



Product Information Packet

ECP4106T

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

Part Detail							
Revision:	AS	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGY799	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	09J371	Layout:	09LYJ371	Poles:	02	Created Date:	08-29-2010
Base:	RG	Eff. Date:	04-05-2022	Leads:	9#12		

Specs			
Catalog Number:	ECP4106T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	256T	Inverter Code:	Inverter Duty
Frame Material:	Iron	KVA Code:	J
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:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 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:	UR	Power Factor:	92
	CSA EEV	Product Family:	Super-E Chemical Processing
	CSA	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:	44.000 A @ 230.0 V	Shaft Slinger Indicator:	Shaft Slinger
	48.000 A @ 208.0 V	Speed Code:	Single Speed
	22.000 A @ 460.0 V	Motor Standards:	NEMA
Design Code:	A	Starting Method:	Direct on line
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	None
Duty Rating:	CONT	Thermal Device - Winding:	None
Electrically Isolated Bearing:	Not Electrically Isolated	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:	T3

Nameplate NP3995ABEL

CAT # ECP4106T

SER

CC 010A

SPEC 09J371Y799G1

RATING 40C AMB-CONT

HZ

VOLTS

AMPS

RPM

HP

CODE

SF

DES

PF

NEMA NOM. EFF

60

230/460

44/22

3540

20

J

1.15

A

92

%

91.7

%

PH 3

CL F

MAX RPM 5400

MAX CORR KVAR 6.61

USABLE AT 208V

48

%

%

IP55

FR 256T

ENCL TEFC

DE BRG 6309

ODE BRG 6309

GREASE POLYREX EM

MTR WT 331

LBS

USABLE AT 50HZ 15HP 190/380V 40.8/20.4A

SF1.0

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 # 47264

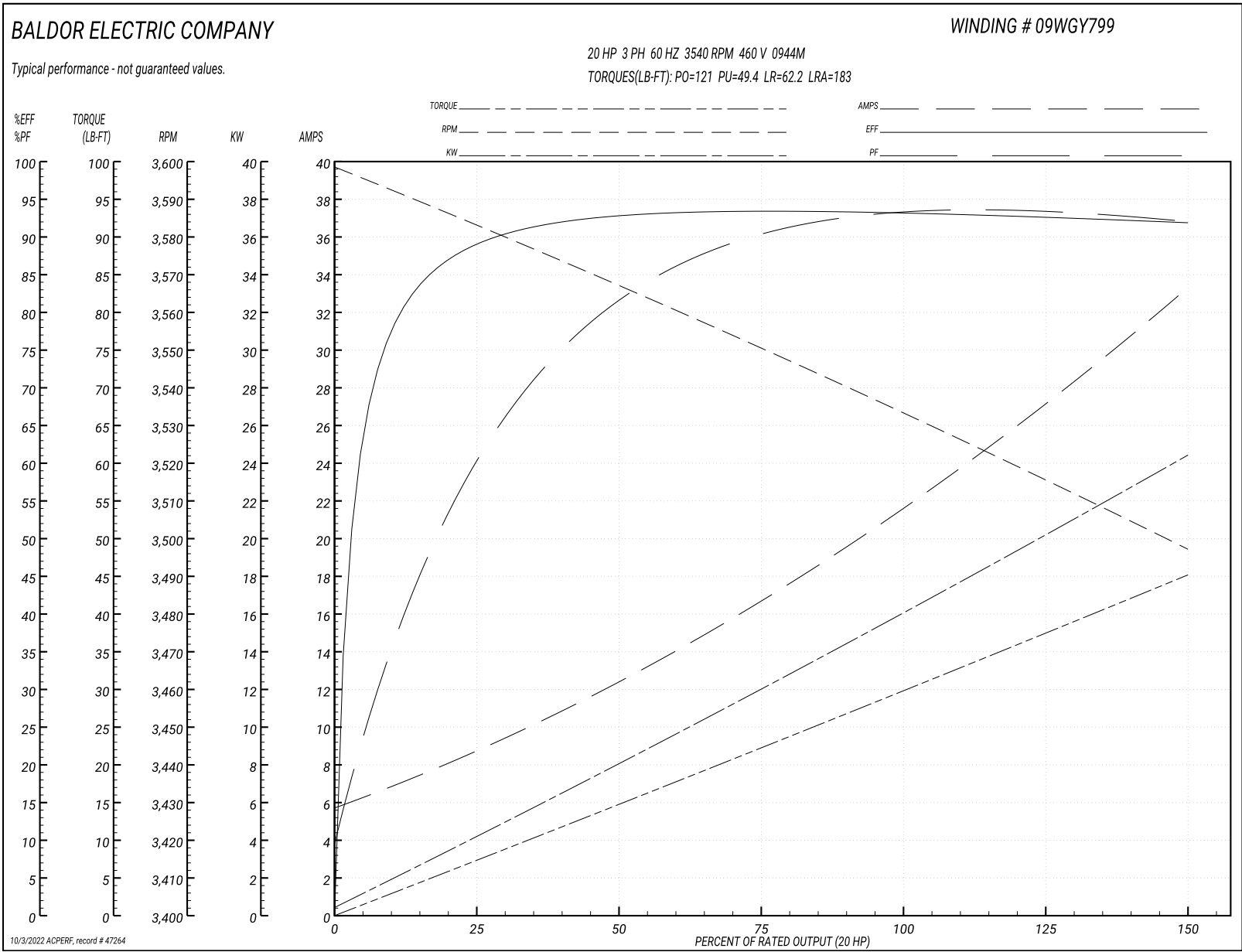
Typical performance - not guaranteed values

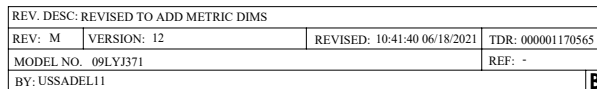
Winding: 09WGY799-R020				Type: 0944M		Enclosure: TEFC					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		20		Full Load Torque		29.76 LB-FT					
Volts		230/460		Start Configuration		direct on line					
Full Load Amps		44/22		Breakdown Torque		121 LB-FT					
R.P.M.		3540		Pull-up Torque		49.4 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		62.2 LB-FT			
NEMA Design Code		A		KVA Code		J		Starting Current		183 A	
Service Factor (S.F.)		1.15		No-load Current		6.12 A					
NEMA Nom. Eff.		91.7		Power Factor		92		Line-line Res. @ 25°C		0.377 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		62°C					
S.F. Amps				Temp. Rise @ S.F. Load		76°C					
				Locked-rotor Power Factor		27.8					
				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	63	83	90	92	93	93	93
Efficiency	88.7	92.8	93.2	93.2	92.6	91.8	92.8
Speed	3583	3567	3551	3534	3516	3497	3523
Line amperes	8.14	12.12	16.69	21.89	27.18	33.06	25.1

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values





CD0180

1-BLU

4-YEL

9-GRY

7-PNK

5-BLK

6-PRP

8-RED

3-ORG

OPTIONAL THERMOSTATS

J-BRN

J-BRN

2-WHT

LOW VOLTAGE (2D)

7

6

1

8

4

2

9

5

3

LINE

HIGH VOLTAGE (1D)

7

4

1

8

5

2

9

6

3

LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.

2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.

3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.

4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10:25:29 02/19/2019

BY: ENBRIRO

MTL: -

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180

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