



Product Information Packet

ECP83587T-4

2HP,1755RPM,3PH,60HZ,145T,0532M,TEFC,F1

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	05WGX498	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	05E811	Layout:	05LYE811	Poles:	04	Created Date:	10-03-2018
Base:	RG	Eff. Date:	08-25-2022	Leads:	3#18		

Specs			
Catalog Number:	ECP83587T-4	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	145T	KVA Code:	L
Frame Material:	Iron	Lifting Lugs:	No Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	2.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 18 AWG
Synchronous Speed @ Frequency:	1800 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:	0532M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	75
	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:	1.5	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	2.800 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
		XP Temp Code:	T4

Nameplate NP4328E

CAT.NO.	ECP83587T-4			
SPEC.	05E811X498G1			
HP	2	TE	IP	56
VOLTS	460			
AMPS	2.74			
R.P.M.	1760			
FRAME	145T	HZ	60	
SER.F.	1.15	CODE	J	DES. B
RATING	40C AMB-CONT			
SN				
DE	6205	ODE	6205	
NEMA NOM. EFF.	86.5	P.F.	79	
GUAR. MIN. EFF.	84	CC	010A	
T. CODE	T4	TEMP=	135	

PH 3

CLASS F

Nameplate NP3186E

SPEC.	05E811X498G1		
ABMA DE BRG	25BC02X30X		
ABMA ODE BRG	25BC02X30X		
GREASE	POLYREX EM		
MOTOR WEIGHT	78	ROTOR BARS	28
MAX. R.P.M.	2700	MAX. KVAR	.50
STATOR BARS	36		
INV.TYPE	PWM		
T=	135		
CHP	60	TO	90
CT	1.3	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 # 84197

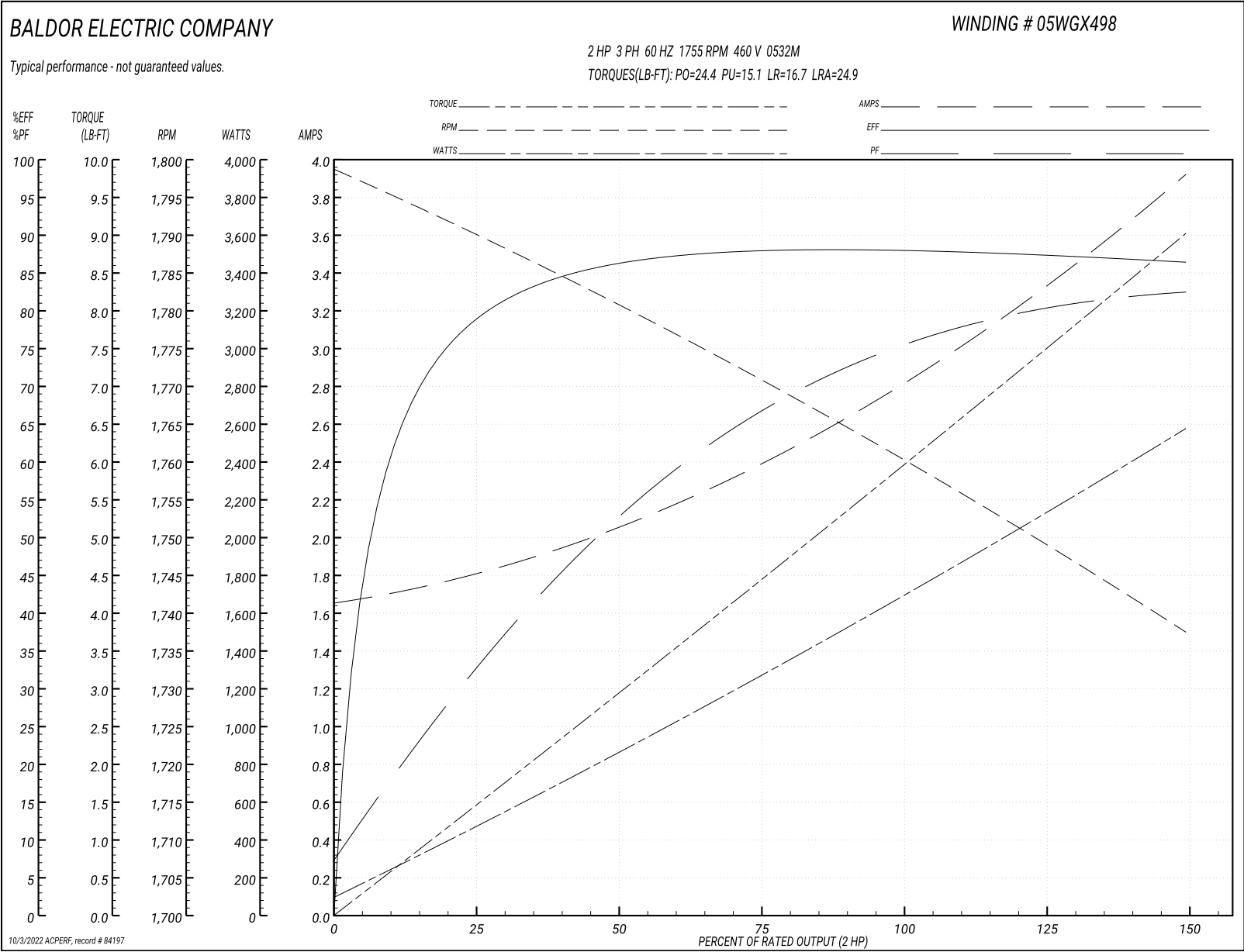
Typical performance - not guaranteed values

