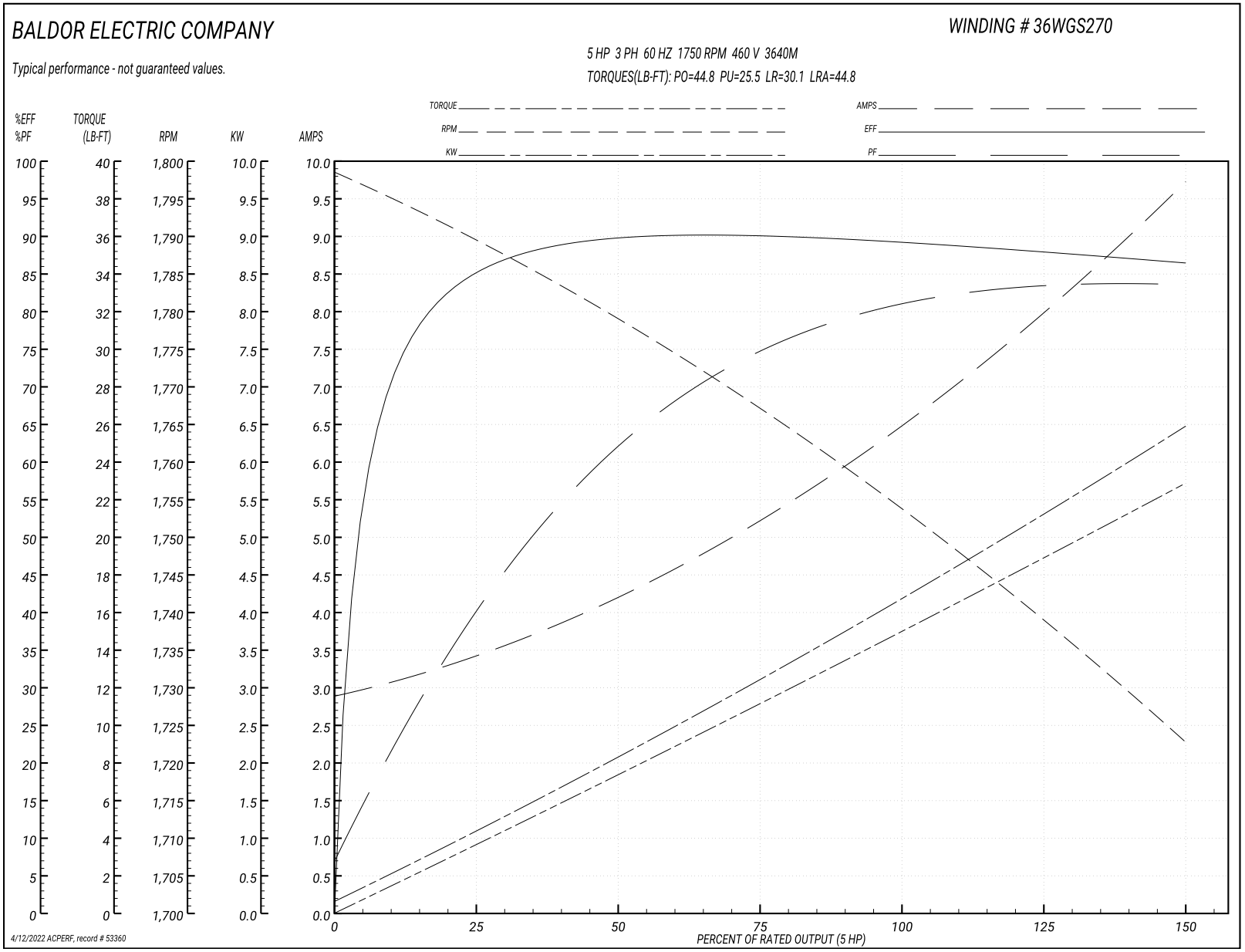
Winding: 36WGS270-R004	**Type:** 3640M	**Enclosure:** OPSB

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		5	**Full Load Torque**	15.05 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		13.2/6.6	**Breakdown Torque**	44.8 LB-FT
R.P.M.		1750	**Pull-up Torque**	25.5 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	30.1 LB-FT
NEMA Design Code	B **KVA Code**	J	**Starting Current**	44.8 A
Service Factor (S.F.)		1.15	**No-load Current**	2.97 A
NEMA Nom. Eff.	89.5 **Power Factor**	80	**Line-line Res. @ 25ºC**	2.632 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps			**Temp. Rise @ S.F. Load**	56°C
			Locked-rotor Power Factor	41
			Rotor inertia	0.372 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	80	83	84	82
Efficiency	85.4	89.7	90.2	89.5	88.2	86.4	88.7
Speed	1789.2	1778.5	1766.9	1753.8	1739.5	1722.1	1745
Line amperes	3.33	4.14	5.26	6.59	8.05	9.68	7.47

