

BALDOR® • **RELIANCE**

Product Information Packet

CTM1762T

20HP, 1770RPM, 3PH, 60HZ, 256T, TEFC, FOOT,

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0944M	Elec. Spec:	09WGX186	CD Diagram:	CD0032
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	09J957	Layout:	09LYJ957
Frame:	256T	Mounting:	F1	Poles:	04/08	Created Date:	08-15-2014
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-11-2016
Leads:	6#12					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1258E											
CAT.NO.	CTM1762T										
SPEC.	09J957X186G1										
HP	20/5										
VOLTS	460										
AMP	23.6/9.3										
RPM	1760/875										
FRAME	256T				HZ	60		PH	3		
SER.F.	1.15			CODE	H		DES	B		CL	F
NEMA-NOM-EFF					PF						
RATING	40C AMB-CONT										
CC									USABLE AT 208V		
DE	6309				ODE	6309					
ENCL	TEFC			SN							

Nameplate NP0090E

FRONT 6309

PULLEY 6309

LUBRICATE WITH

GREASE POLYREX EM

Parts List		
Part Number	Description	Quantity
SA286542	SA 09J957X186G1	1.000 EA
RA272774	RA 09J957X186G1	1.000 EA
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 EA
09CB1002A12E	KOBX W/1.25 NPT LEAD HOLE & 2.38 MTG HOL	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
10XN2520K12	1/4-20 X.75 GRD 5	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
10XN2520K06	1/4-20 X 3/8" HX HD SCREWGRADE 5, ZINC P	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
HA3400A39	STUD- 3/8-16 X 6.19 OAL HEX WELKER	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW4600B53	SEAL 1.688 X 2.275 X 0.312 SINGLE LIP DB	1.000 EA
HW4600B53	SEAL 1.688 X 2.275 X 0.312 SINGLE LIP DB	1.000 EA
HA1005A18	SLINGER, OD 3.00, ID 1.610	1.000 EA
HA4017A08	.125X3.50 GREASER EXTEN.	1.000 EA
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	2.000 EA
09EP1101A97E	PUEP,MODEL 309 - 309 BRG, W/E-COAT	1.000 EA
09FH1000	FAN COVER,CAST W/E-COAT	1.000 EA
10XN3816K24	3/8-16 X 1.50 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
12CB1503A01E	CONDUIT BOX LID, MACH, WITH LIP	1.000 EA
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MJ5001A14	DYNAPRO SEAL, CP MOTORS VC#2508050 (603	0.023 EA
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 EA
09EP1118A19GE6	FREP MACH W/GRSR,RLF,DRAIN,SEAL,E-COAT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.080 LB
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA

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09FN3001A01	EXTERNAL FAN, PLASTIC	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025N19	WILKOFASST, 778.50, RELIANCE BLUE-GREEN	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0032	CONNECTION LABEL	1.000 EA
NP1258E	SS CP UL CSA CC	1.000 EA
NP0090E	SS NO LOGO'S BEARING & GREASE DATA	1.000 EA
09PA1000	PACKAGING GROUP COMBINED PRINT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 43648 - Typical performance - not guaranteed values

