



Product Information Packet

ECP83586T-4

2HP,3490RPM,3PH,60HZ,145T,0526M,TEFC,F1

Part Detail							
Revision:	V	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	05WGX123	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	05E811	Layout:	05LYE811	Poles:	02	Created Date:	07-05-2016
Base:	RG	Eff. Date:	07-01-2022	Leads:	3#18 15" LEAD LENGTH,0#0 Dbl Dip & Bake,0#0 Phase InsulaY		

Specs			
Catalog Number:	ECP83586T-4	Inverter Code:	Inverter Duty
Enclosure:	TEFC	KVA Code:	M
Frame:	145T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Iron	Locked Bearing Indicator:	Locked Bearing
Motor Letter Type:	Three Phase	Motor Lead Quantity/Wire Size:	@ 0 AWG
Output @ Frequency:	2.000 HP @ 60 HZ		3 @ 18 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	CLI GP A,B,C,D	Motor Type:	0526M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	88
	CSA EEV	Product Family:	Chem Process S/P 32-8 IEEE 841
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Constant Torque Speed Range:	6	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	2.500 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	Shaft Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Enclosure Modification:	841	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None
Insulation Class:	F	XP Temp Code:	T4

Nameplate NP4328E

CAT.NO.	ECP83586T-4			
SPEC.	05E811X123G1			
HP	2	TE	IP	56
VOLTS	460			
AMPS	2.44			
R.P.M.	3490			
FRAME	145T	HZ	60	
SER.F.	1.15	CODE	L	DES. B
RATING	40C AMB-CONT			
SN				
DE	6205	ODE	6205	
NEMA NOM. EFF.	85.5	P.F.	88	
GUAR. MIN. EFF.	82.5	CC	010A	
T. CODE	T4	TEMP=	135	

PH 3

CLASS F

Nameplate NP3186E

SPEC.	05E811X123G1		
ABMA DE BRG	25BC02X30X		
ABMA ODE BRG	25BC02X30X		
GREASE	POLYREX EM		
MOTOR WEIGHT	78	ROTOR BARS	20
MAX. R.P.M.	5400	MAX. KVAR	0.1
STATOR BARS	24		
INV.TYPE	PWM		
T=	135		
CHP	60	TO	90
CT	1.8	TO	60
VT	0-	TO	60
HTR-VOLTS	N/A	HTR-AMPS	N/A
HTR-WATTS	N/A	MAX. SPACE HEATER TEMP.	N/A

AC Induction Motor Performance Data

Record # 92393

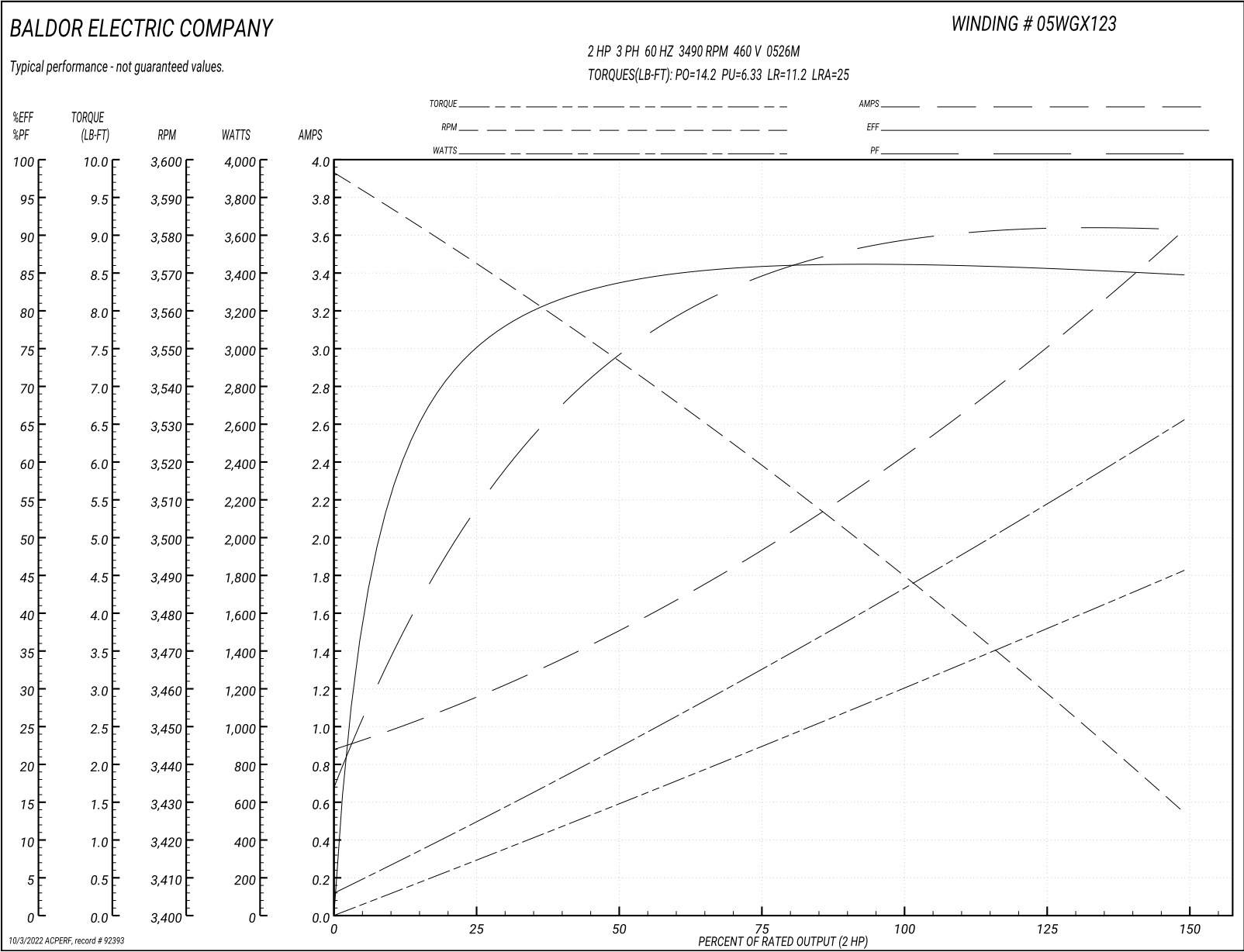
Typical performance - not guaranteed values