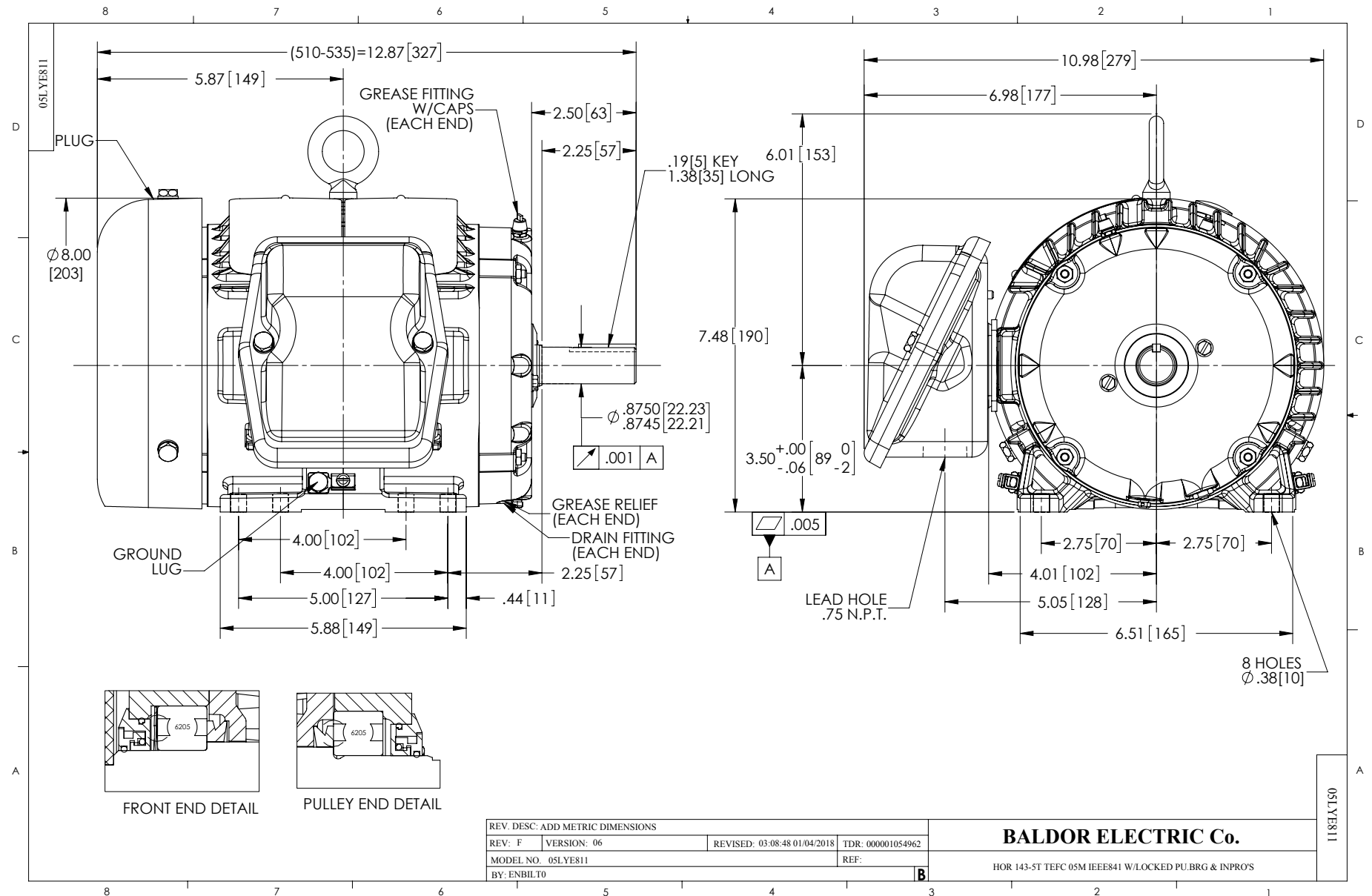
Winding: 05WGX498-R001				Type: 0532M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		2		Full Load Torque		5.999 LB-FT		
Volts		460		Start Configuration		direct on line		
Full Load Amps		2.8		Breakdown Torque		24.4 LB-FT		
R.P.M.		1755		Pull-up Torque		15.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		16.7 LB-FT		
NEMA Design Code		B		KVA Code	L		Starting Current	24.9 A
Service Factor (S.F.)		1.15		No-load Current		1.68 A		
NEMA Nom. Eff.		86.5		Power Factor	75		Line-line Res. @ 25°C	7.4897 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		35°C
S.F. Amps						Temp. Rise @ S.F. Load		42°C
						Locked-rotor Power Factor		49.3

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	54	67	75	80	83	78
Efficiency	78.8	86.1	87.9	88.1	87.4	86.3	87.7
Speed	1789.6	1780.5	1770.9	1760.1	1749.1	1737.3	1754
Line amperes	1.78	2.04	2.4	2.85	3.36	3.9	3.16

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values





CD0006

TYPICAL WYE-CONNECTED MOTOR

1-BLU

3-ORG

2-WHT

OPTIONAL THERMOSTATS

J-BRN

J-BRN

TYPICAL DELTA-CONNECTED MOTOR

1-BLU

2-WHT

3-ORG

OPTIONAL THERMOSTATS

J-BRN

J-BRN

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			BALDOR - RELIANCE® 3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED SH 1 of 1
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO	
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