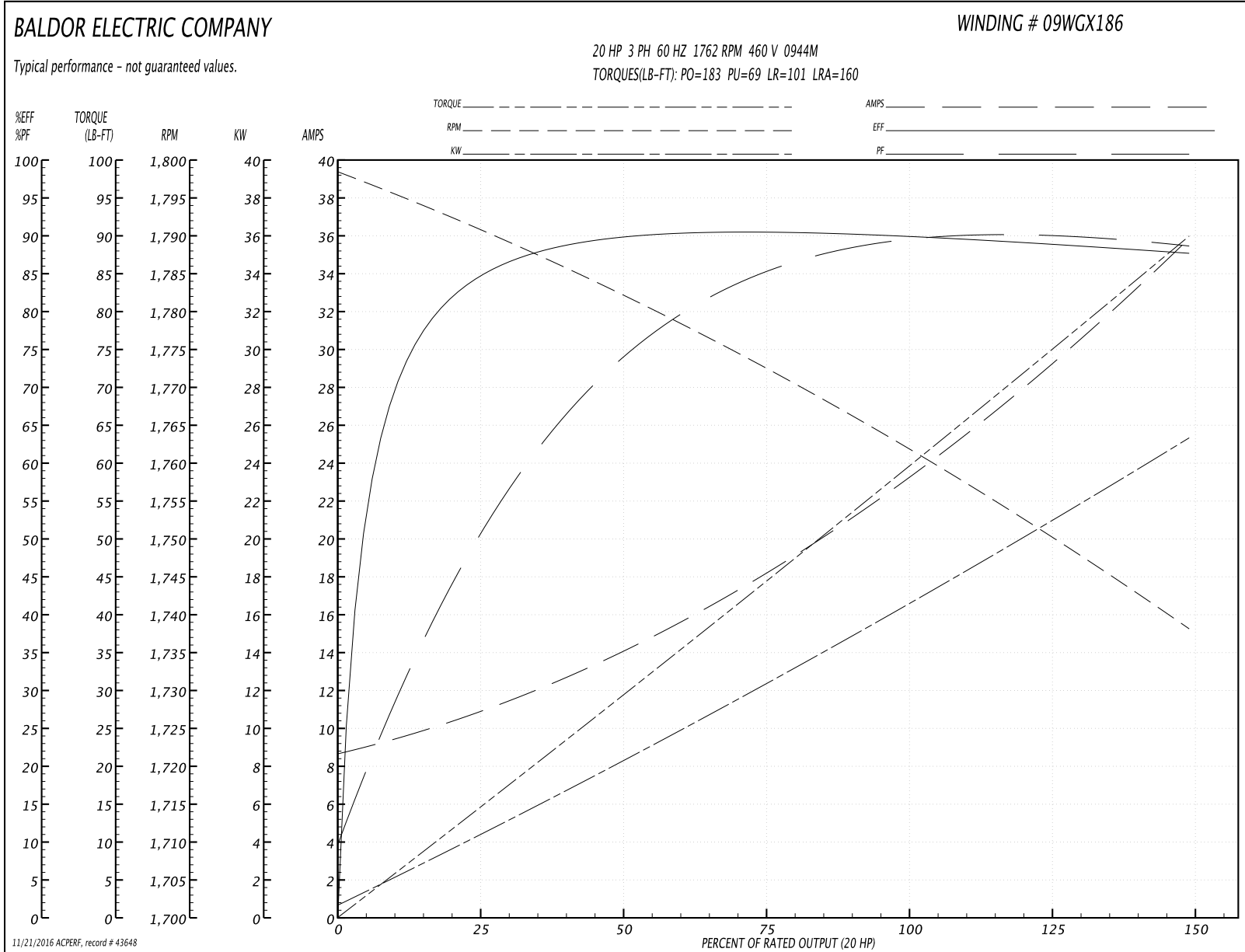
Winding: 09WGX186-R002	Type: 0944M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Speed Connection	
Rated Output (HP)	20/5			Full Load Torque	60 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	23.6/9.3			Breakdown Torque	183 LB-FT
R.P.M.	1760/875			Pull-up Torque	69 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	101 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	160 A
Service Factor (S.F.)	1.15			No-load Current	9 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	0.611 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	78°C
S.F. Amps				Temp. Rise @ S.F. Load	95°C

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	76	85	89	89	89	89
Efficiency	84.6	89.6	90.5	90	89	87.6	89.4
Speed	1790	1781	1773	1762	1750	1738	1755
Line amperes	10.5	14	18.5	23.6	29.5	35.6	27.1

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 43649 - Typical performance - not guaranteed values