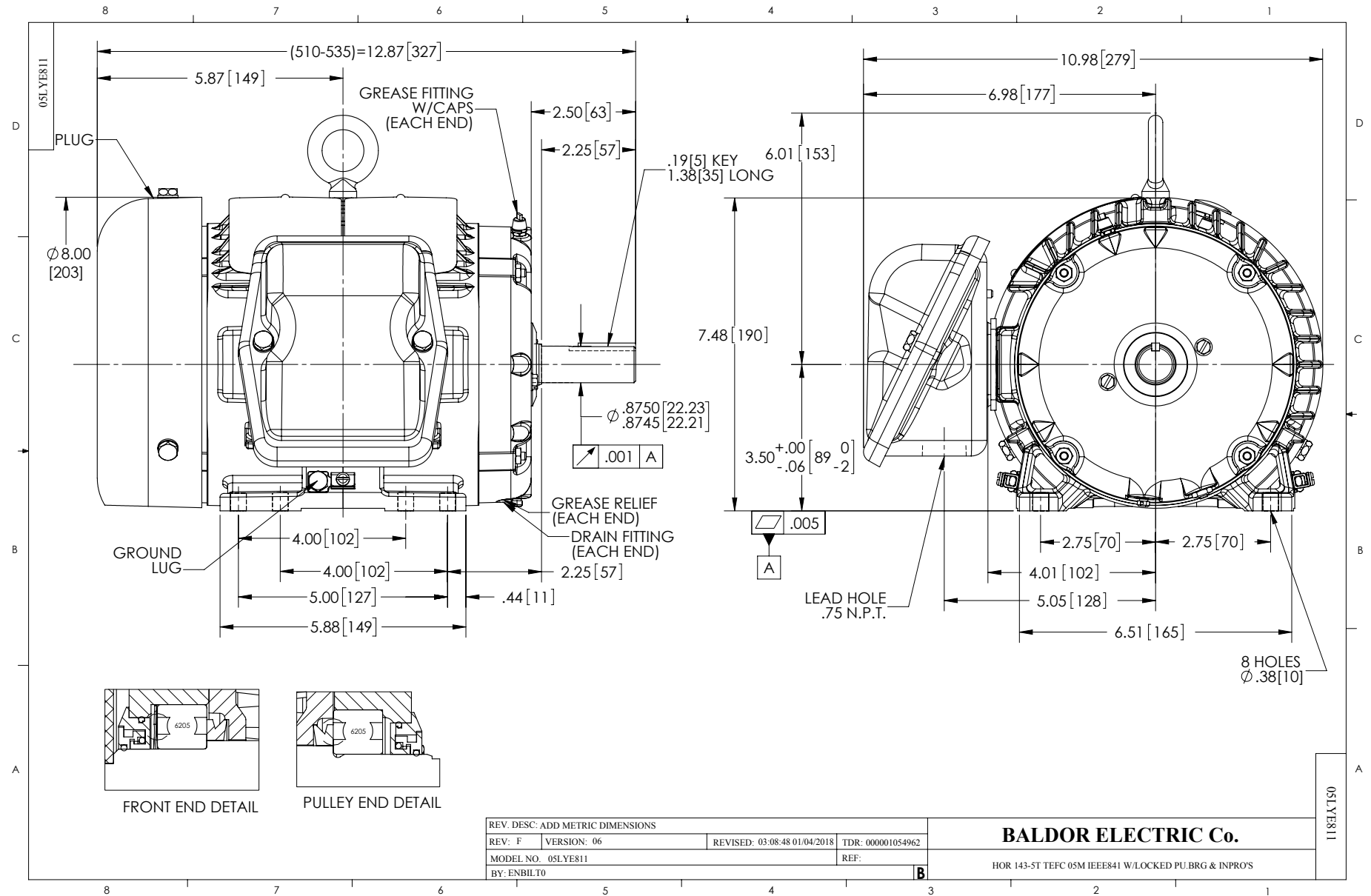
Winding: 05WGX123-R004				Type: 0526M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		2		Full Load Torque		2.98 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		2.5		Breakdown Torque		14.2 LB-FT	
R.P.M.		3490		Pull-up Torque		6.33 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		M	
Service Factor (S.F.)		1.15		No-load Current		0.912 A	
NEMA Nom. Eff.		85.5		Power Factor		88	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	75	84	88	90	91	89
Efficiency	73.4	83.6	85.8	85.5	85.8	84.7	86
Speed	3572	3547	3520	3492	3461	3426	3473
Line amperes	1.1	1.47	1.93	2.44	3	3.61	2.78

Performance Graph at 460V, 60Hz, 2.0HP 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.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -

BALDOR - RELIANCE®

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

SH 1 of 1

Page 9 of 8