



Product Information Packet

ECP4110T

40HP,1775RPM,3PH,60HZ,324T,1254M,TEFC,F1

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY276	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12F904	Layout:	12LYF904	Poles:	04	Created Date:	12-13-2017
Base:	RG	Eff. Date:	02-16-2022	Leads:	9#8		

Specs			
Catalog Number:	ECP4110T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	324T	Inverter Code:	Inverter Duty
Frame Material:	Iron	KVA Code:	H
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	40.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 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:	1254M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	82
	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:	0.8	Shaft Rotation:	Reversible
Current @ Voltage:	48.000 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
	96.000 A @ 230.0 V	Speed Code:	Single Speed
	102.000 A @ 208.0 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 NP3241

CAT.NO.	ECP4110T	P/N		ENCLOSURE	TEFC						
SPEC.	12F904Y276G3	CC	010A	FRAME	324T	S/N					
HP	40	CLASS	F	HZ	60	DES	A				
RPM	1775	RPM MAX	2700	PH	3	KVA-CODE	H				
VOLT	230/460	MOTOR WEIGHT	618								
AMP	96/48	SER.F.	1.15	PF	82	ODE BRG	6312	DE BRG	6312		
RATING	40C AMB-CONT	NEMA-NOM-EFF	94.1	GREASE	POLYREX EM						
				INV.TYPE	PWM						
TEMP CODE	T3	INVERTER-TEMP-CODE	200								
TEMP =	200	C HP FR	60	C HP TO	90						
CT HZ FROM	0.8	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 # 68449

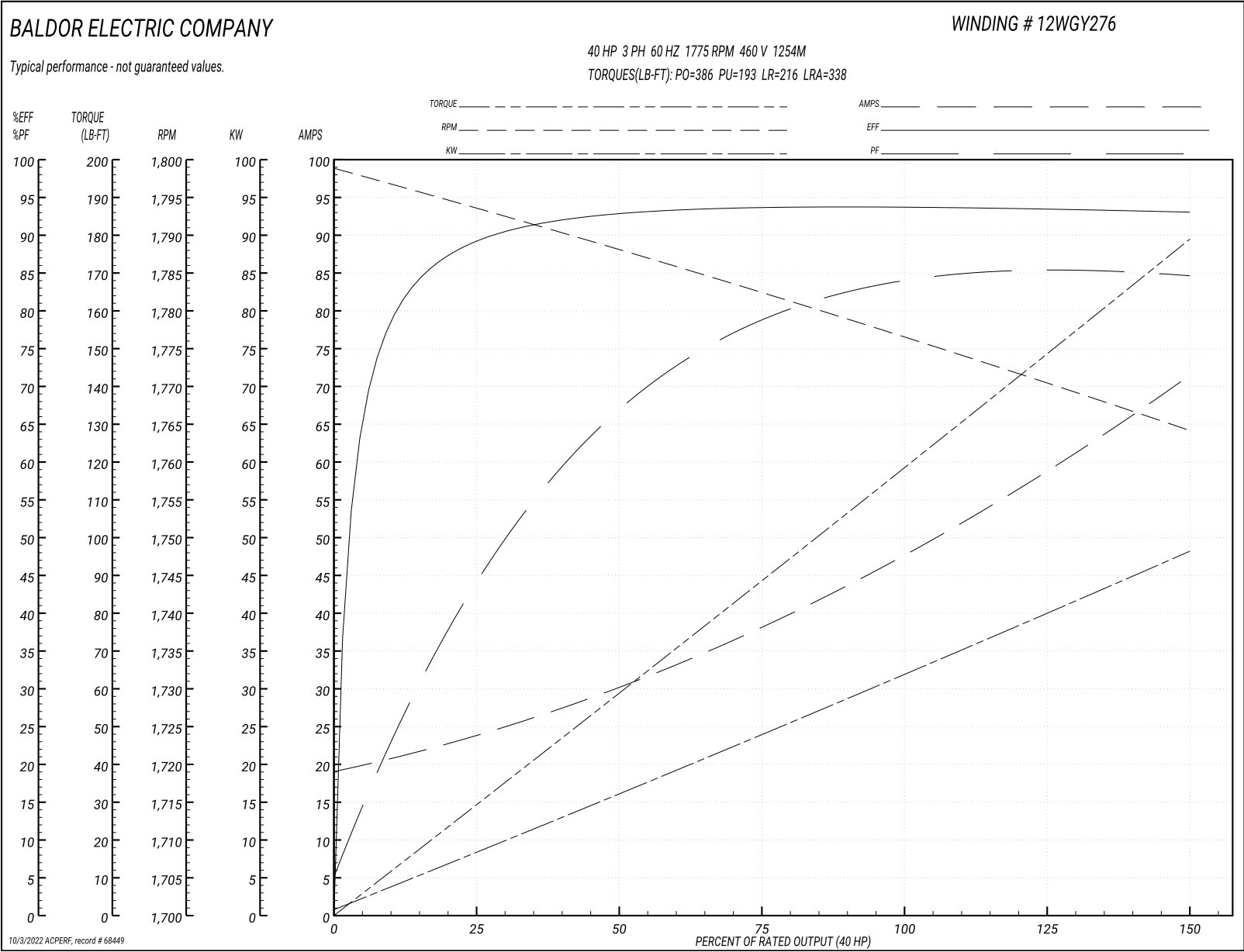
Typical performance - not guaranteed values

