



Product Information Packet

ECP83774T-4

10HP,1760RPM,3PH,60HZ,215T,0748M,TEFC,F1

Part Detail							
Revision:	AR	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	07WGX813	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	07K629	Layout:	07LYK629	Poles:	04	Created Date:	08-09-2006
Base:	RG	Eff. Date:	08-29-2022	Leads:	3#14		

Specs			
Catalog Number:	ECP83774T-4	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	215T	Inverter Code:	Inverter Duty
Frame Material:	Iron	KVA Code:	H
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	10.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 14 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	CLI GP A,B,C,D	Motor Lead Termination:	Flying Leads
XP Division:	Division II	Motor Type:	0748M
Agency Approvals:	CCSA US	Mounting Arrangement:	F1
	CSA	Power Factor:	81
	CSA EEV	Product Family:	Chem Process S/P 32-8 IEEE 841
	NEMA PREMIUM	Pulley End Bearing Type:	Ball
	NEMA_PREMIUM	Pulley Face Code:	Standard
	UR	Pulley Shaft Indicator:	Standard
Auxillary Box:	No Auxillary Box	Rodent Screen:	None
Auxillary Box Lead Termination:	None	RoHS Status:	ROHS COMPLIANT

Base Indicator:	Rigid	Shaft Extension Location:	Pulley End
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Ground Indicator:	No Shaft Grounding
Blower:	None	Shaft Rotation:	Reversible
Constant Torque Speed Range:	1.3	Shaft Slinger Indicator:	Shaft Slinger
Current @ Voltage:	12.500 A @ 460.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Enclosure Modification:	841	Vibration Sensor Indicator:	No Vibration Sensor
Feedback Device:	NO FEEDBACK	Winding Thermal 1:	None
Front Face Code:	Standard	Winding Thermal 2:	None
Front Shaft Indicator:	None	XP Temp Code:	T3C

Nameplate NP4328E

CAT.NO.	ECP83774T-4				
SPEC.	07K629X813				
HP	10	TE		IP	56
VOLTS	460				
AMPS	12.5				
R.P.M.	1765				
FRAME	215T		HZ	60	
SER.F.	1.15		CODE	H	DES. B
RATING	40C AMB-CONT				
SN					
DE	6307		ODE	6307	
NEMA NOM. EFF.	91.7		P.F.	81	
GUAR. MIN. EFF.	90.2		CC	010A	
T. CODE	T3C		TEMP=	160	

PH 3

CLASS F

Nameplate NP3186E

SPEC.	07K629X813		
ABMA DE BRG	35BC03X30X		
ABMA ODE BRG	35BC03X30X		
GREASE	POLYREX EM		
MOTOR WEIGHT	231	ROTOR BARS	28
MAX. R.P.M.	2700	MAX. KVAR	1.95
STATOR BARS	36		
INV.TYPE	PWM		
T=	160		
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 # 92588