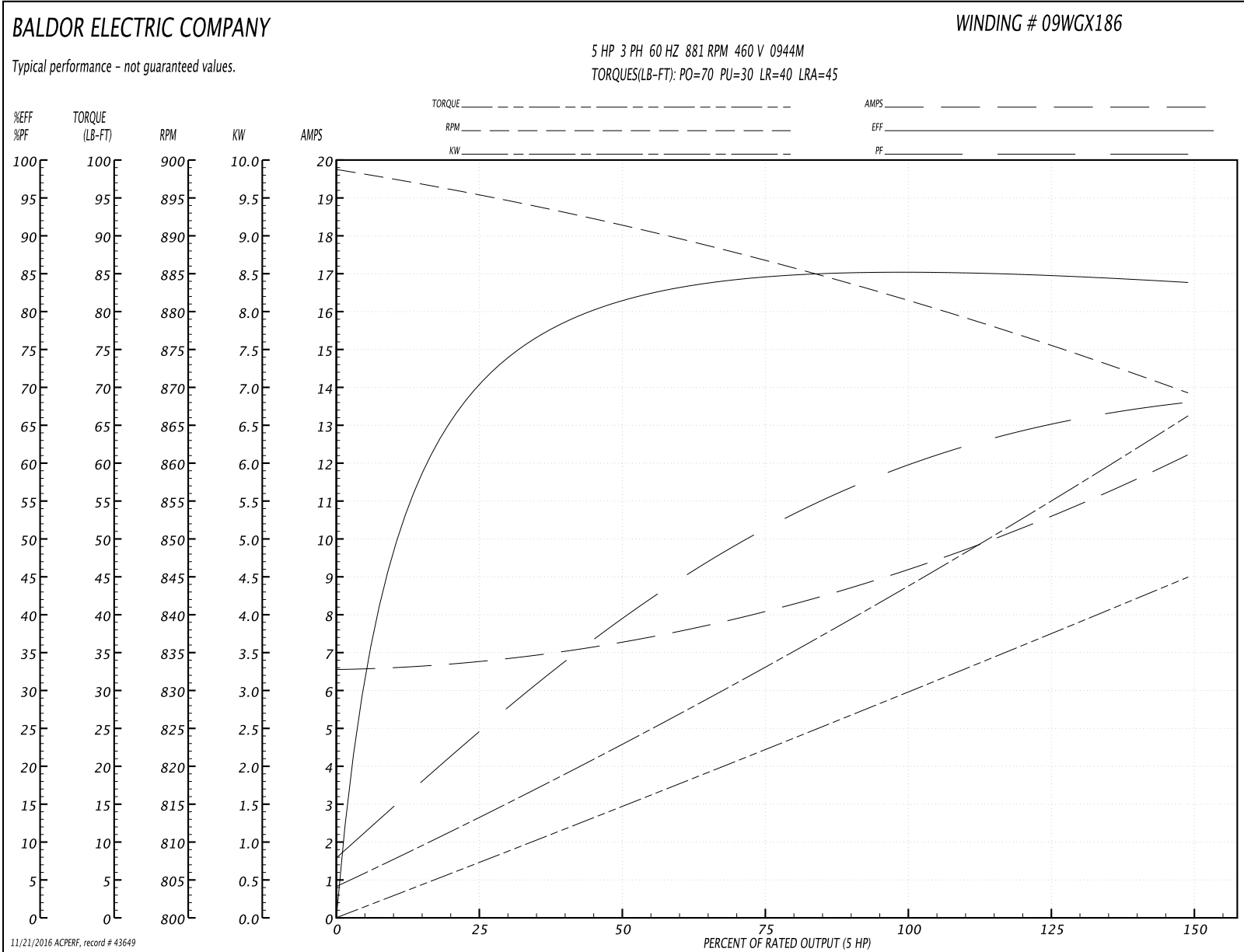
Winding: 09WGX186-R002	Type: 0944M	Enclosure: TEFC
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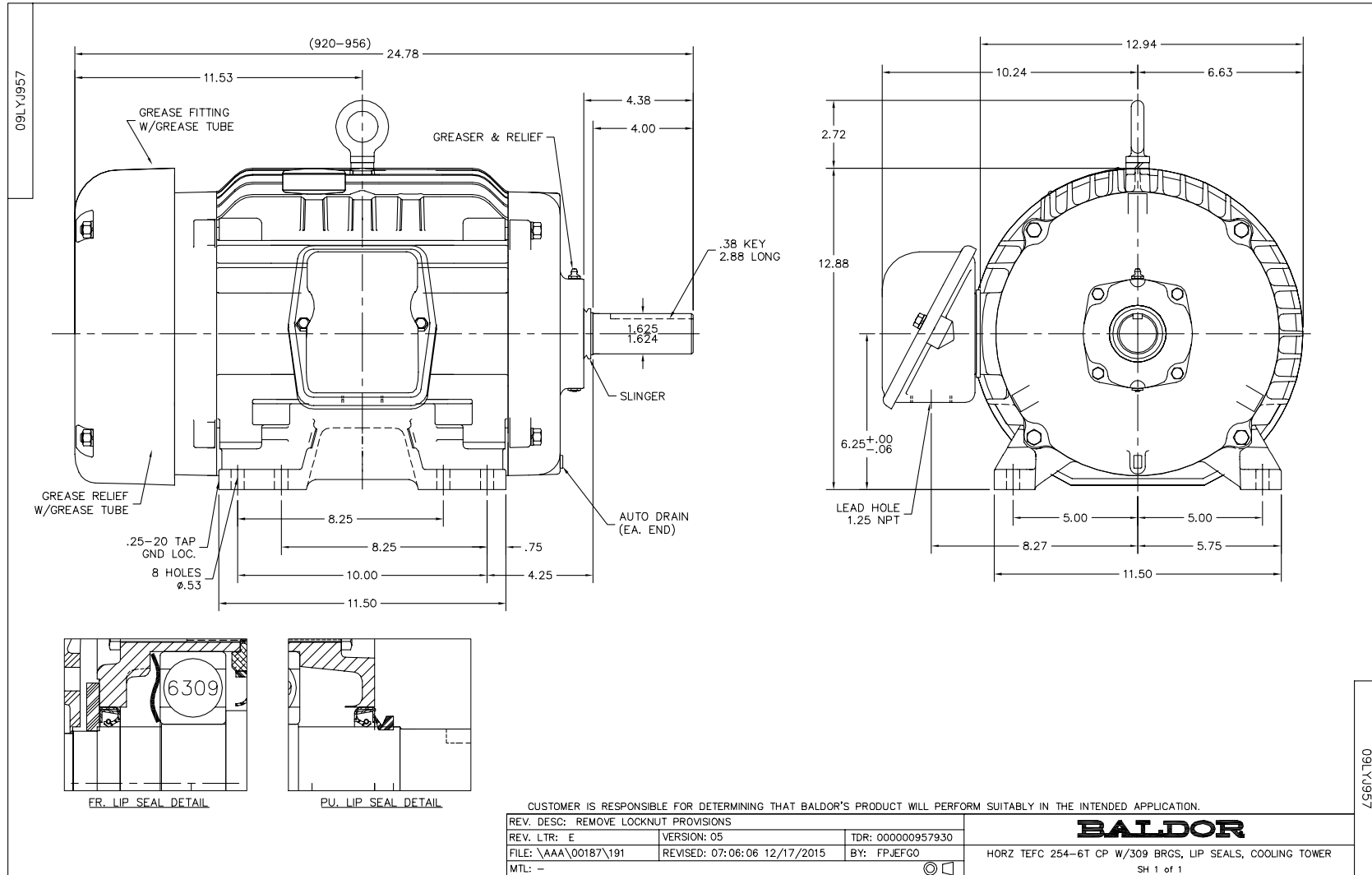
Nameplate Data				460 V, 60 Hz: Low Speed Connection	
Rated Output (HP)	20/5			Full Load Torque	30 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	23.6/9.3			Breakdown Torque	70 LB-FT
R.P.M.	1760/875			Pull-up Torque	30 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	40 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	45 A
Service Factor (S.F.)	1.15			No-load Current	6.6 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	2.51 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	48°C
S.F. Amps				Temp. Rise @ S.F. Load	55°C