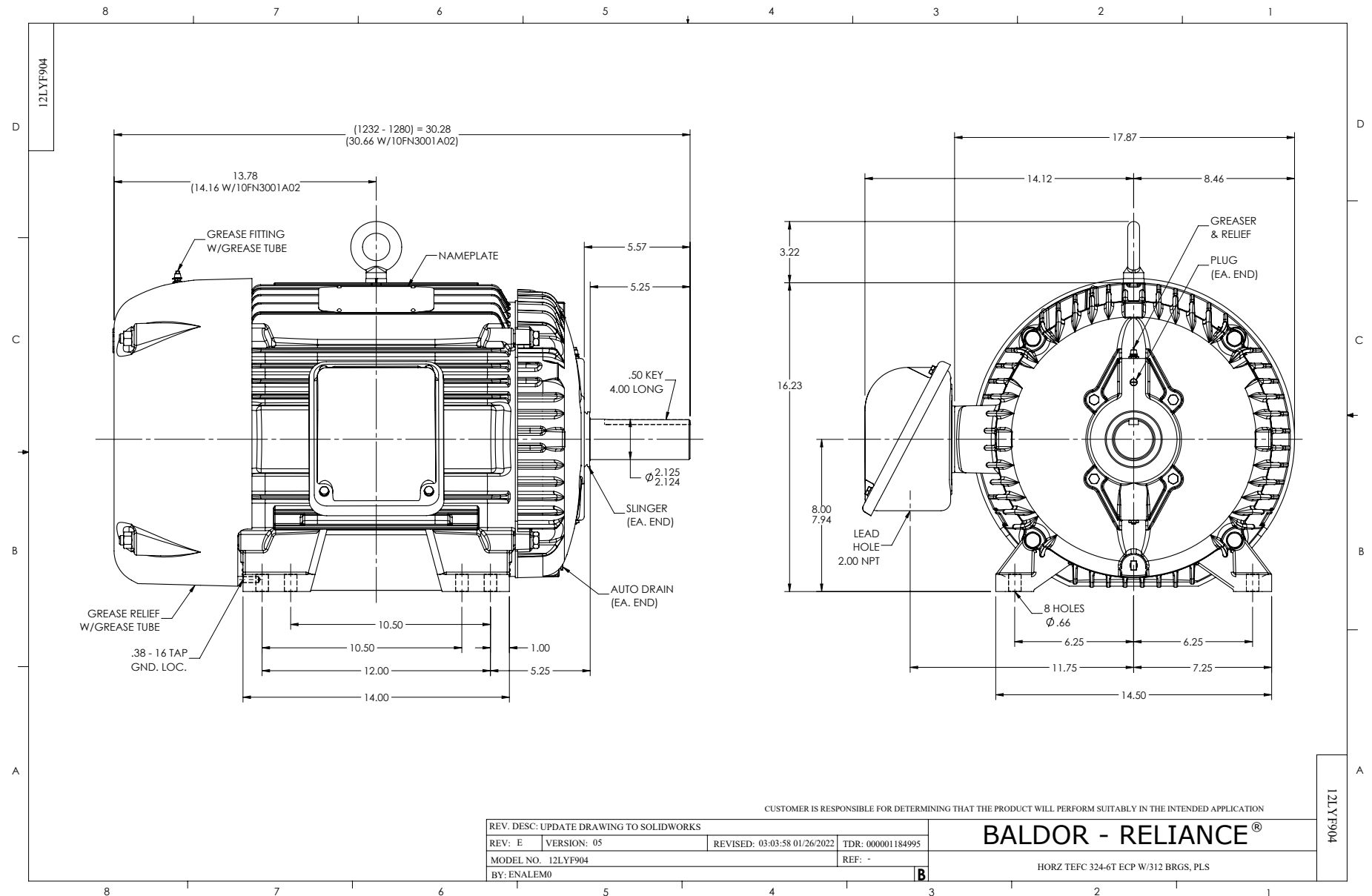
Winding: 12WGY276-R036			Type: 1254M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40	Full Load Torque		118 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		96/48	Breakdown Torque		386 LB-FT		
R.P.M.		1775	Pull-up Torque		193 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		216 LB-FT		
NEMA Design Code		A KVA Code	Starting Current		338 A		
Service Factor (S.F.)		1.15	No-load Current		19.9 A		
NEMA Nom. Eff.		94.1 Power Factor	82		Line-line Res. @ 25°C		0.14898 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
S.F. Amps				Temp. Rise @ S.F. Load		64°C	
				Locked-rotor Power Factor		27.3	
				Rotor inertia		7.19 LB-FT2	

