

BALDOR® • RELIANCE

Product Information Packet

ECP82334T-5

20HP,1765RPM,3PH,60HZ,256T,0960M,TEFC,F1

Part Detail							
Revision:	AN	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0960M	Elec. Spec:	09WGZ220	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	09G944	Layout:	09LYG944
Frame:	256T	Mounting:	F1	Poles:	04	Created Date:	07-13-2006
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	06-27-2016
Leads:	3#12					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3190

STK.NO.	ECP82334T-5		P/N			ENCLOSURE	TEFC			
SPEC.	09G944Z220		CC	010A	FRAME	256T	S/N			
HP	20		CLASS	F	HZ	60	ODE BRG	6309	DE BRG	6309
RPM	1765	RPM MAX	2700	PH	3	DES	B	D.E. BRG.	45BC03X30X	
VOLT	575		KVA-CODE	G			O.D.E. BRG.	45BC03X30X		
AMP	19		MOTOR WEIGHT	361			GREASE	POLYREX EM		
RATING	40C AMB-CONT		MAX. KVAR	4.2			BLANK			
NEMA-NOM-EFF	93	# OF ROTOR BARS	40	SER.F.	1.15		IP	56		
G.MIN.EFF	91.7	# OF STATOR SLOTS	48	PF	86		INV.TYPE	PWM		
TEMP CODE	T3C	INVERTER-TEMP-CODE	180							
TEMP =	160	C HP FR	60	C HP TO	90					
CT HZ FROM	1.3	CT HZ TO	60							
HTR-VOLTS		HTR-AMPS		HTR-WATTS			MAX. SPACE HEATER TEMP.			
							VT HZ FROM	O	VT HZ TO	60

Parts List		
Part Number	Description	Quantity
SA145780	SA 09G944Z220	1.000 EA
RA134907	RA 09G944Z220	1.000 EA
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.500 ID	1.000 EA
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 EA
09CB1002A12P	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
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
HW4500A20	1/8NPT SL PIPE PLUG	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
HA4002A01	DRAIN PLUG STAINLESS STL	1.000 EA
HW4601A61	INPRO SEAL #1698-A-17120-0, VBXX 309 BRG	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	4.000 EA
09EP1118A01P	PUEP MACH, 309 BRG.INPRO SEALS-EPOXY PRI	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
12CB1503A01E	CONDUIT BOX LID, MACH, WITH LIP	1.000 EA
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 EA
HA4002A01	DRAIN PLUG STAINLESS STL	1.000 EA
HW4601A61	INPRO SEAL #1698-A-17120-0, VBXX 309 BRG	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 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
MJ5004A59	ADHESIVE LOCTITE #401 SURFACE INSENSITIV	0.010 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
WD1000B49	T&B C73,RING TERMINAL 10-12 AWG 3/8 STUD	3.000 EA
09EP1118A02GP6	FREP MACH, 309 BRG. EPOXY PRIMER	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.080 LB

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HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
09FH1000GE6	FAN COVER, CAST W/E-COAT & PAINT	1.000 EA
MG1025N19	WILKOFAS, 778.50, RELIANCE BLUE-GREEN	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3190	SS IEEE841 INV DIV-2 UL CSA-C US EEV	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA