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data
Record # 86108
Typical performance - not guaranteed values

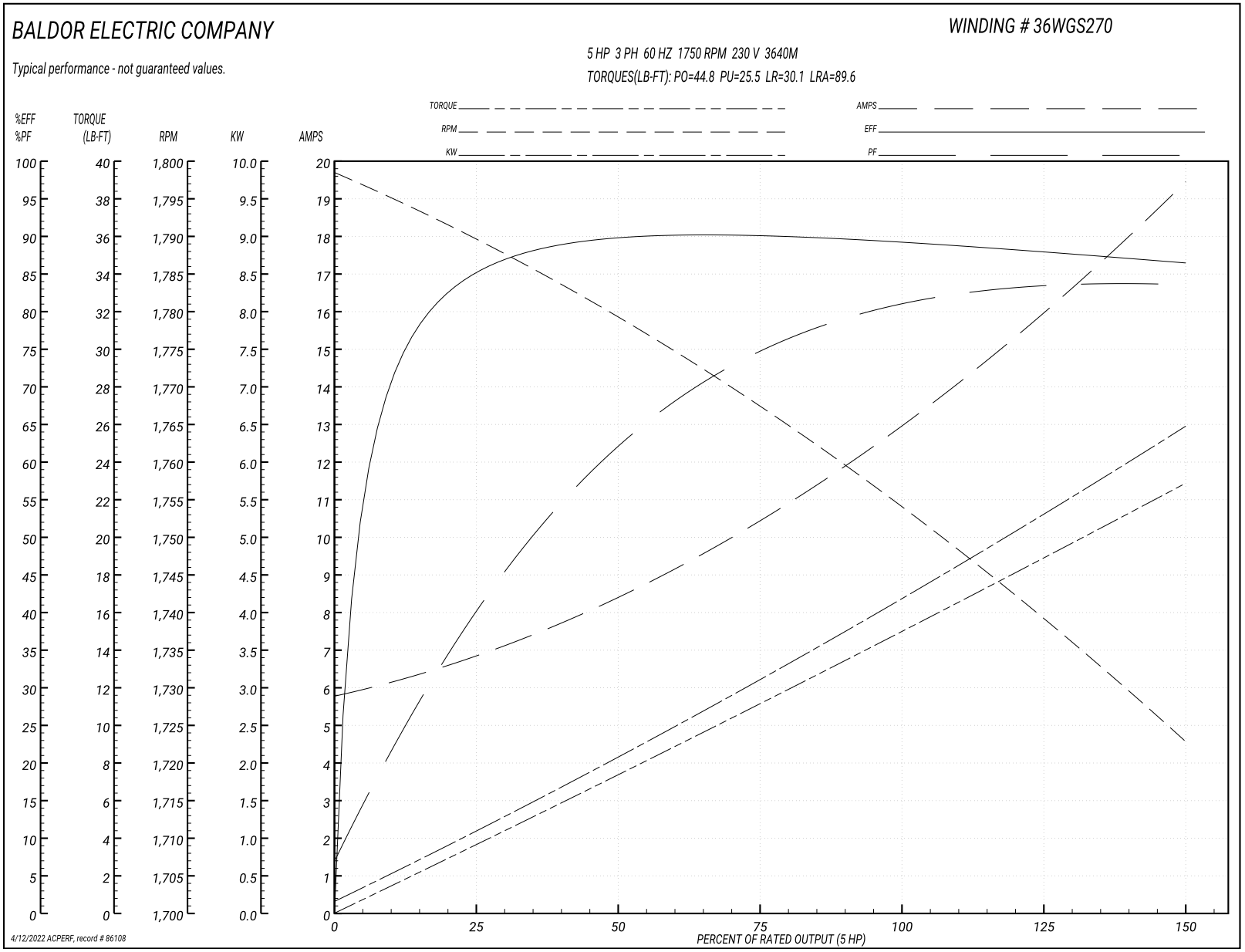
Winding: 36WGS270-R004 **Type:** 3640M **Enclosure:** OPSB

