



Product Information Packet

ECP83665T-4

5HP,1750RPM,3PH,60HZ,184T,0641M,TEFC,F1

Part Detail							
Revision:	AE	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	06WGX203	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	06H759	Layout:	06LYH759	Poles:	04	Created Date:	04-04-2012
Base:	RG	Eff. Date:	08-15-2022	Leads:	3#16		

Specs			
Catalog Number:	ECP83665T-4	Inverter Code:	Inverter Duty
Enclosure:	TEFC	KVA Code:	J
Frame:	184T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Iron	Locked Bearing Indicator:	Locked Bearing
Motor Letter Type:	Three Phase	Motor Lead Quantity/Wire Size:	3 @ 16 AWG
Output @ Frequency:	5.000 HP @ 60 HZ	Motor Lead Exit:	Ko Box
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Termination:	Ring Terminals
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Type:	0642M
XP Class and Group:	CLI GP A,B,C,D	Mounting Arrangement:	F1
XP Division:	Division II	Power Factor:	79
Agency Approvals:	CSA	Product Family:	Chem Process S/P 32-8 IEEE 841
	CSA EEV	Pulley End Bearing Type:	Ball
	UR	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Pulley Shaft Indicator:	Standard
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	Rigid	RoHS Status:	ROHS COMPLIANT
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

Constant Torque Speed Range:	1.7	Shaft Rotation:	Reversible
Current @ Voltage:	6.600 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	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:	T3C

Nameplate NP4328E

CAT.NO.	ECP83665T-4			
SPEC.	06H759X203G2			
HP	5	TE	IP	56
VOLTS	460			
AMPS	6.45			
R.P.M.	1750			
FRAME	184T	HZ	60	
SER.F.	1.15	CODE	J	DES. B
RATING	40C AMB-CONT			
SN				
DE	6206	ODE	6206	
NEMA NOM. EFF.	89.5	P.F.	81	
GUAR. MIN. EFF.	87.5	CC	010A	
T. CODE	T3C	TEMP=	160	

PH 3

CLASS F

Nameplate NP3186E

SPEC.	06H759X203G2		
ABMA DE BRG	30BC02X30X		
ABMA ODE BRG	30BC02X30X		
GREASE	POLYREX EM		
MOTOR WEIGHT	127	ROTOR BARS	28
MAX. R.P.M.	2700	MAX. KVAR	1
		STATOR BARS	36
INV.TYPE	PWM		
T=	160		
CHP	60	TO	90
CT	1.7	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 # 92406