AC Induction Motor Performance Data

Record # 47080 - Typical performance - not guaranteed values

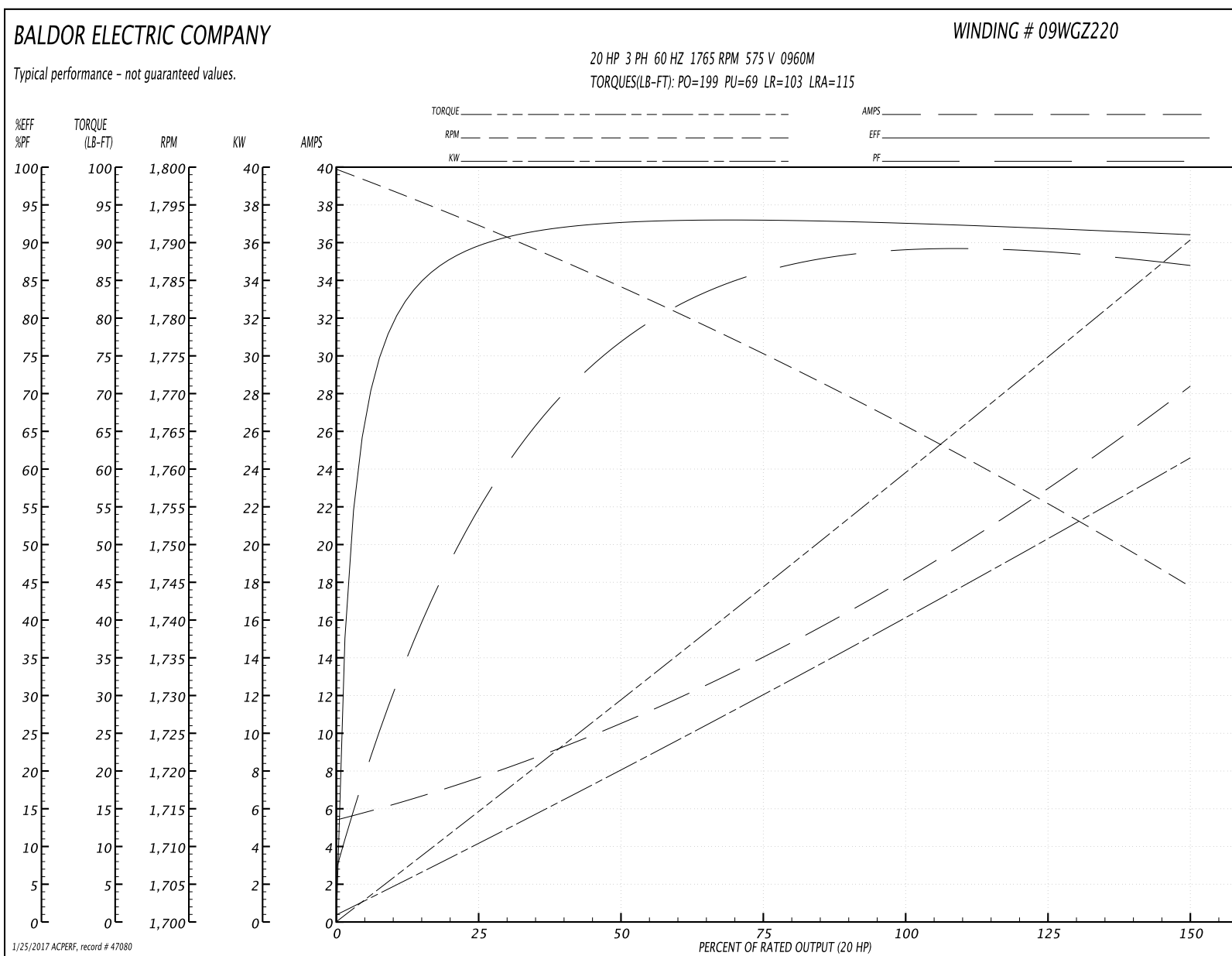
Winding: 09WGZ220-R008	Type: 0960M	Enclosure: TEFC
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Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	59.5 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	19			Breakdown Torque	199 LB-FT
R.P.M.	1765			Pull-up Torque	69 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	103 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	115 A
Service Factor (S.F.)	1.15			No-load Current	5.73 A
NEMA Nom. Eff.	93	Power Factor	86	Line-line Res. @ 25°C	0.709 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	62°C
S.F. Amps				Temp. Rise @ S.F. Load	78°C
				Locked-rotor Power Factor	30.1
				Rotor inertia	2.62 LB-FT ²

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	76	83	86	86	86	86
Efficiency	89.6	92.8	93.3	93	92.3	91.4	92.6
Speed	1792	1784	1775	1766	1756	1744	1760
Line amperes	7.23	10.3	14.2	18.4	23.1	28.2	21.2

Performance Graph at 575V, 60Hz, 20.0HP Typical performance - Not guaranteed values



