

BALDOR® • RELIANCE

Product Information Packet

CEM7044T-I

5//3HP,1750//1450RPM,3PH,60//50HZ,182TC

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3643M	Elec. Spec:	36WGT031	CD Diagram:	CD0005
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	36N864	Layout:	36LYN864
Frame:	184TC	Mounting:	F1	Poles:	04	Created Date:	01-15-2013
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	04-04-2014
Leads:	9#16					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP0977XPSL							
NO.		CC	010A				
SER.		TEMP CODE	T3C				
SPEC.	36N864T031G1						
CAT.NO.	CEM7044T-I						
HP	5//3						
VOLTS	230/460//190/380						
AMPS	13/6.5//10.4/5.2						
RPM	1750//1450	MOTOR WEIGHT	136 LB				
HERTZ	60//50	PH	3	CL	F	DE BRG	6206
SER.F.	1.15	DES	B	CODE	K	ODE BRG	6205
FRAME	184TC	GREASE	POLYREX EM				
RATING	40C AMB-CONT						
USABLE AT 208V	13.6	NEMA-NOM-EFF	89.5	PF	80		
	55C AMB @ 1.0 SF						

Parts List		
Part Number	Description	Quantity
SA257161	SA 36N864T031G1	1.000 EA
RA243949	RA 36N864T031G1	1.000 EA
35CB1005A01	CONDUIT BOX,MACH - GROUP "C" MTRS	1.000 EA
06EP1709A05	FRONT XPFC 205 BRG GRP C W/ DRAIN (HW450	1.000 EA
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 EA
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	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
36EP1703A17	PUEP - GROUP C & E, DRAIN (HW4506A02)	1.000 EA
HA2009A81	SLINGER FOR GROUP E MTRS - 06 BRG.	1.000 EA
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 EA
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 EA
HW4001A01	1/4 HX SOC PIPE PLG (F/S) ALLOY STEEL W/	2.000 EA
60XN1032A07	10-32 X 1/2 TRUSS HEAD, TORX SERRATED ZN	2.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
80XN0632J06	SET SCREW, 6-32 X 3/8", HEX SOCKET, AS	2.000 EA
36FH2000A05	FAN COVER, MACH W/(2) GRSR HOLES	1.000 EA
12XF1032A08	10-32X1/2 TY F HEX X	4.000 EA
35CB1501A01	CONDUIT BOX LID, MACH. - GROUP "C" MTRS	1.000 EA
RM1020A41	O-RING, -150 BUNA-N, .103 CS X 2.862 ID	1.000 EA
HW2501E16	3KEY, 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
LB1359	ALUM XP CAUTION LABEL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LB9002A50	CMC-5000 BRADY WIRE MARK	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
MG1025Z20	ACTIVATOR WILKOFAS 060.32	0.010 GA
MG1025G29	MUNSELL 4.5Y 5.3/0.7 DARK CHARCOAL GREY	0.022 GA
HA3105A18	THRUBOLT- 3/8-16 X 13.375 X	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1172A01	CUSTOM MTR CARTON LABEL LASER PRINTER	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP0977XPSL	SS XP UL CSA CC CL-I GP-C&D	1.000 EA
37PA1043	PACKAGING GROUP, STD -E (37XL)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 32376 - Typical performance - not guaranteed values