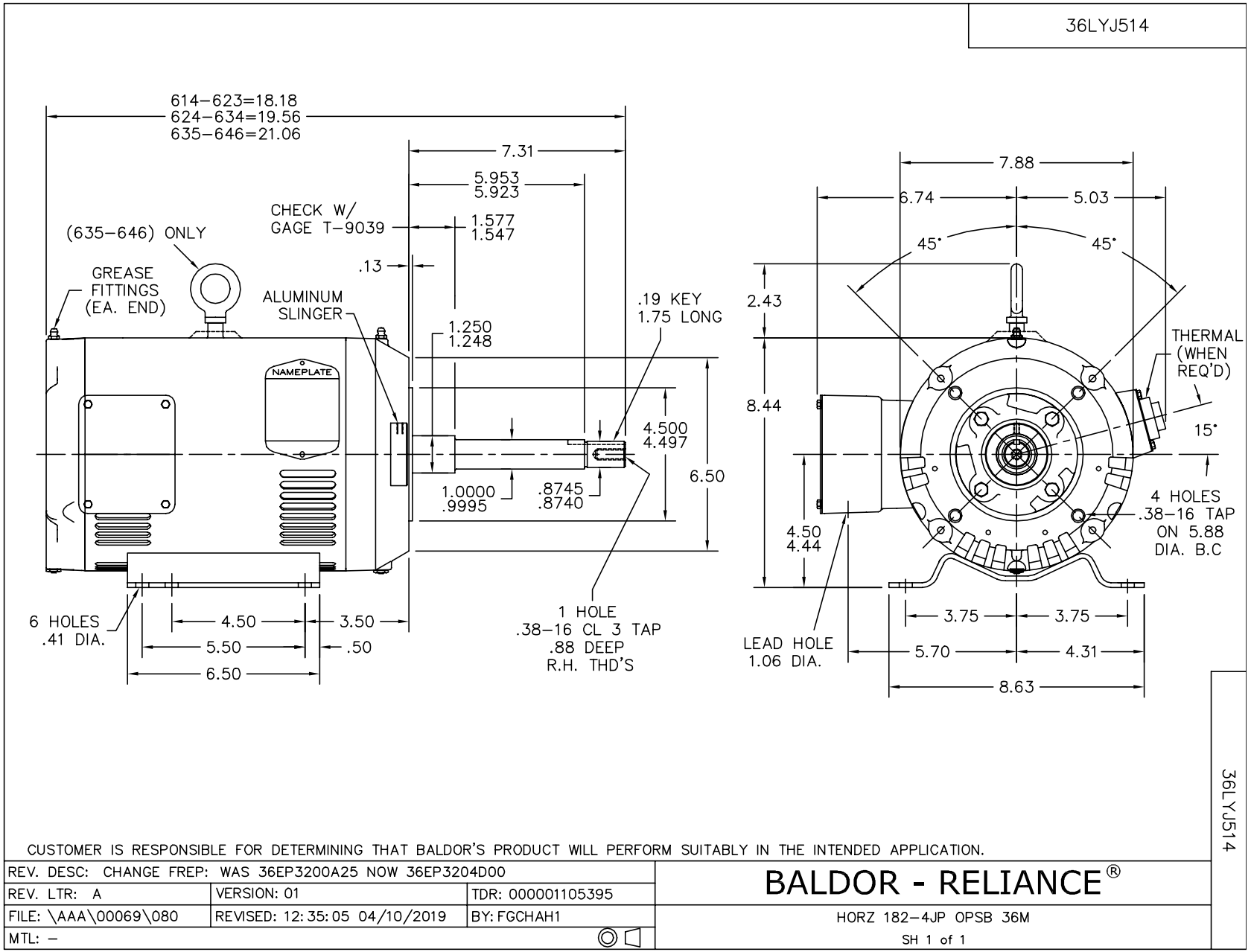
Nameplate Data			230 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)		5	**Full Load Torque**	15.05 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		13.2/6.6	**Breakdown Torque**	44.8 LB-FT
R.P.M.		1750	**Pull-up Torque**	25.5 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	30.1 LB-FT
NEMA Design Code	B **KVA Code**	J	**Starting Current**	89.6 A
Service Factor (S.F.)		1.15	**No-load Current**	5.94 A
NEMA Nom. Eff.	89.5 **Power Factor**	80	**Line-line Res. @ 25ºC**	0.656 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps			**Temp. Rise @ S.F. Load**	54°C
			Locked-rotor Power Factor	40.8
			Rotor inertia	0.372 lb-ft²

