



Product Information Packet

ECP82334T-4

20HP,1760RPM,3PH,60HZ,256T,TEFC,F1

Part Detail							
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGT417	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:		Layout:	09LYJ287	Poles:	04	Created Date:	11-27-2018
Base:		Eff. Date:	07-01-2022	Leads:	3#12		

Specs			
Catalog Number:	ECP82334T-4	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	256T	IP Rating:	IP56
Frame Material:	Iron	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	20.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 12 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:	0964M
Agency Approvals:	CCSA US	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	87
	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:	1.3	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	23.000 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 NP4332

STK.NO.	ECP82334T-4	P/N		ENCLOSURE	TEFC						
SPEC.	09-0000-0862	CC	010A	FRAME	256T	S/N					
HP	20	CLASS	F	HZ	60	ODE BRG	6309	DE BRG	6309		
RPM	1760	RPM MAX	2700	PH	3	DES	B	D.E. BRG.	45BC03X30X		
VOLT	460	KVA-CODE	G	O.D.E. BRG.	45BC03X30X	GREASE	POLYREX EM				
AMP	23	MOTOR WEIGHT	366	BLANK							
RATING	40C AMB-CONT	MAX. KVAR	3.6	IP	56						
NEMA-NOM-EFF	93	# OF ROTOR BARS	40	SER.F.	1.15	INV.TYPE	PWM				
G.MIN.EFF	91.7	# OF STATOR SLOTS	48	PF	87						
TEMP CODE	T3C	INVERTER-TEMP-CODE	180								
TEMP =	160	C HP FR	60	C HP TO	90						
CT HZ FROM	1.3	CT HZ TO	60								
HTR-VOLTS		HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.		VT HZ FROM	0-	VT HZ TO	60

AC Induction Motor Performance Data

Record # 72858

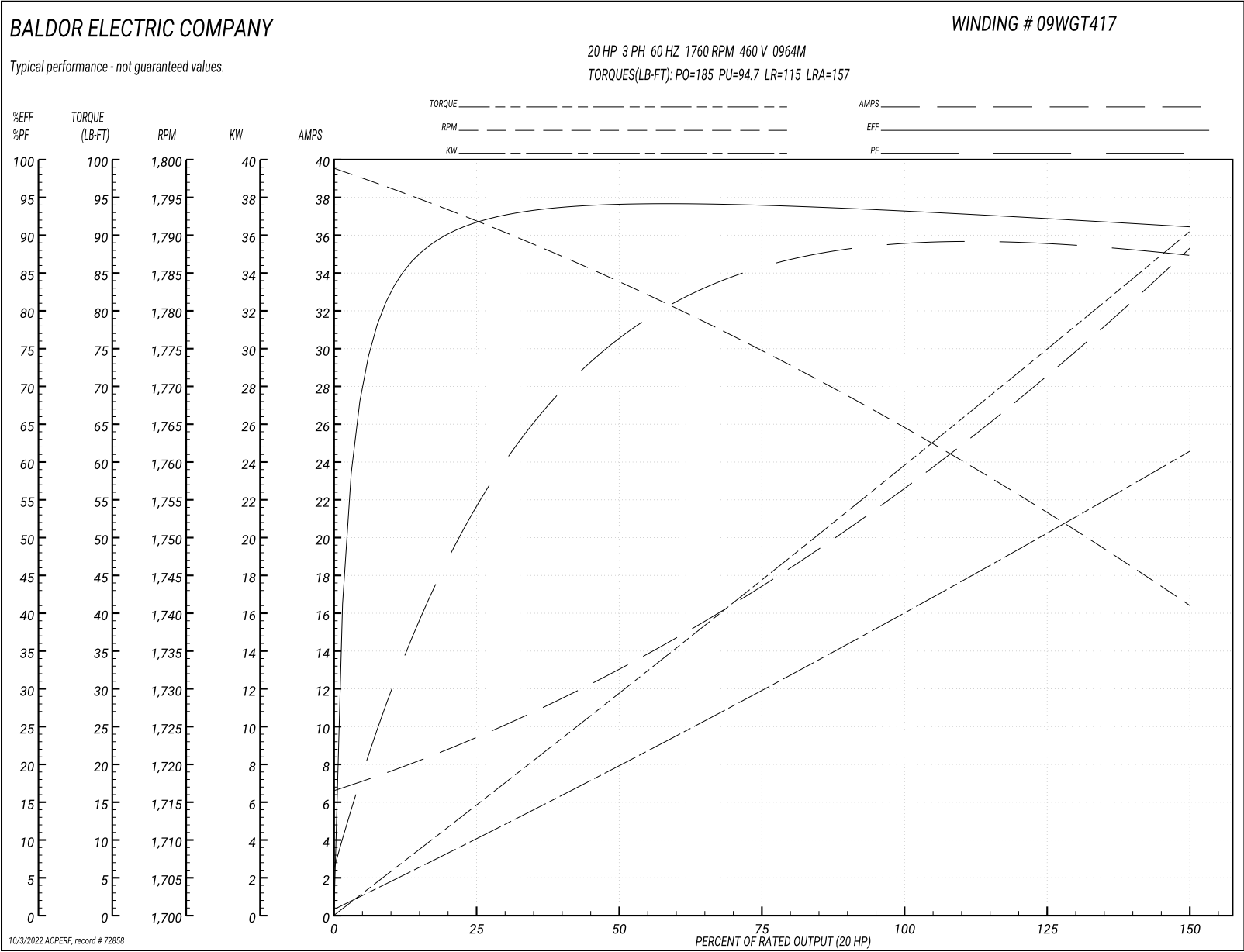
Typical performance - not guaranteed values