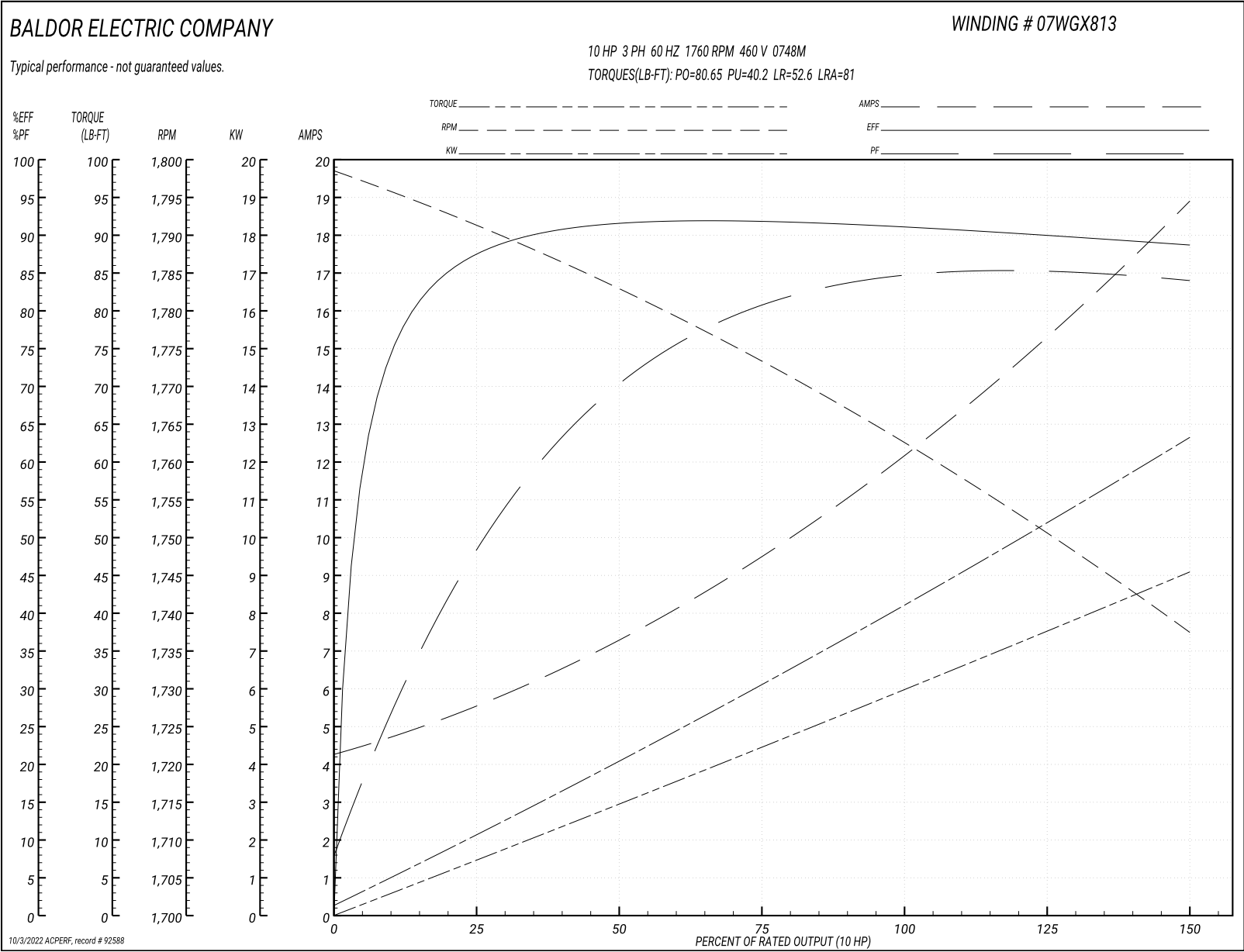
Typical performance - not guaranteed values

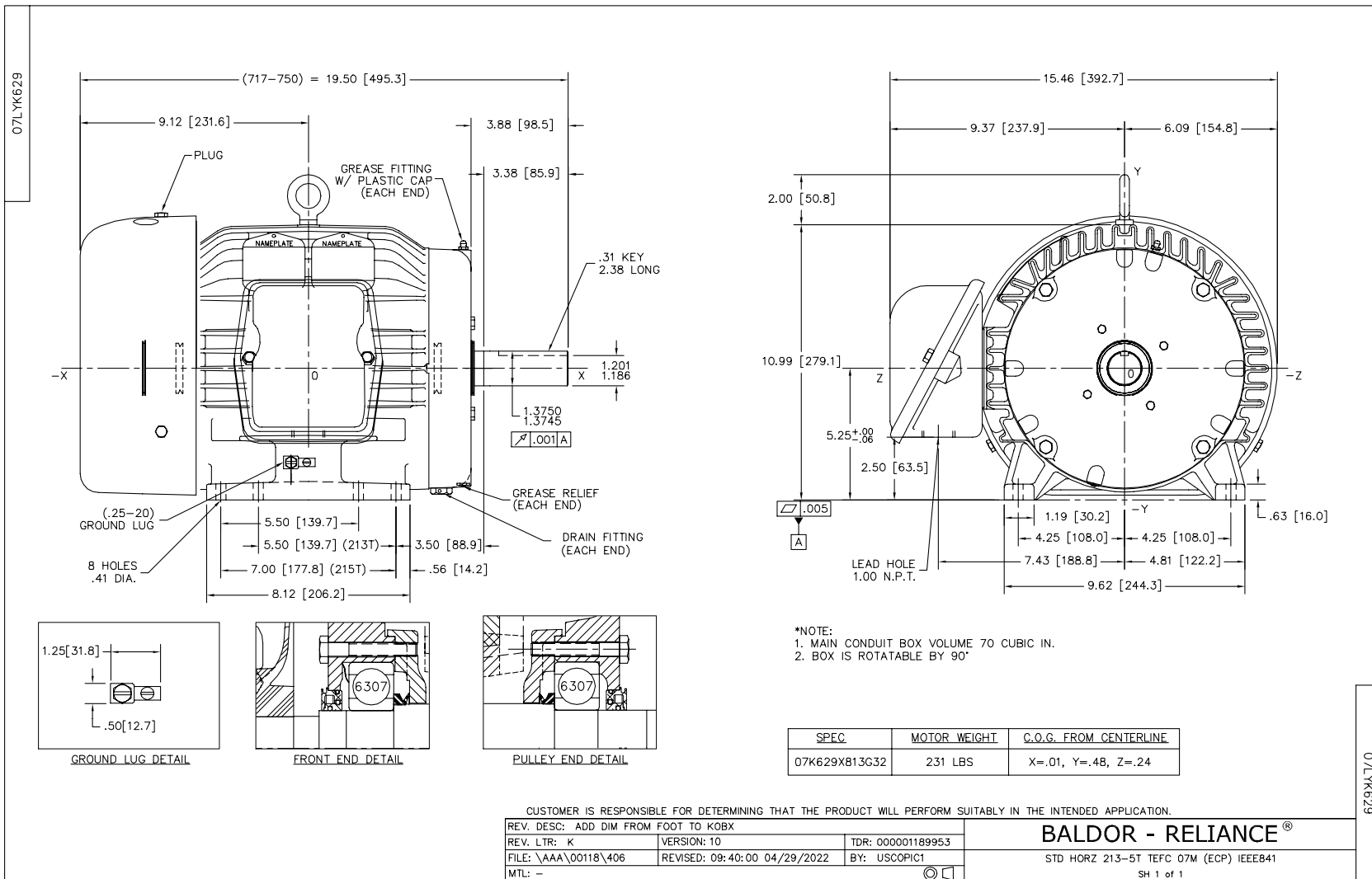
Winding: 07WGX813-R059			Type: 0748M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10	Full Load Torque		29.85 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		12.2	Breakdown Torque		80.65 LB-FT		
R.P.M.		1760	Pull-up Torque		40.2 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		52.6 LB-FT		
NEMA Design Code		B	KVA Code		H	Starting Current	81 A
Service Factor (S.F.)		1.15	No-load Current		4.45 A		
NEMA Nom. Eff.		91.7	Power Factor		83	Line-line Res. @ 25°C	1.08 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		65°C	
S.F. Amps				Temp. Rise @ S.F. Load		81°C	
				Locked-rotor Power Factor		35.1	
				Rotor inertia		1.18 lb-ft²	