Load Characteristics 230 V, 60 Hz, 5 HP

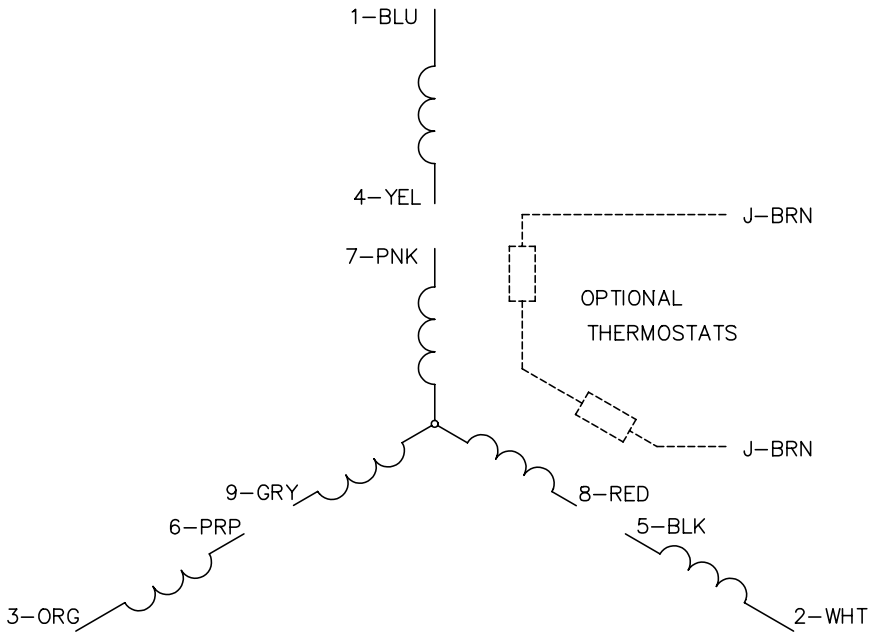
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	84.3	89.2	89.7	89.6	88.2	86.2	88.8
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	6.66	8.28	10.52	13.18	16.1	19.36	14.9

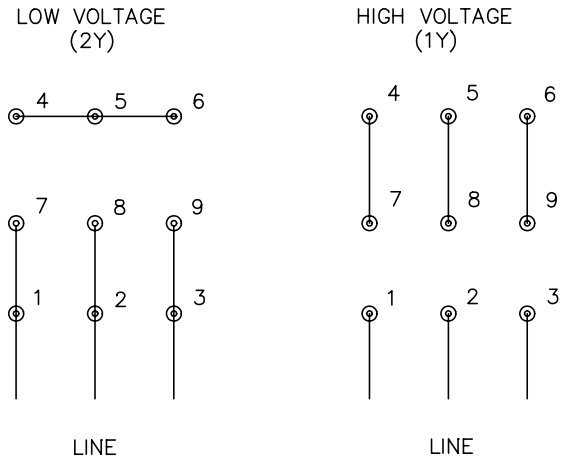
Performance Graph at 230V, 60Hz, 5.0HP Typical performance - Not guaranteed values




36LYJ514
614–623=18.18
624–634=19.56
635–646=21.06
7.31
5.953
5.923
CHECK W/
GAGE T–9039
1.577
1.547
(635–646) ONLY
.13
GREASE
FITTINGS
(EA. END)
ALUMINUM
SLINGER
.19 KEY
1.75 LONG
1.250
1.248
NAMEPLATE
4.500
4.497
6.50
1.0000
.9995
.8745
.8740
6 HOLES
.41 DIA.
4.50
3.50
5.50
.50
6.50
1 HOLE
.38–16 CL 3 TAP
.88 DEEP
R.H. THD'S
7.88
6.74
5.03
45°
45°
2.43
8.44
THERMAL
(WHEN
REQ'D)
15°
4 HOLES
.38–16 TAP
ON 5.88
DIA. B.C
4.50
4.44
LEAD HOLE
1.06 DIA.
3.75
3.75
5.70
4.31
8.63
36LYJ514
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: CHANGE FREP: WAS 36EP3200A25 NOW 36EP3204D00
REV. LTR: A
VERSION: 01
TDR: 000001105395
FILE: \AAA\00069\080
REVISED: 12:35:05 04/10/2019
BY: FGCHAH1
MTL: –
BALDOR - RELIANCE®
HORZ 182–4JP OPSB 36M
SH 1 of 1

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