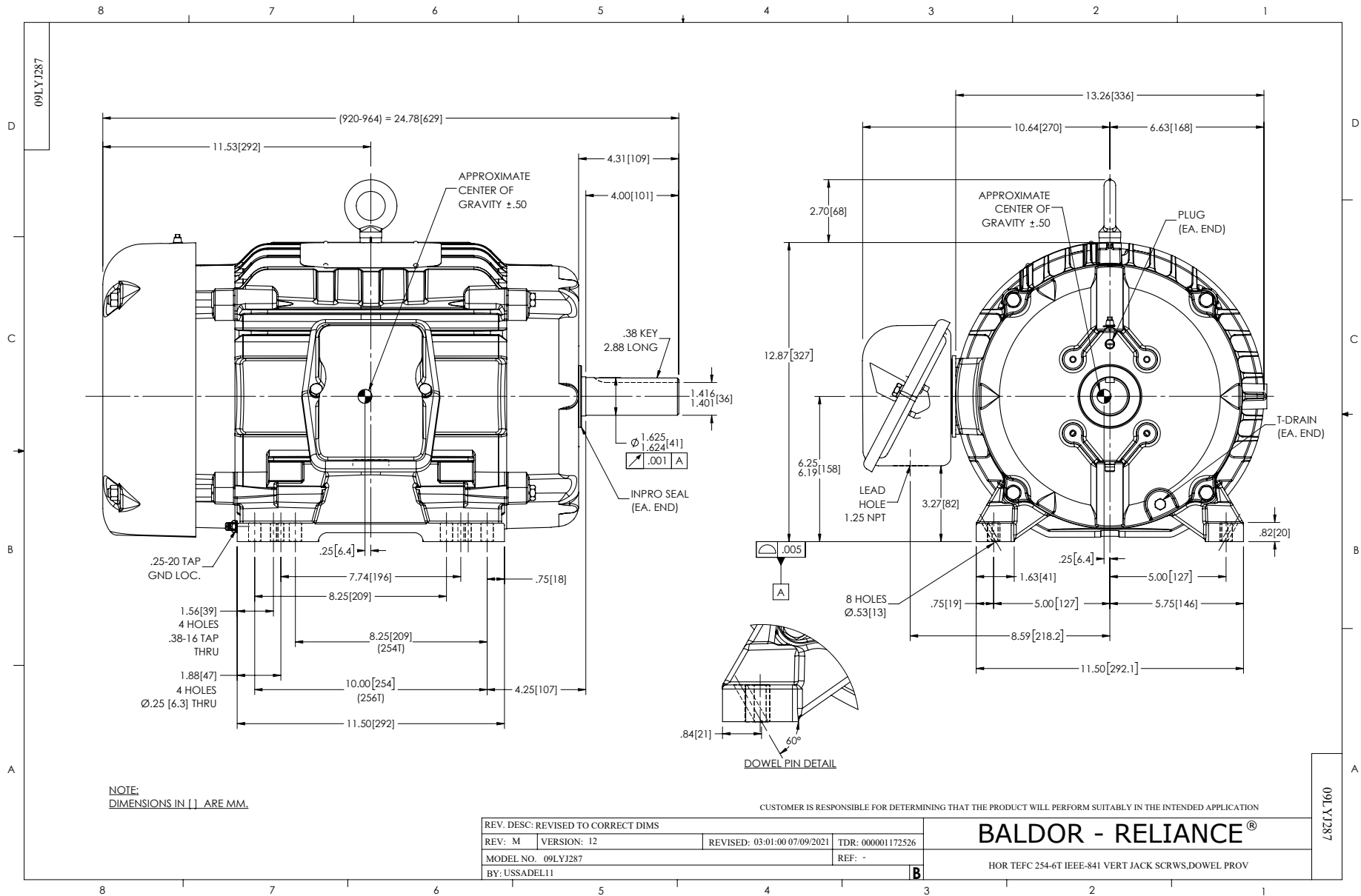
Winding: 09WGT417-R001				Type: 0964M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		20		Full Load Torque		59.51 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		23		Breakdown Torque		185 LB-FT	
R.P.M.		1760		Pull-up Torque		94.7 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		G	
Service Factor (S.F.)		1.15		Starting Current		157 A	
NEMA Nom. Eff.		93		Power Factor		87	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	78	85	88	88	88	88
Efficiency	91.4	93.8	93.9	93.3	92.3	91	92.7
Speed	1792.1	1783.4	1774.6	1764.6	1754	1740.6	1758
Line amperes	8.93	12.8	17.6	22.9	28.7	35.1	26.4

Performance Graph at 460V, 60Hz, 20.0HP 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

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