Load Characteristics 460 V, 60 Hz, 40 HP

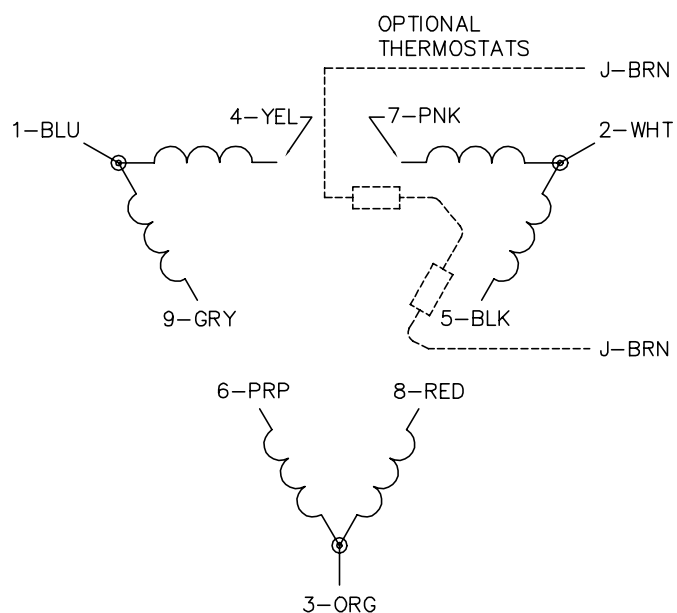
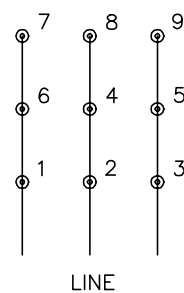
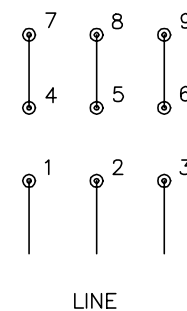
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	78	83	85	85	84
Efficiency	90.1	93.5	94.2	94.2	93.8	93.1	94
Speed	1793.5	1788	1782.5	1776.6	1770.7	1764.1	1773
Line amperes	22.9	29.5	38.4	48.1	59.2	70.8	54.8

Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values





CD0180

LOW VOLTAGE
(2D)HIGH VOLTAGE
(1D)

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.

CD0180

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

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