

BALDOR® • RELIANCE

Product Information Packet

ECP82334T-4

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

Part Detail							
Revision:	AR	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0960M	Elec. Spec:	09WGY946	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:	10-04-2016
Leads:	3#12					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3190

STK.NO.	ECP82334T-4	P/N		ENCLOSURE	TEFC
SPEC.	09G944Y946G1	CC	010A	FRAME	256T
HP	20	CLASS	F	HZ	60
RPM	1760	PH	3	DES	B
RPM MAX	2700	KVA-CODE	G	ODE BRG	6309
VOLT	460	MOTOR WEIGHT	350	DE BRG	6309
AMP	23.1	MAX. KVAR	4.2	D.E. BRG.	45BC03X30X
RATING	40C AMB-CONT	SER.F.	1.15	O.D.E. BRG.	45BC03X30X
NEMA-NOM-EFF	93	# OF ROTOR BARS	40	GREASE	POLYREX EM
G.MIN.EFF	91.7	# OF STATOR SLOTS	48	BLANK	
TEMP CODE	T3C	INVERTER-TEMP-CODE	180	IP	56
TEMP =	160	C HP FR	60	INV.TYPE	PWM
CT HZ FROM	1.3	C HP TO	90		
HTR-VOLTS		HTR-AMPS		HTR-WATTS	
				MAX. SPACE HEATER TEMP.	
				VT HZ FROM	0
				VT HZ TO	60

Parts List		
Part Number	Description	Quantity
SA145625	SA 09G944Y946G1	1.000 EA
RA134766	RA 09G944Y946G1	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
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	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
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
12CB1503A01E	CONDUIT BOX LID, MACH, WITH LIP	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
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
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
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 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
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
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
09FN3001D01	EXTERNAL FAN, PLASTIC	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 # 47075 - Typical performance - not guaranteed values