Load Characteristics 460 V, 60 Hz, 5 HP

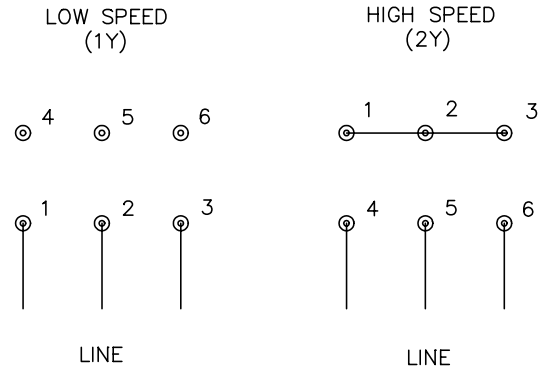
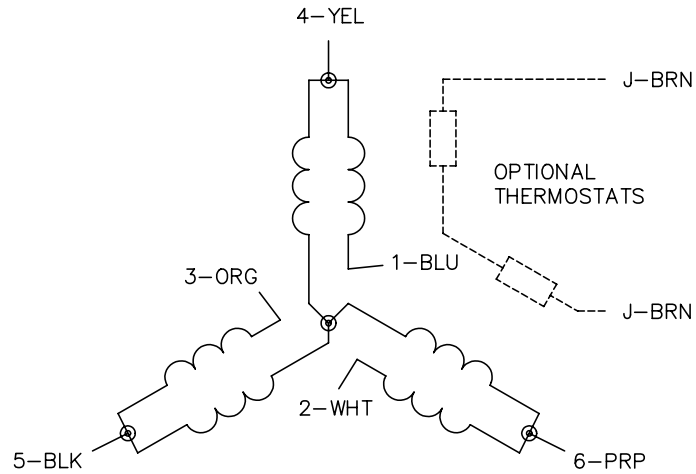
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	40	52	60	65	68	63
Efficiency	71.8	81.4	84.5	85.1	84.9	83.8	85
Speed	895	891	887	881	876	869	878
Line amperes	6.7	7.3	8.1	9.3	10.6	12.2	10.1

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





CD0032



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: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032