



Customer information packet

ECP2280T-4

5HP, 880RPM, 3PH, 60HZ, 254T, 0952M, TEFC, F1, N

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.3
Current @ Voltage	8.600 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	Q
Type	AC
Mech. spec.	09J371
Base	
Status	PRD/A
Elec. spec.	09WGT404
Layout	09LYJ371
Eff. date	09-16-2025
CD Diagram	CD0006
Poles	08
Leads	3#12
Proprietary	False
Created date	02-07-2017

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1350 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0952M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	24.78 IN
Power Factor	61
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	880 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

NP3995ABBL																		
CAT #		ECP2280T-4					SER					CC		010A				
SPEC		09J371T404G1					RATING		40C AMB-CONT									
HZ		VOLTS			AMPS			RPM		HP	CODE		SF	DES	PF	NEMA NOM. EFF		
60		460			8.6			880		5	K		1.15	A	61	%	87.5	%
																%		%
PH	3	CL	F	MAX RPM		1350		MAX CORR KVAR			USABLE AT 208V			N/A				
IP55		FR		254T		ENCL	TEFC		DE BRG		6309		ODE BRG		6309			
GREASE		POLYREX EM										MTR WT		331	LBS			
USABLE AT		50HZ 3HP 380V 7.3A								SF1.0								
CL I DIV 2 GRPS A,B,C,D								CL I ZONE 2 GRPS				IIA,IIB,IIC			TEMP T	160	C	
1.0 SF ON PWM INVERTER						POWER		INV TEMP CL			180		C					
CHP		60-90		HZ	1.5:1		CT	1.3-60		HZ	50:1		VT	0-60		HZ	1000:1	
SPACE HEATER LEADS H1-H2:								TIE LIKE NUMBERS				TOGETHER						
V			A			W			MAX SPACE HEATER TEMP									

AC Induction Motor Performance Data

Record # 62451

Typical performance - not guaranteed values

Winding: 09WGT404-R002				Type: 0952M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5		Full Load Torque		29.55 LB-FT		
Volts		460		Start Configuration		direct on line		
Full Load Amps		8.6		Breakdown Torque		82 LB-FT		
R.P.M.		880		Pull-up Torque		46.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		72.2 LB-FT		
NEMA Design Code		A		KVA Code	K		Starting Current	53.5 A
Service Factor (S.F.)		1.15		No-load Current		5.53 A		
NEMA Nom. Eff.		87.5		Power Factor	61		Line-line Res. @ 25°C	1.6349 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		42°C
S.F. Amps						Temp. Rise @ S.F. Load		50°C
						Locked-rotor Power Factor		27.3

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	42	54	61	66	70	64
Efficiency	78.6	86	87.9	88.2	87.6	86.6	87.8
Speed	896.5	893.4	889.8	886	882.1	877.6	884
Line amperes	5.8	6.45	7.42	8.62	10	11.7	9.45