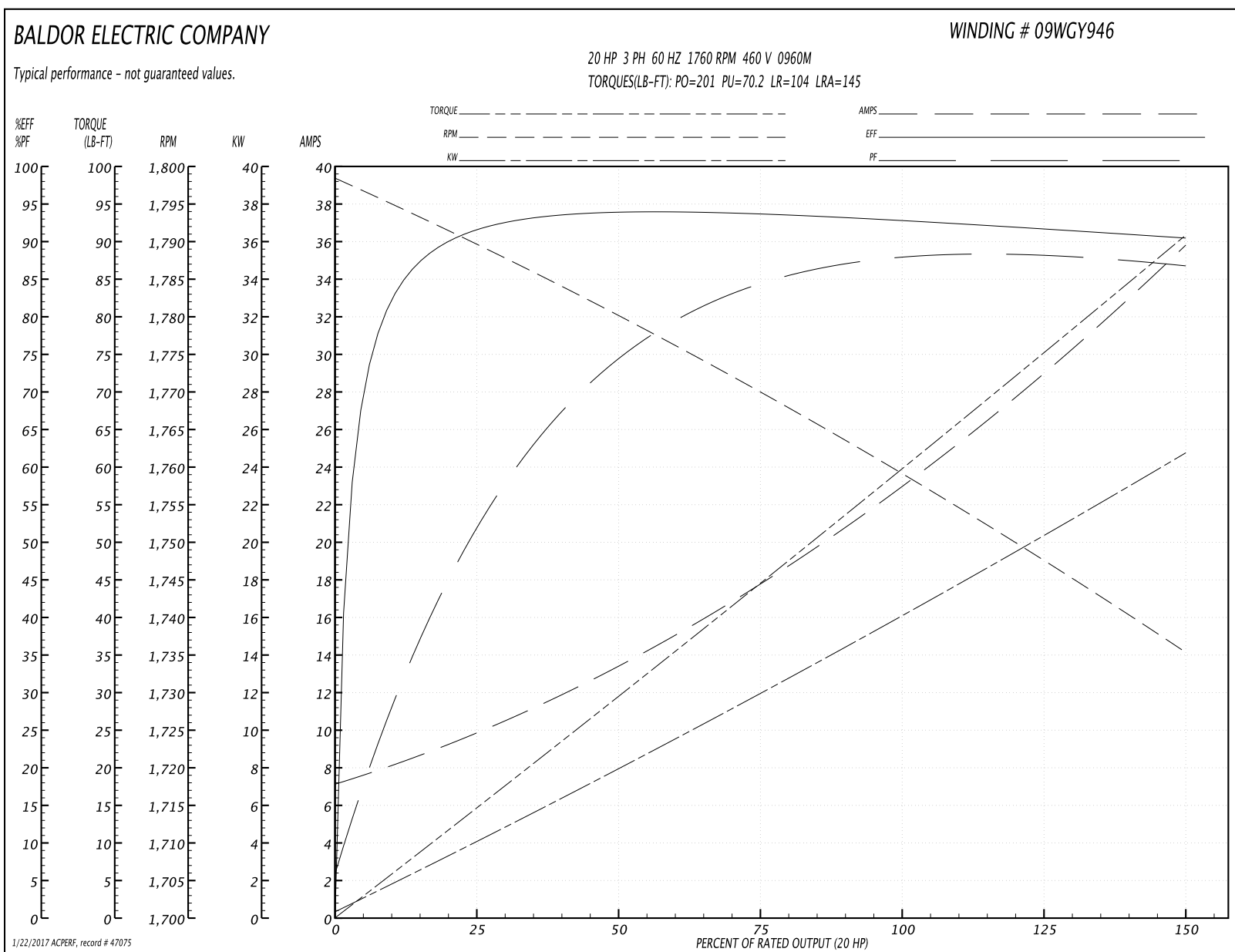
Winding: 09WGY946-R035	Type: 0960M	Enclosure: TEFC
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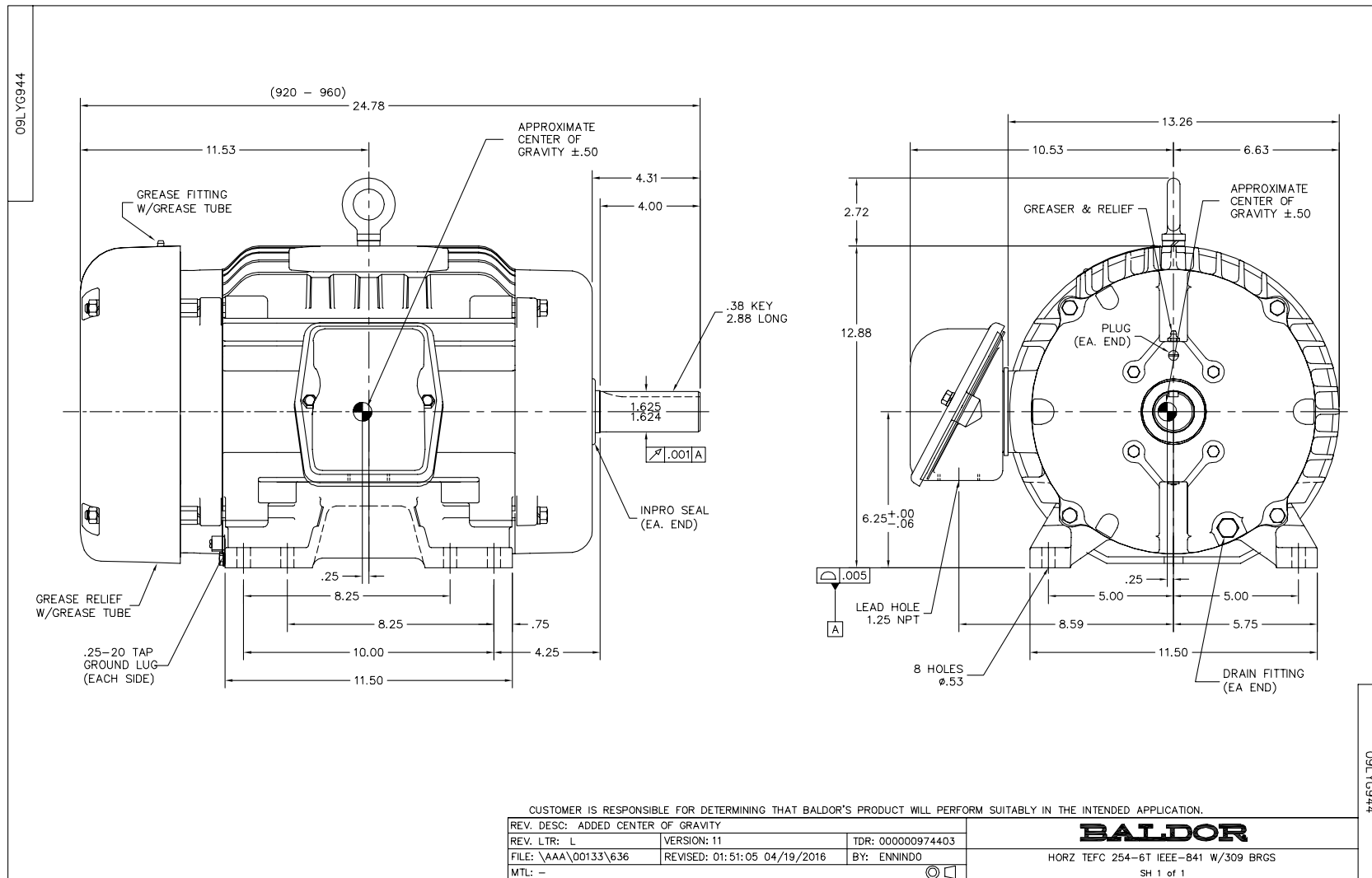
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	59.2 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	23.1			Breakdown Torque	201 LB-FT
R.P.M.	1760			Pull-up Torque	70.2 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	104 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	145 A
Service Factor (S.F.)	1.15			No-load Current	7.54 A
NEMA Nom. Eff.	93	Power Factor	86	Line-line Res. @ 25°C	0.455 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 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	84	86	88	87	87
Efficiency	91.1	93.6	93.6	93	91.8	90.4	92.2
Speed	1789	1780	1770	1760	1748	1735	1753
Line amperes	9.28	13.1	18	23.1	29	35.6	26.6

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





CD0006

TYPICAL WYE-CONNECTED MOTOR

1-BLU

3-ORG

2-WHT

J-BRN

J-BRN

OPTIONAL THERMOSTATS

TYPICAL DELTA-CONNECTED MOTOR

1-BLU

2-WHT

3-ORG

J-BRN

J-BRN

OPTIONAL THERMOSTATS

1

2

3

LINE

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				BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435	
9000D		FILE: AAA00005141	MDL: -	
		MTL: -		

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

CD0006

Page 10 of 10

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