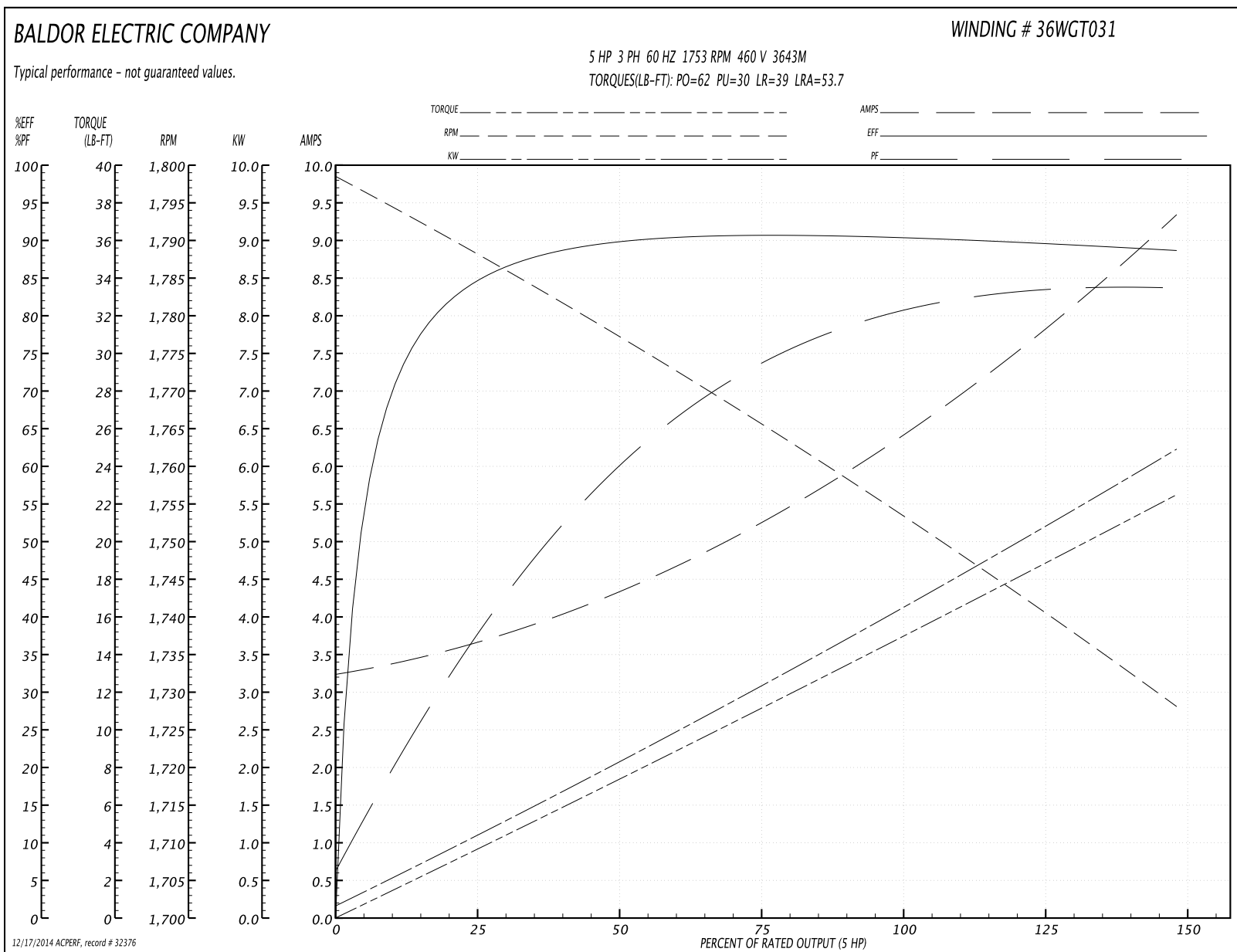
Winding: 36WGT031-R071	Type: 3643M	Enclosure: XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5//3			Full Load Torque	15 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	13/6.5//10.4/5.2			Breakdown Torque	62 LB-FT
R.P.M.	1750//1450			Pull-up Torque	30 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	39 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	53.7 A
Service Factor (S.F.)	1.15			No-load Current	3.3 A
NEMA Nom. Eff.	89.5	Power Factor	80	Line-line Res. @ 25°C	2.13 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	60°C
S.F. Amps				Temp. Rise @ S.F. Load	72°C
				Rotor inertia	0.4 LF ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	74	80	84	86	82
Efficiency	84.7	89.7	90.7	90.4	89.7	88.6	90
Speed	1787	1777	1766	1753	1741	1728	1746
Line amperes	3.6	4.3	5.3	6.5	7.8	9.3	7.3