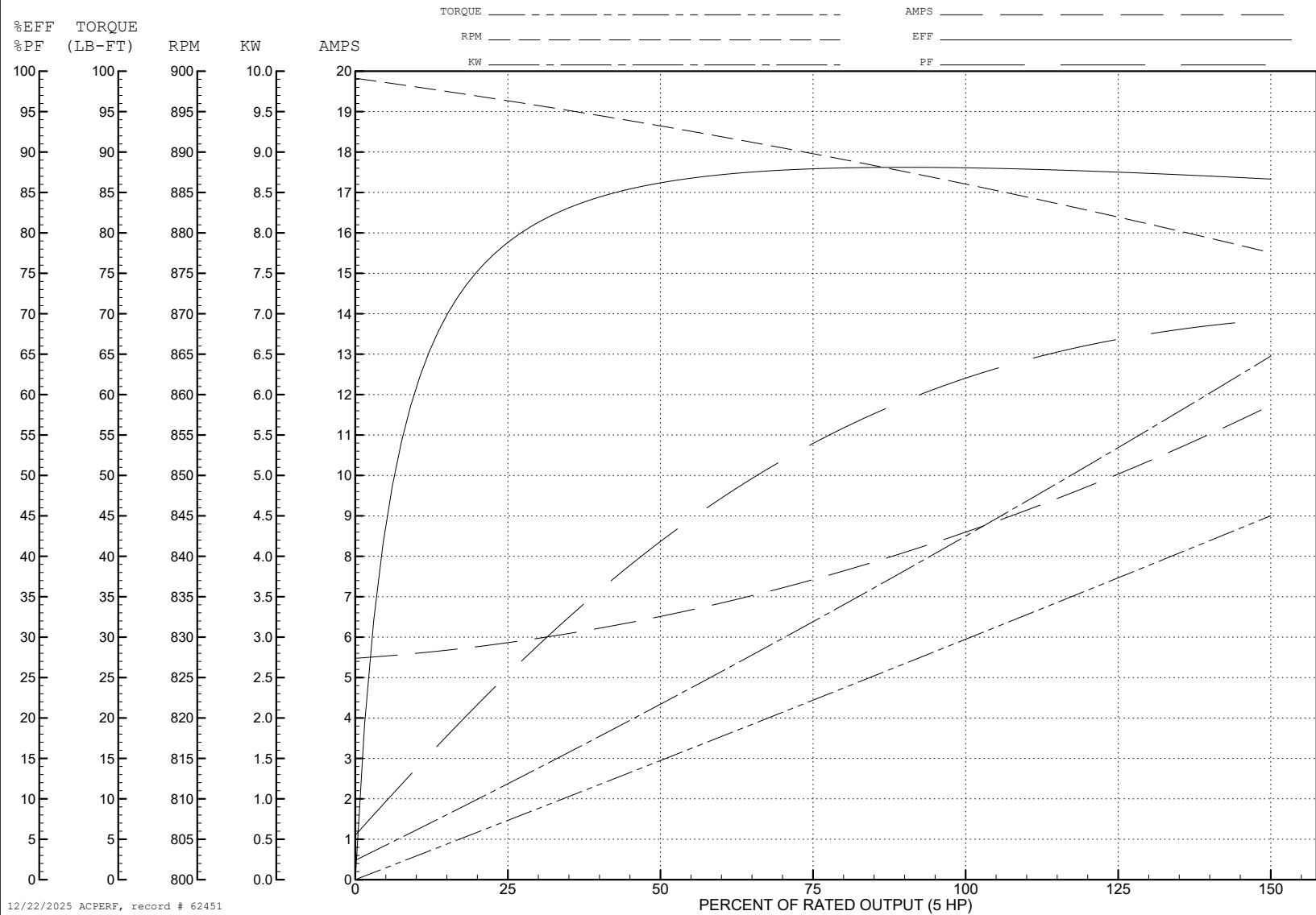
ABB Motors and Mechanical Inc.