1/25/2017 ACPERF, record # 47080

AC Induction Motor Performance Data

Record # 50589 - Typical performance - not guaranteed values

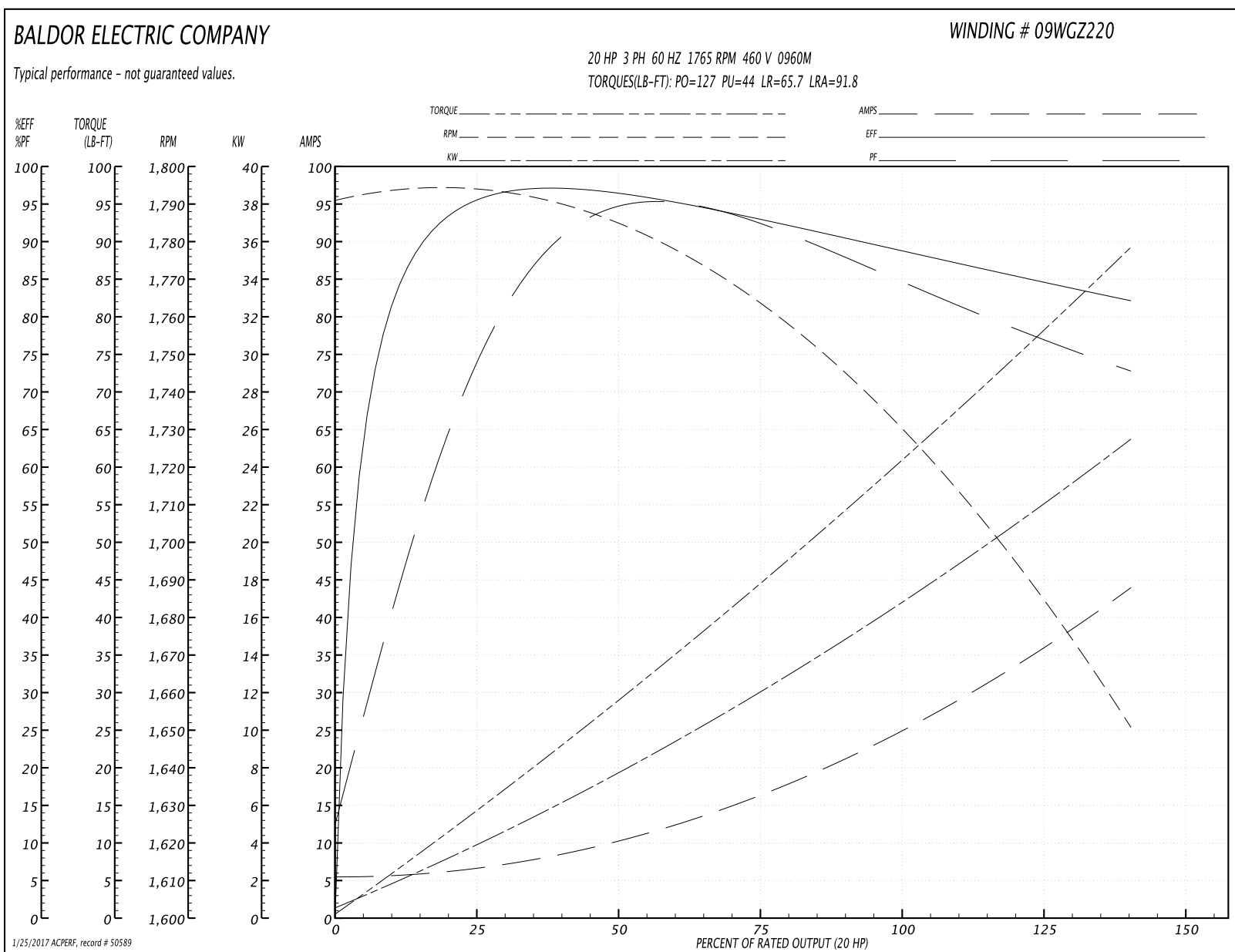
Winding: 09WGZ220-R008	Type: 0960M	Enclosure: TEFC
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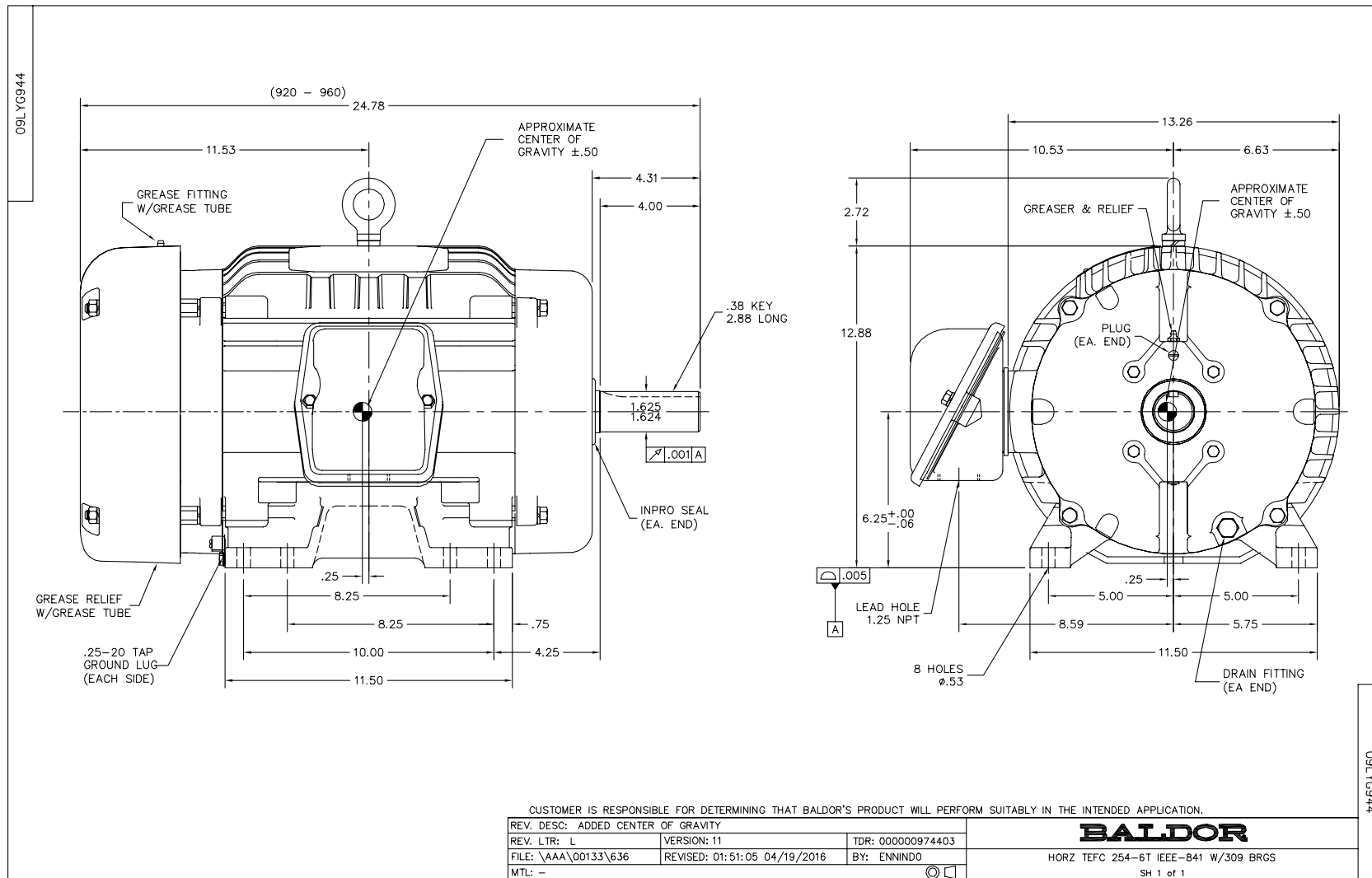
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	60.4 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	19			Breakdown Torque	127 LB-FT
R.P.M.	1765			Pull-up Torque	44 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	65.7 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	91.8 A
Service Factor (S.F.)	1.15			No-load Current	4.53 A
NEMA Nom. Eff.	93	Power Factor	86	Line-line Res. @ 25°C	0.709 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	86°C
S.F. Amps				Temp. Rise @ S.F. Load	122°C
				Locked-rotor Power Factor	30.1
				Rotor inertia	2.62 LB-FT ²