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



AC Induction Motor Performance Data

Record # 38923 - Typical performance - not guaranteed values

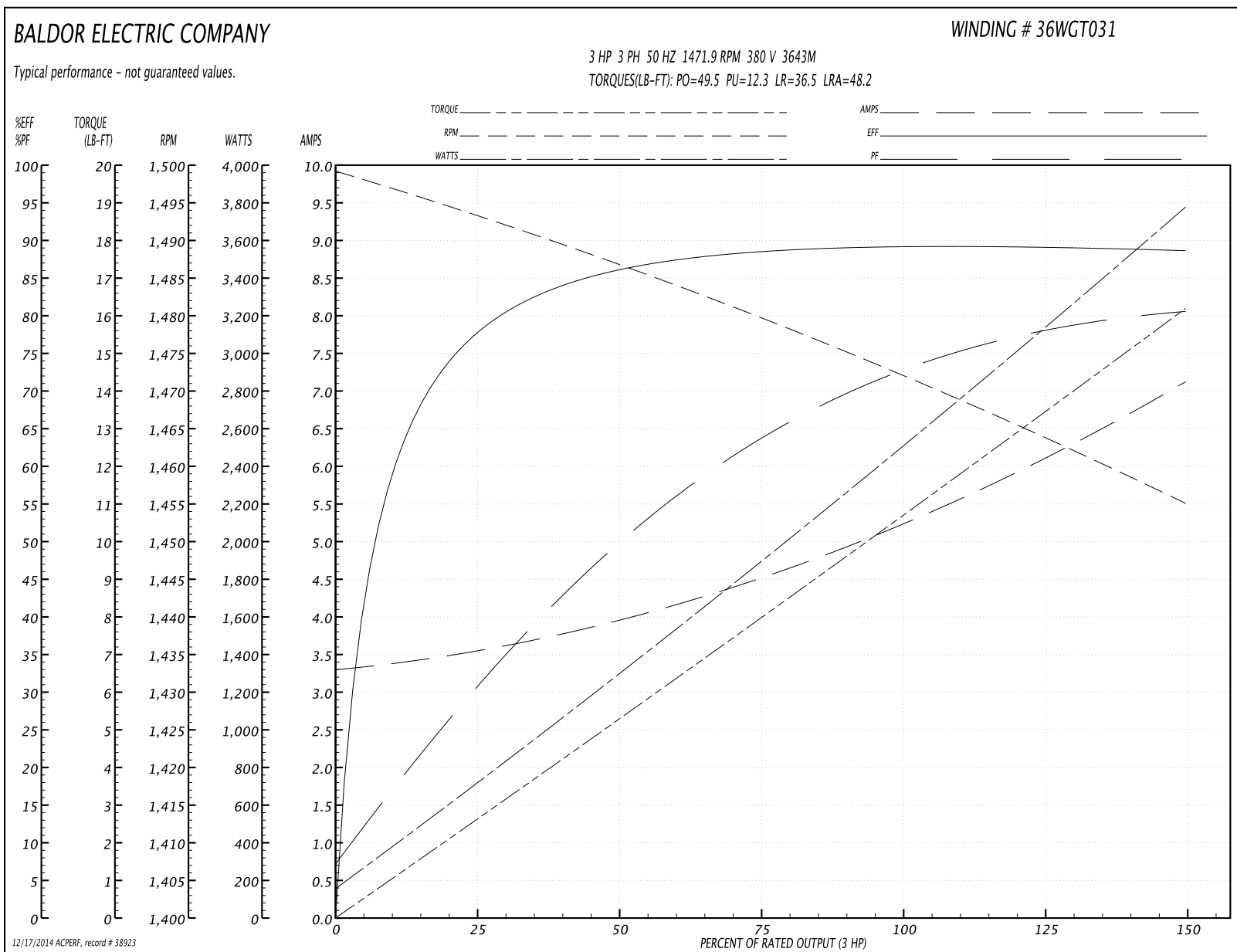
Winding: 36WGT031-R071	Type: 3643M	Enclosure: XPFC
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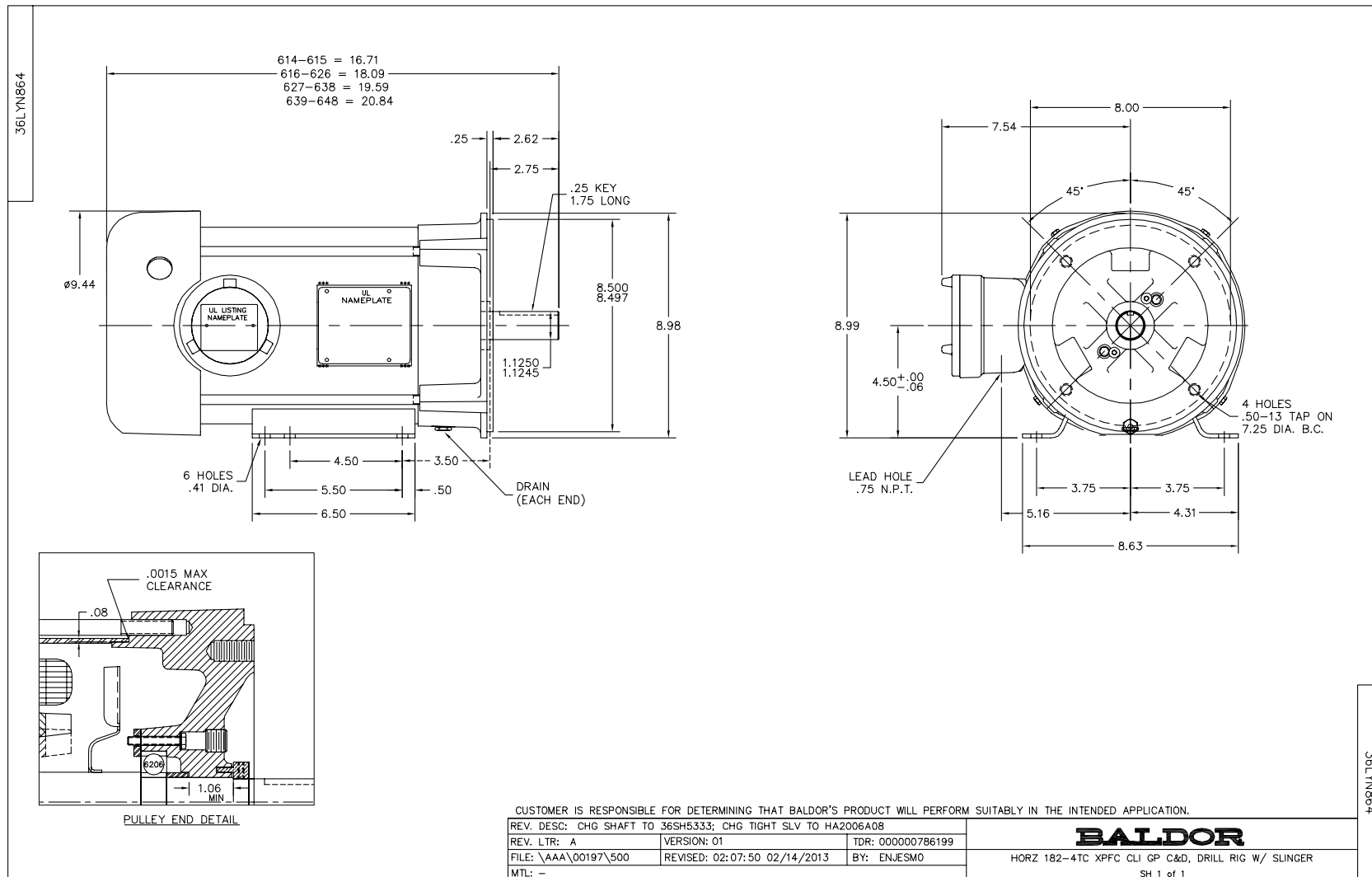
Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	5//3			Full Load Torque	10.7 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	13/6.5//10.4/5.2			Breakdown Torque	49.5 LB-FT
R.P.M.	1750//1450			Pull-up Torque	12.3 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	36.5 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	48.2 A
Service Factor (S.F.)	1.15			No-load Current	3.34 A
NEMA Nom. Eff.	89.5	Power Factor	80	Line-line Res. @ 25°C	2.2945 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	39°C
S.F. Amps				Temp. Rise @ S.F. Load	45°C
				Rotor inertia	0.4 LF ²

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	63	72	78	81	76
Efficiency	77.9	86	88.5	89.2	89.2	88.7	89.2
Speed	1493.7	1486.7	1479.6	1471.9	1463.6	1455.2	1467
Line amperes	3.51	3.92	4.53	5.28	6.15	7.09	5.8

Performance Graph at 380V, 50Hz, 3.0HP Typical performance - Not guaranteed values

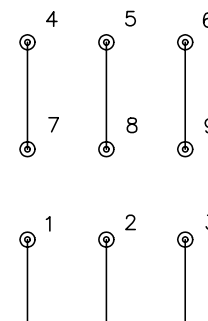




CD0005


 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

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005