

BALDOR® • RELIANCE

Product Information Packet

ECP84104T-4

30HP,1770RPM,3PH,60HZ,286T,1060M,TEFC,F1

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1060M	Elec. Spec:	10WGZ438	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	10G187	Layout:	10LYG187
Frame:	286T	Mounting:	F1	Poles:	04	Created Date:	07-21-2015
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-04-2017
Leads:	3#10					Replaced By:	
Literature:		Elec. Diagram:					

STK.NO.	ECP84104T-4	P/N		ENCLOSURE	TEFC
SPEC.	10G187Z438	CC	010A	FRAME	286T
HP	30	CLASS	F	HZ	60
RPM	1770	RPM MAX	2700	PH	3
VOLT	460	KVA-CODE	E	DE BRG	6311
AMP	37	MOTOR WEIGHT	465	D.E. BRG.	55BC03X30X
RATING	40C AMB-CONT	MAX. KVAR	8.6	O.D.E. BRG.	55BC03X30X
NEMA-NOM-EFF	93.6	# OF ROTOR BARS	40	GREASE	POLYREX EM
G.MIN.EFF	92.4	SER.F.	1.15	BLANK	
TEMP CODE	T3C	PF	82	IP	56
TEMP =	160	# OF STATOR SLOTS	48	INV.TYPE	PWM
CT HZ FROM	1.0	INVERTER-TEMP-CODE	180		
HTR-VOLTS		C HP FR	60		
		C HP TO	90		
HTR-AMPS					
HTR-WATTS					
		MAX. SPACE HEATER TEMP.			
		VT HZ FROM	0		
		VT HZ TO	60		

Parts List		
Part Number	Description	Quantity
SA304165	SA 10G187Z438	1.000 EA
RA291325	RA 10G187Z438	1.000 EA
09FN3001D02	EXTERNAL FAN, PLASTIC	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
10CB1000A09P	CONDUIT BOX, MACH W/EPOXY PRIMER	1.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT .591 OD, .319 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
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
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HA4017A02	.125X2.50 GREASER EXTENS.F/S	1.000 EA
HA4017A10	1/8X1.25 GREASE EXT (F/S)	1.000 EA
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 EA
HW4601A53	INPRO/SEAL VBXX FOR 311 BEARING/310 FRAM	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
10EP1110A01P	MACH'D EPOXY PRIMED EP	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
HW4601A53	INPRO/SEAL VBXX FOR 311 BEARING/310 FRAM	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	3.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT .591 OD, .319 I	3.000 EA
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 EA
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
MJ5004A59	ADHESIVE LOCTITE #401 SURFACE INSENSITIV	0.010 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
MJ5001A14	DYNAPRO SEAL, CP MOTORS VC#2508050 (603	0.026 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
WD1000B49	T&B C73,RING TERMINAL 10-12 AWG 3/8 STUD	3.000 EA
10EP1110A02GP6	FR ENDPLATE, MACH W/PRIMER & PAINT	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4002A01	DRAIN PLUG STAINLESS STL	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.130 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4002A01	DRAIN PLUG STAINLESS STL	1.000 EA

Product Information Packet: ECP84104T-4 - 30HP,1770RPM,3PH,60HZ,286T,1060M,TEFC,F1

HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
10FH1007A24GP6	FAN COVER W/1.00 SLOT @ 6:00	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 QT
MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN	0.070 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
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 53757 - Typical performance - not guaranteed values