Load Characteristics 460 V, 60 Hz, 20 HP

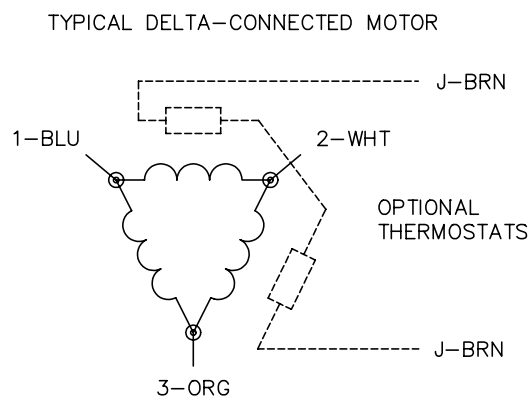
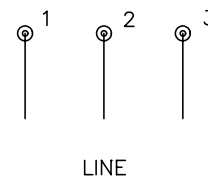
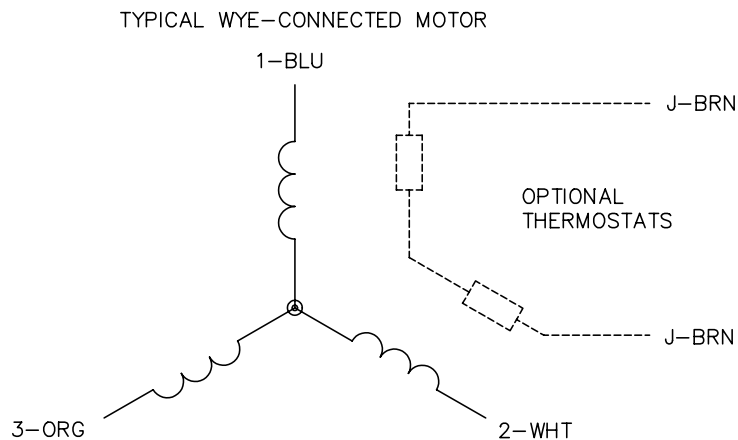
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	73	87	88	87	83	70	85
Efficiency	91.1	92.6	91.9	90.4	87.8	80	88.8
Speed	1787	1774	1759	1740	1712	1627	1723
Line amperes	7.11	11.7	17.3	23.7	32.1	47.2	28.7

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





CD0006



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D

BY: JLP

REVISED: 01/21/99 4:02

TDR: 0171435

9000D

FILE: AAA00005141

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006