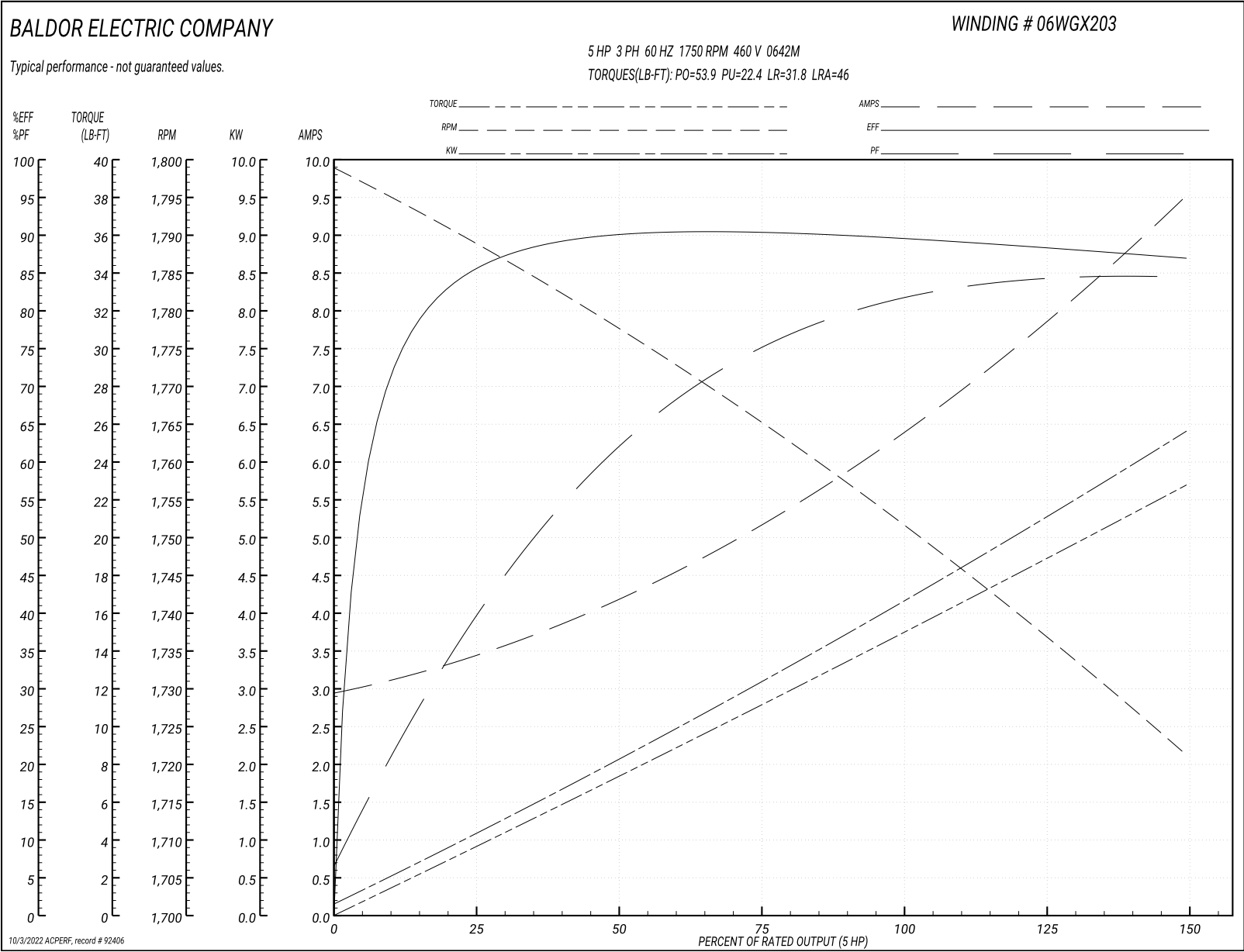
Typical performance - not guaranteed values

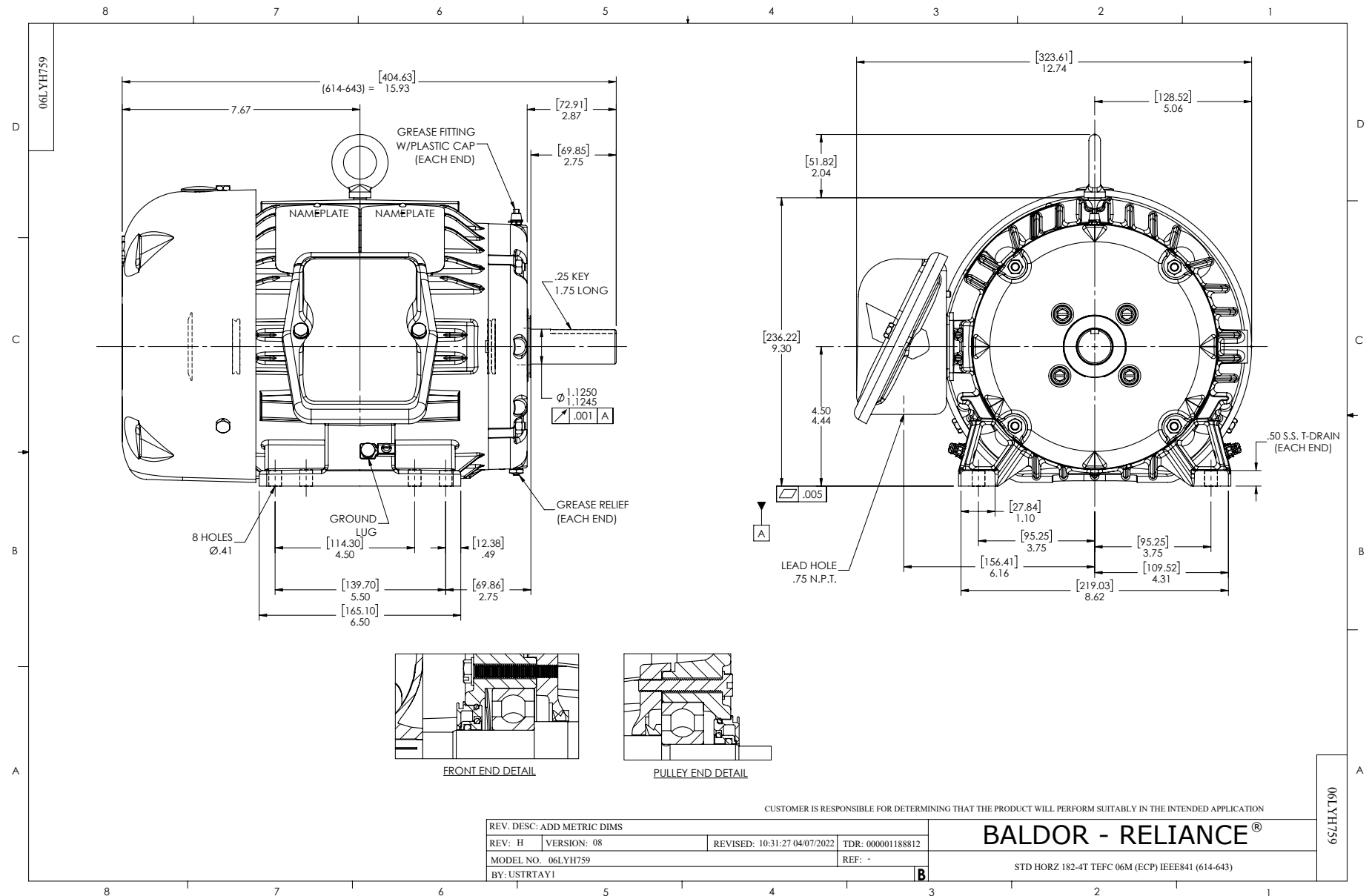
Winding: 06WGX203-R061			Type: 0642M	Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		15 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		6.6	Breakdown Torque		53.9 LB-FT		
R.P.M.		1750	Pull-up Torque		22.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		31.8 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		46 A
Service Factor (S.F.)		1.15	No-load Current		3.02 A		
NEMA Nom. Eff.		89.5	Power Factor	79	Line-line Res. @ 25°C		2.63 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		53°C
S.F. Amps			Temp. Rise @ S.F. Load		65°C		
			Locked-rotor Power Factor		40.5		
			Rotor inertia		0.391 lb-ft²		