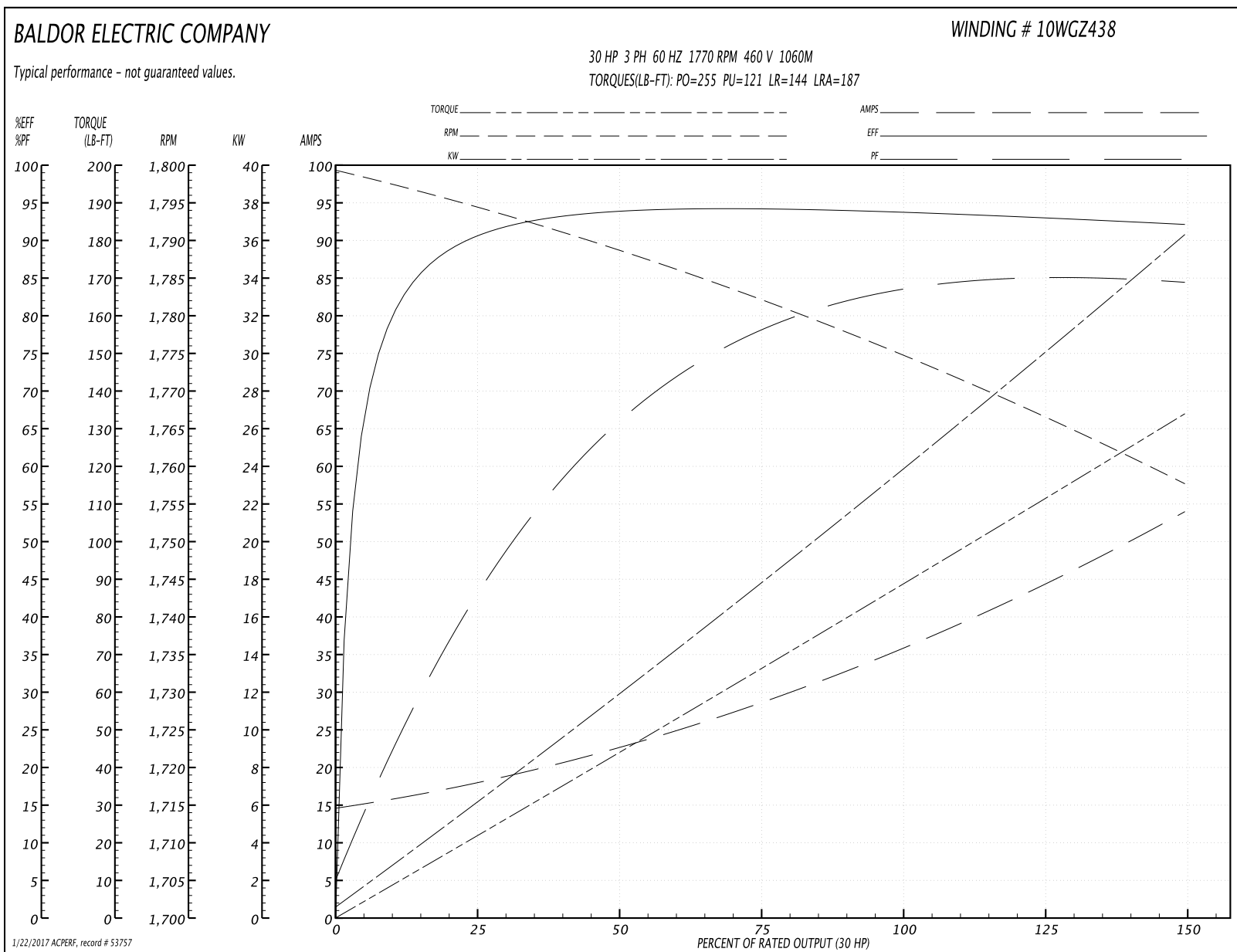
Winding: 10WGZ438-R001	Type: 1060M	Enclosure: TEFC
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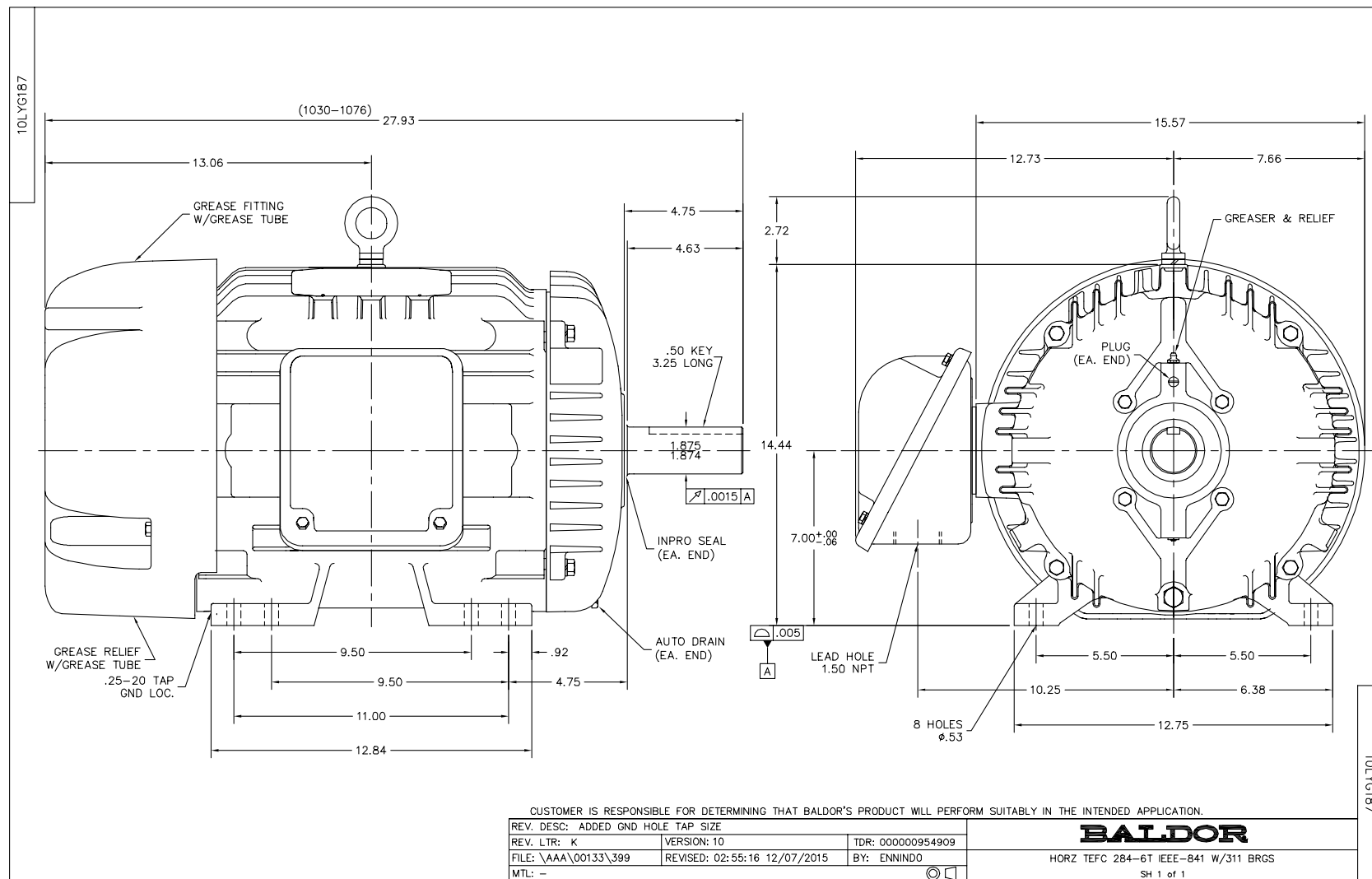
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	30			Full Load Torque	89.4 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	37			Breakdown Torque	255 LB-FT
R.P.M.	1770			Pull-up Torque	121 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	144 LB-FT
NEMA Design Code	B	KVA Code	E	Starting Current	187 A
Service Factor (S.F.)	1.15			No-load Current	15.2 A
NEMA Nom. Eff.	93.6	Power Factor	82	Line-line Res. @ 25°C	0.23705 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	62°C
S.F. Amps				Temp. Rise @ S.F. Load	76°C
				Locked-rotor Power Factor	30.5

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	78	82	84	85	83
Efficiency	90.5	93.6	94.1	93.8	93.2	92.3	93.4
Speed	1795.2	1788.7	1781.6	1774.4	1766.2	1757.9	1769
Line amperes	17.3	22.2	29.1	36.6	44.8	53.6	41.5

Performance Graph at 460V, 60Hz, 30.0HP 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

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

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A MEMBER OF THE ABB GROUP