Load Characteristics 460 V, 60 Hz, 10 HP

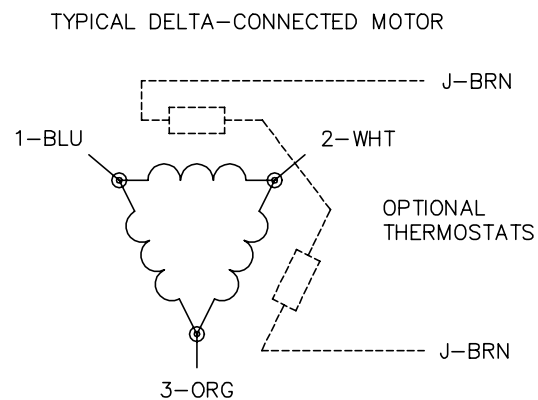
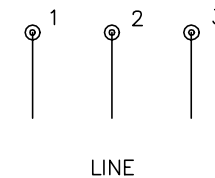
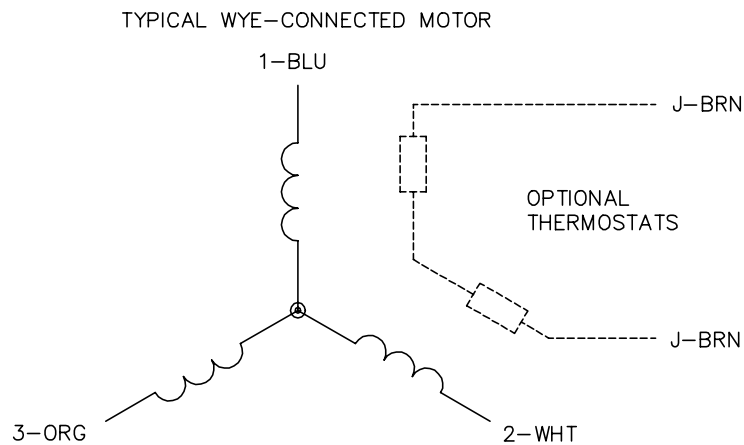
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	72	80	83	85	85	84
Efficiency	87.3	90.8	91.7	91.7	90.2	88.5	91
Speed	1791	1782	1774	1763	1751	1737	1756
Line amperes	5.29	7.18	9.54	12.29	15.36	18.81	14

Performance Graph at 460V, 60Hz, 10.0HP 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.

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