Load Characteristics 460 V, 60 Hz, 5 HP

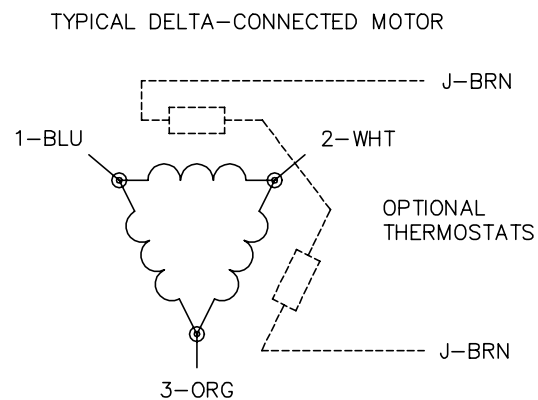
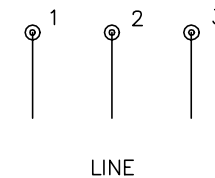
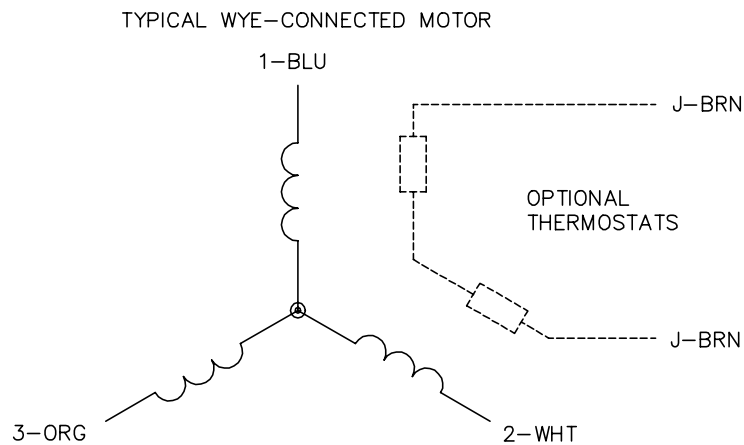
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	63	75	81	84	85	81
Efficiency	85.2	89.8	90.4	89.5	88.4	86.9	88.7
Speed	1789	1777	1765	1752	1737	1721	1739
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47	7.52

Performance Graph at 460V, 60Hz, 5.0HP 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

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