



Product Information Packet

ECP4110T-4

54M 4P TEFC HOR 324T CHEM SER 32-6 SE

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY399	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	12F904	Layout:	12LYF904	Poles:	04	Created Date:	05-29-2018
Base:	RG	Eff. Date:	02-16-2022	Leads:	3#8		

Specs			
Catalog Number:	ECP4110T-4	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	324T	KVA Code:	H
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	40.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 8 AWG
Synchronous Speed @ Frequency:	1800 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:	1254M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	82
	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:	0.8	Shaft Rotation:	Reversible
Current @ Voltage:	48.000 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 NP3241

CAT.NO.	ECP4110T-4	P/N		ENCLOSURE	TEFC						
SPEC.	12F904Y399G6	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	460	MOTOR WEIGHT	595								
AMP	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 # 70998

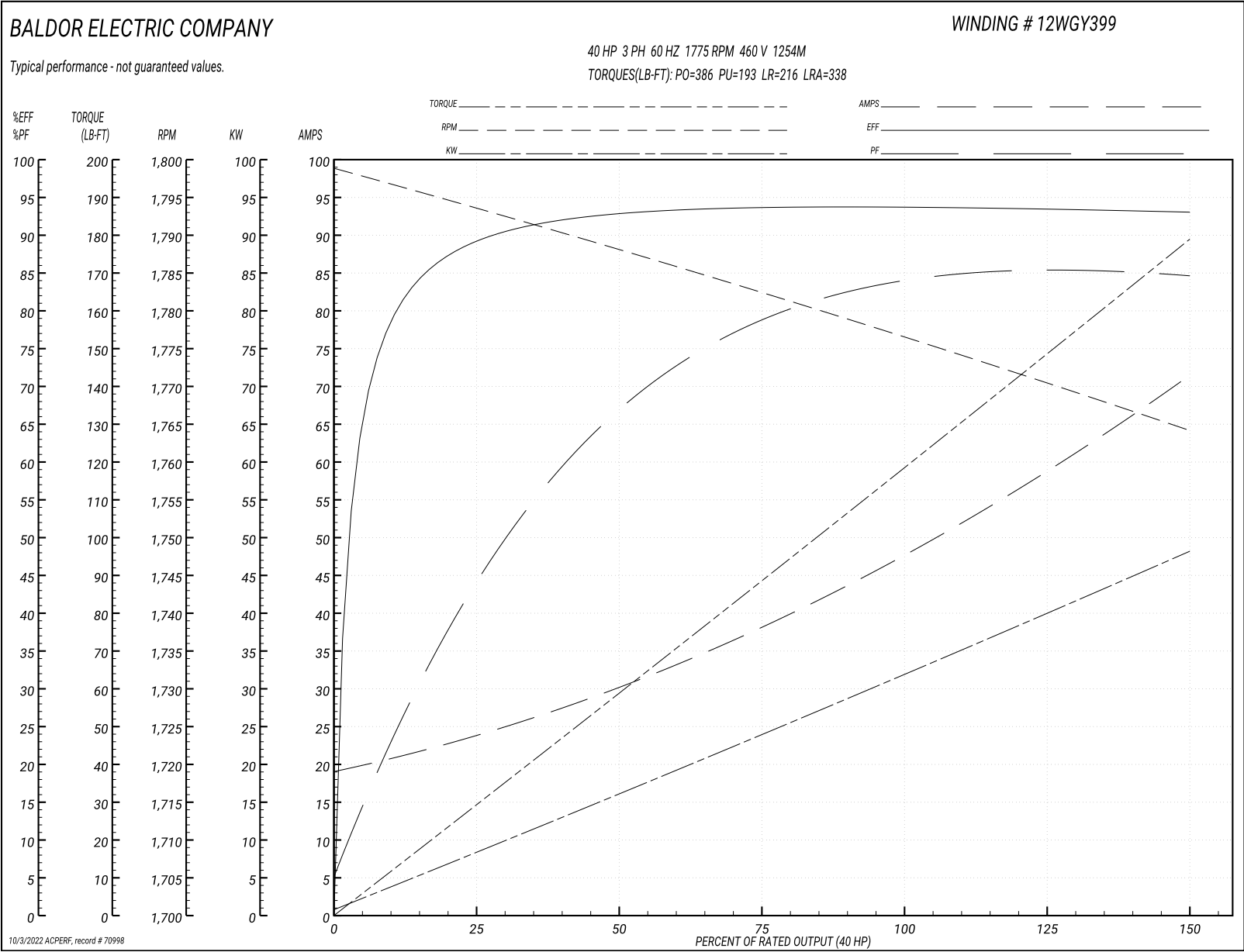
Typical performance - not guaranteed values

