



Product Information Packet

ECP84103T-4

25HP,1770RPM,3PH,60HZ,284T,TEFC,F1

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGZ580	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:		Layout:	10LYH231	Poles:	04	Created Date:	12-06-2018
Base:		Eff. Date:	07-18-2022	Leads:	3#10		

Specs			
Catalog Number:	ECP84103T-4	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	284T	IP Rating:	IP56
Frame Material:	Iron	KVA Code:	F
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	25.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 10 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:	Ring Terminals
XP Division:	Division II	Motor Type:	1056M
Agency Approvals:	CCSA US	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	85
	UR	Product Family:	Chem Process S/P 32-8 IEEE 841
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Constant Torque Speed Range:	1	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	30.000 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No 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:	T3C

Nameplate NP3190

STK.NO.	ECP84103T-4	P/N		ENCLOSURE	TEFC				
SPEC.	10-0000-0396	CC	010A	FRAME	284T	S/N			
HP	25	CLASS	F	HZ	60	ODE BRG	6311	DE BRG	6311
RPM	1770	RPM MAX	2700	PH	3	DES	B	D.E. BRG.	55BC03X30X
VOLT	460	KVA-CODE	F	MOTOR WEIGHT	468	O.D.E. BRG.	55BC03X30X	GREASE	POLYREX EM
AMP	30	MAX. KVAR	5.9	BLANK		IP	56	INV.TYPE	PWM
RATING	40C AMB-CONT	# OF ROTOR BARS	40	SER.F.	1.15				
NEMA-NOM-EFF	93.6	# OF STATOR SLOTS	48	PF	85				
G.MIN.EFF	92.4	INVERTER-TEMP-CODE	180						
TEMP CODE	T3C	C HP FR	60	C HP TO	90				
TEMP =	160	CT HZ FROM	1	CT HZ TO	60				
CT HZ FROM	1	HTR-VOLTS		HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.	
HTR-VOLTS								VT HZ FROM	0
								VT HZ TO	60

AC Induction Motor Performance Data

Record # 61560

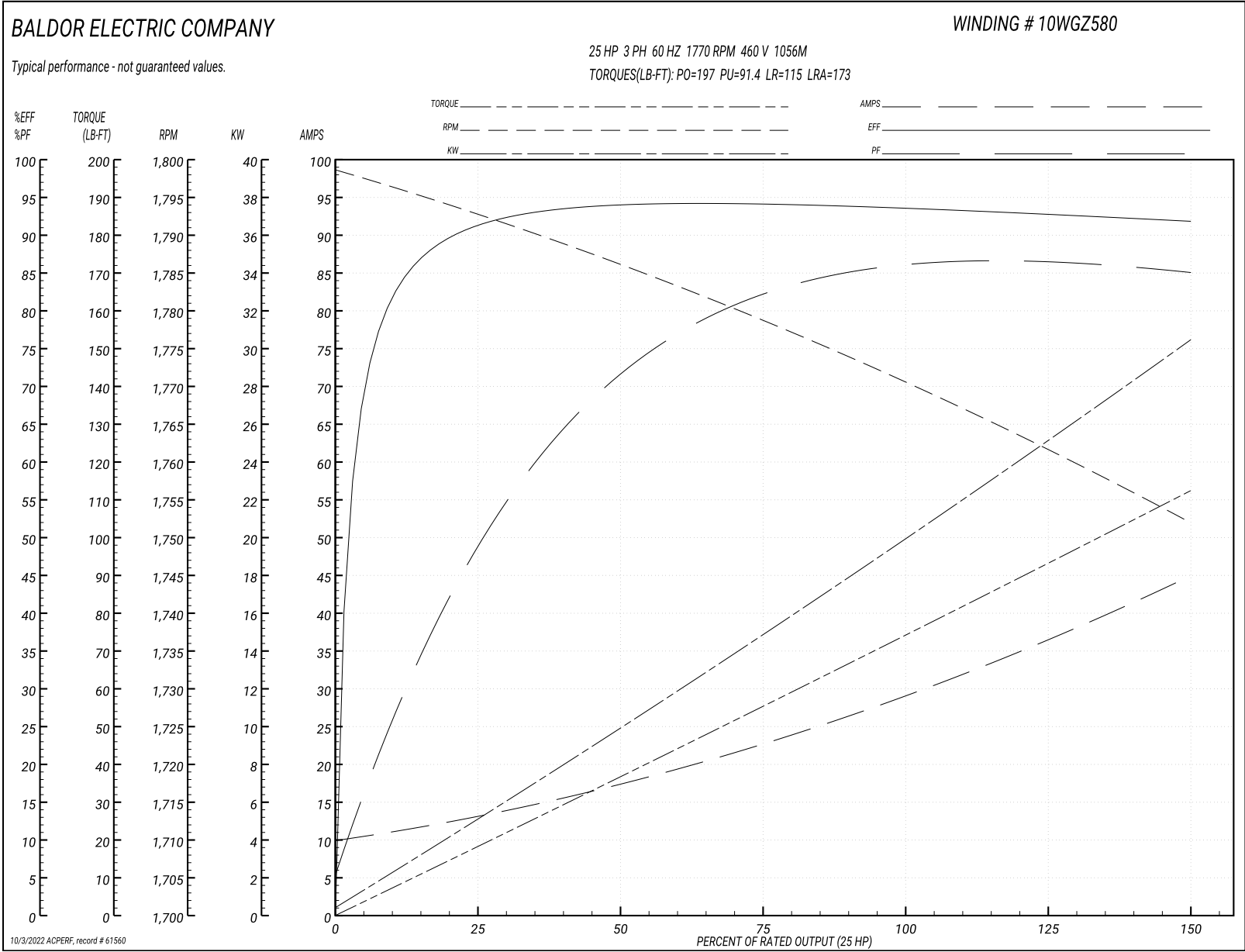
Typical performance - not guaranteed values

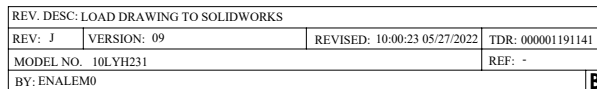
Winding: 10WGZ580-R001			Type: 1056M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		25	Full Load Torque		74.31 LB-FT
Volts		460	Start Configuration		direct on line
Full Load Amps		30	Breakdown Torque		197 LB-FT
R.P.M.		1770	Pull-up Torque		91.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	115 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	173 A
Service Factor (S.F.)		1.15	No-load Current		10.4 A
NEMA Nom. Eff.	93.6	Power Factor	85	Line-line Res. @ 25°C	0.29877 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		54°C
S.F. Amps			Temp. Rise @ S.F. Load		67°C
			Locked-rotor Power Factor		30.3
			Rotor inertia		4.46 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	81	85	86	86	86
Efficiency	91	93.8	94.1	93.7	92.9	91.8	93.2
Speed	1792.8	1785.5	1778.9	1770.7	1762.4	1751.5	1766
Line amperes	12.5	17	22.9	29.5	36.5	44.7	33.7

Performance Graph at 460V, 60Hz, 25.0HP 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.

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

CD0006

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