



Product Information Packet

ECP4106T-4

20HP,3540RPM,3PH,60HZ,256T,0944M,TEFC,F1

Part Detail							
Revision:	AS	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGY640	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	09J371	Layout:	09LYJ371	Poles:	02	Created Date:	08-29-2010
Base:	RG	Eff. Date:	04-05-2022	Leads:	3#10		

Specs			
Catalog Number:	ECP4106T-4	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	256T	KVA Code:	J
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	20.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 10 AWG
Synchronous Speed @ Frequency:	3600 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:	0944M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	89
	CSA EEV	Product Family:	Super-E Chemical Processing
	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)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

Constant Torque Speed Range:	6	Shaft Rotation:	Reversible
Current @ Voltage:	23.000 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	A	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
		XP Temp Code:	T3

Nameplate NP3995ABBL

CAT # ECP4106T-4

SER

CC 010A

SPEC 09J371Y640G1

RATING 40C AMB-CONT

HZ

VOLTS

AMPS

RPM

HP

CODE

SF

DES

PF

NEMA NOM. EFF

60

460

23

3540

20

J

1.15

A

89

%

92.4

%

PH 3

CL F

MAX RPM 5400

MAX CORR KVAR

USABLE AT 208V

IP55

FR 256T

ENCL TEFC

DE BRG 6309

ODE BRG 6309

GREASE POLYREX EM

MTR WT 328

LBS

USABLE AT 50HZ 15HP 380V 21A

CL I DIV 2 GRPS A,B,C,D

CL I ZONE 2 GRPS

IIA,IIB,IIC

TEMP T 200

C

1.0 SF ON PWM INVERTER

POWER

INV TEMP CL 200

C

CHP 60-90

HZ 1.5:1

CT 6-60

HZ 10:1

VT 3-60

HZ

20:1

SPACE HEATER LEADS H1-H2:

TIE LIKE NUMBERS

TOGETHER

V

A

W

MAX SPACE HEATER TEMP

AC Induction Motor Performance Data

Record # 47269

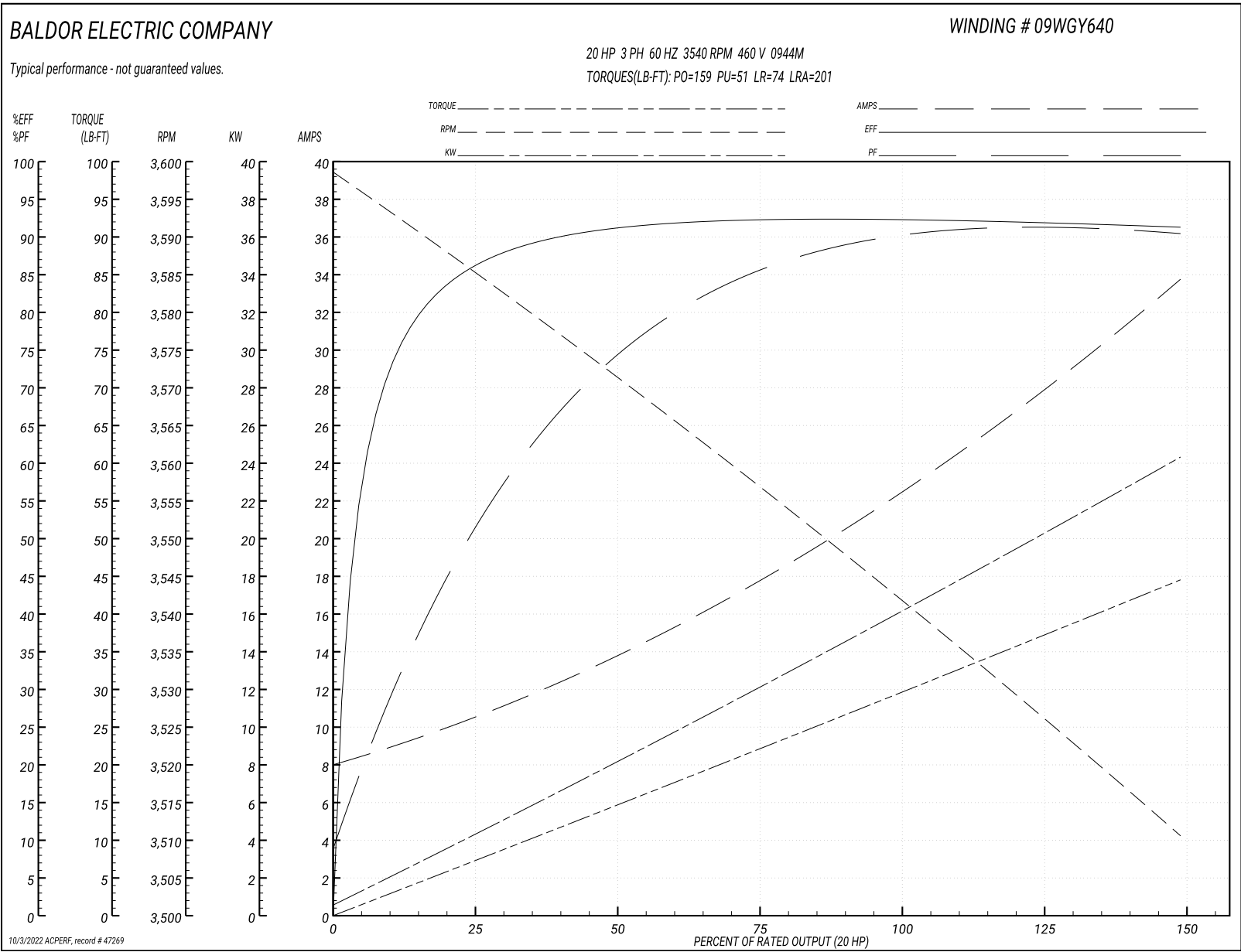
Typical performance - not guaranteed values