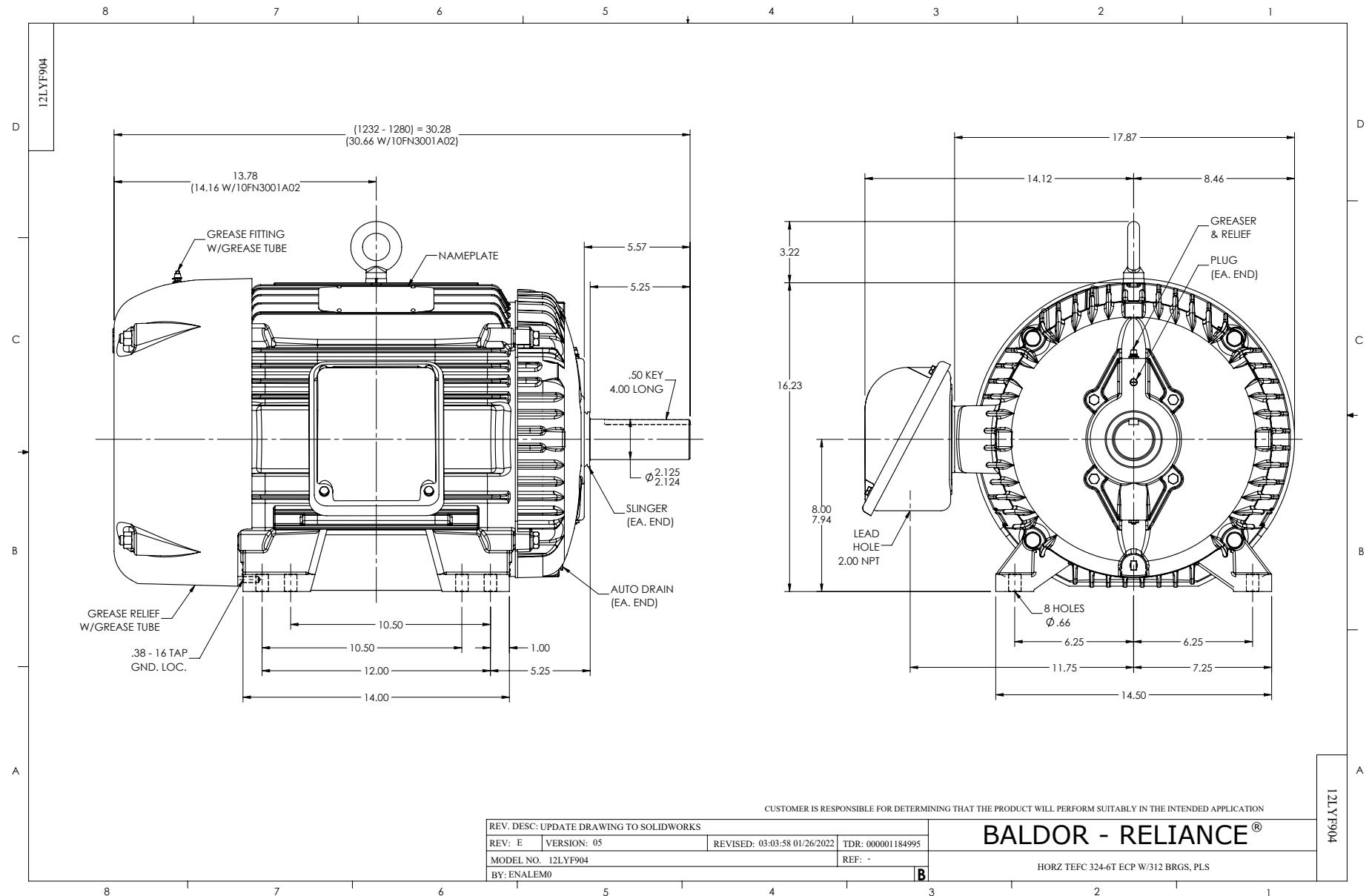
Winding: 12WGY399-R046			Type: 1254M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		40	Full Load Torque		118 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		48	Breakdown Torque		386 LB-FT		
R.P.M.		1775	Pull-up Torque		193 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		216 LB-FT	
NEMA Design Code		A	KVA Code	H	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

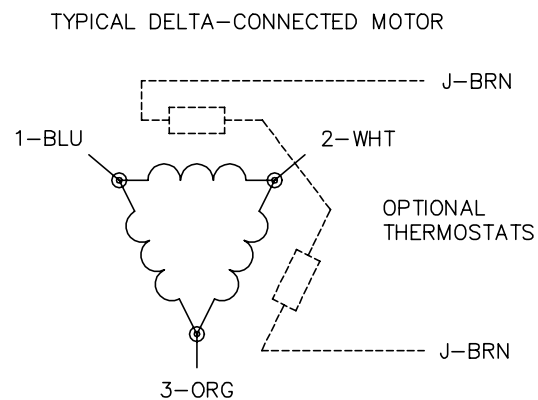
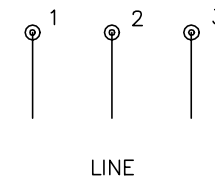
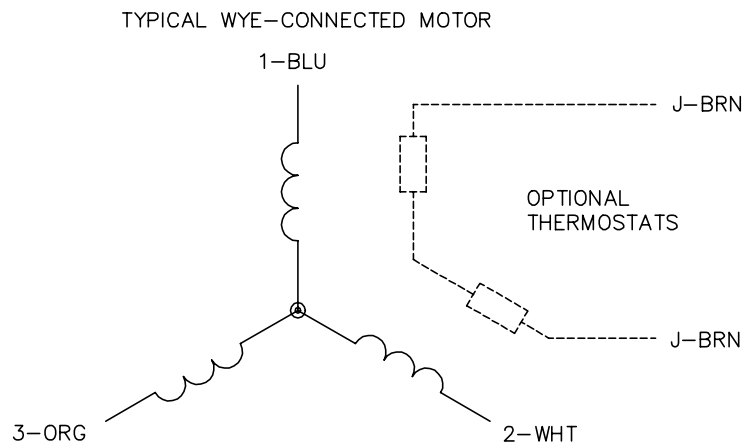
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	78	83	85	85	84
Efficiency	90.1	93.5	94.2	94.2	93.8	93.1	94
Speed	1793.5	1788	1782.5	1776.6	1770.7	1764.1	1773
Line amperes	22.9	29.5	38.4	48.1	59.2	70.8	54.8

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





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

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BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

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

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