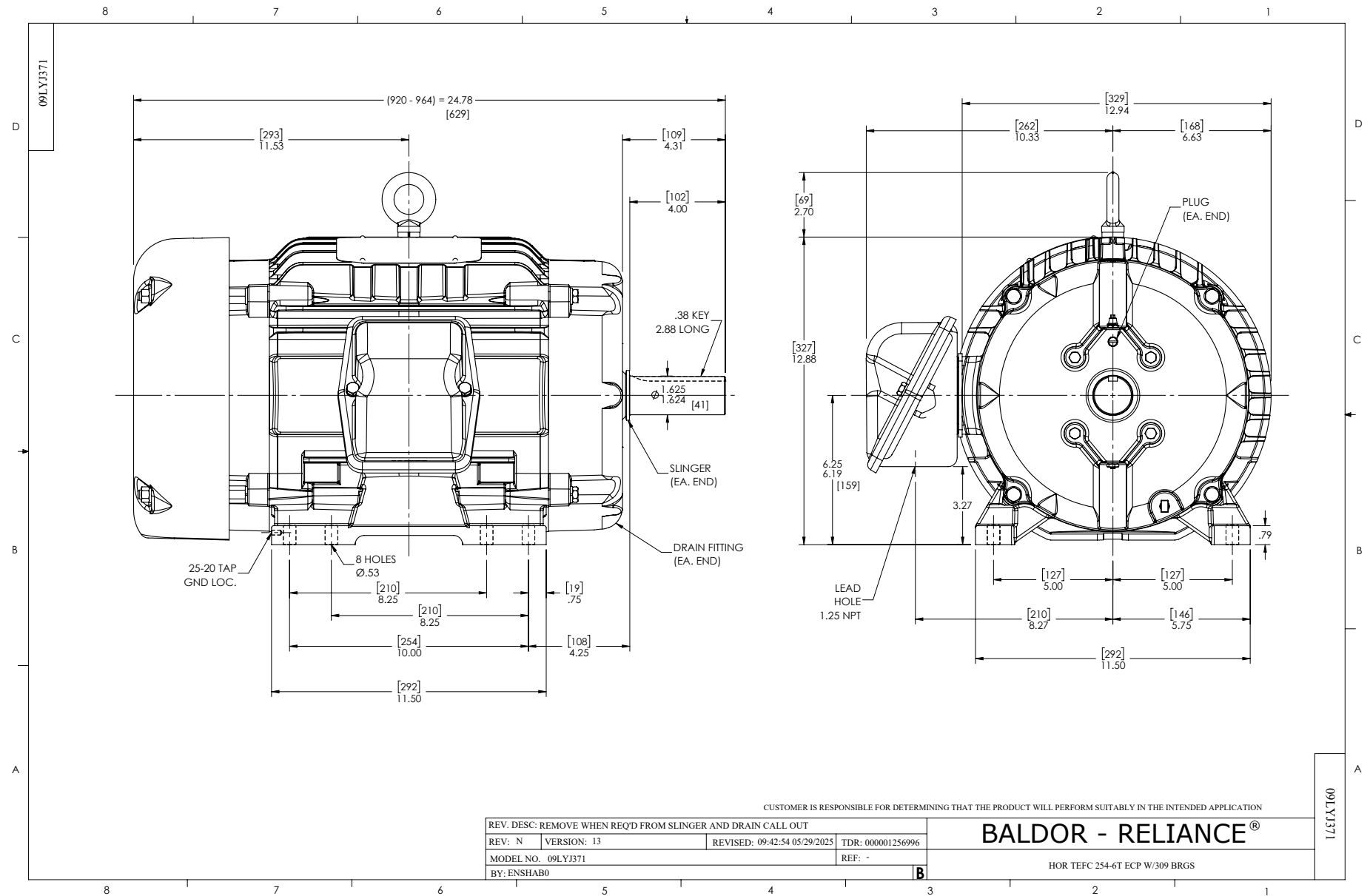
WINDING # 09WGT404

Typical performance - not guaranteed values.

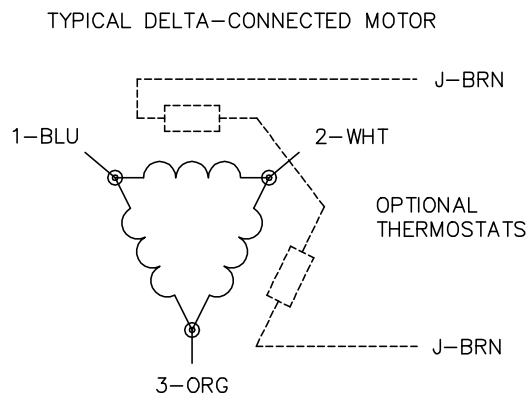
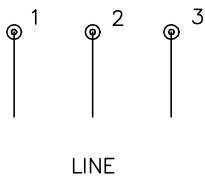
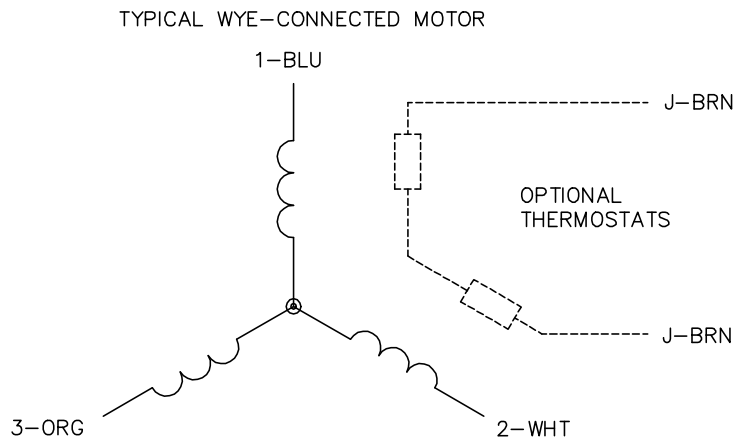
5 HP 3 PH 60 HZ 880 RPM 460 V 0952M

TORQUES (LB-FT): PO=82 PU=46.8 LR=72.2 LRA=53.5





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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