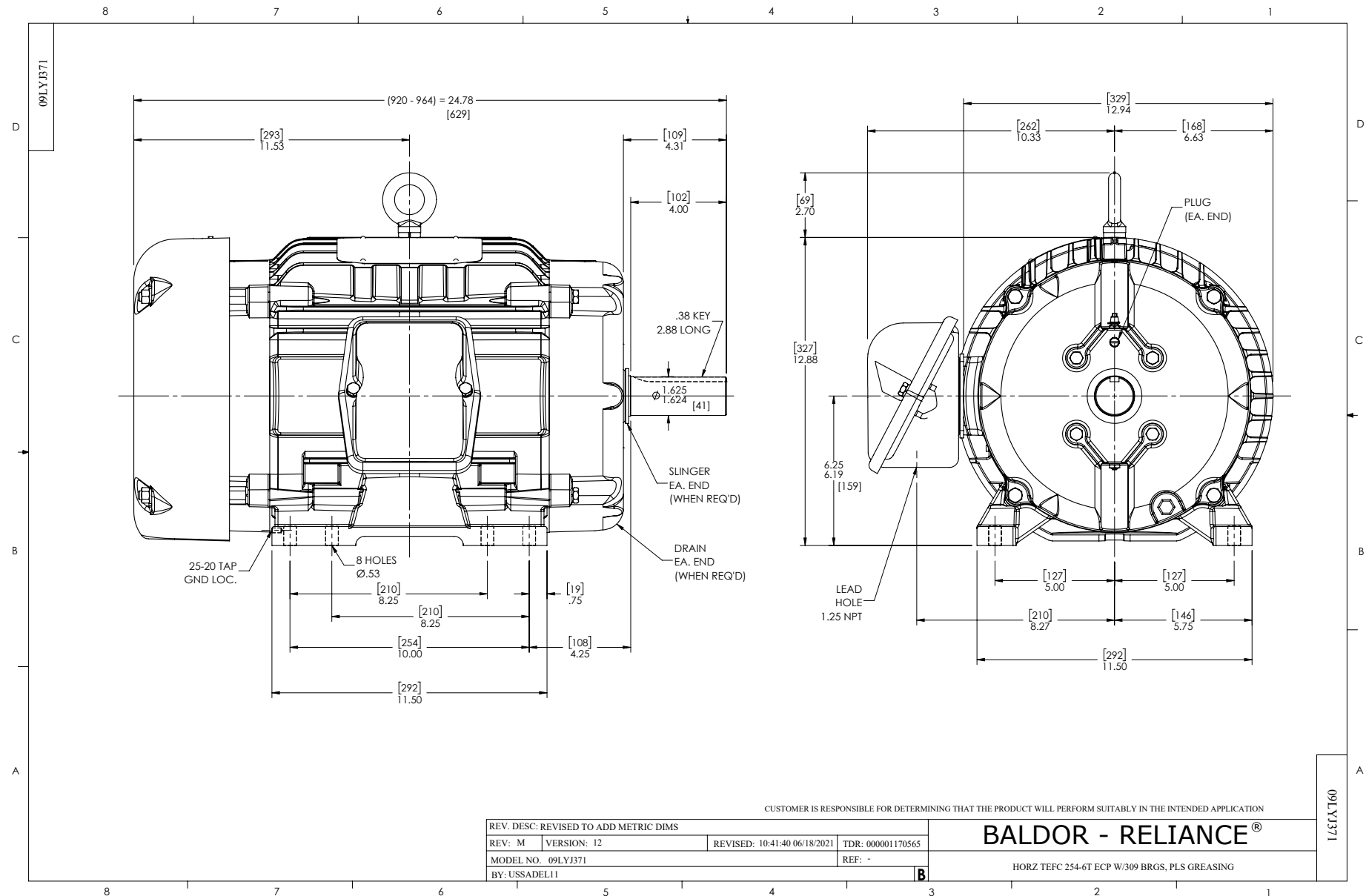
Winding: 09WGY640-R019			Type: 0944M	Enclosure: TEFC				
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		20	Full Load Torque		29.7 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		23	Breakdown Torque		159 LB-FT			
R.P.M.		3540	Pull-up Torque		51 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		74 LB-FT		
NEMA Design Code		A	KVA Code		J	Starting Current	201 A	
Service Factor (S.F.)		1.15		No-load Current		8.4 A		
NEMA Nom. Eff.		92.4	Power Factor		89	Line-line Res. @ 25°C		0.313 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		62°C		
S.F. Amps				Temp. Rise @ S.F. Load		75°C		
				Locked-rotor Power Factor		28		
				Rotor inertia		1.12 lb-ft²		

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	75	86	89	91	91	90
Efficiency	85.5	91.1	92.3	92.4	92	91.2	92.2
Speed	3585	3570	3557	3542	3527	3510	3533
Line amperes	10	13.8	17.8	22.9	28	33.5	26

Performance Graph at 460V, 60Hz, 20.0HP 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

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

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BY: ENBRIRO

MTL: -

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1

Page 8 of 8