ABB BALDOR RELIANCE

Customer information packet

CECP84110T-4

40HP, 1770RPM, 3PH, 60HZ, 324TC, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	324TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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
Current @ Voltage	46.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY762
Layout	12LY-000-140
Eff. date	03-31-2026
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	01-15-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	46.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.74 IN
Power Factor	86
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 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

Nameplate

NP4332															
CAT.NO.	CECP84110T-4			**P/N**						**ENCLOSURE**	TEFC				
SPEC.	12-0000-0419			**CC**	010A	**FRAME**	324TC			**S/N**					
HP	40			**CLASS**	F	**HZ**	60	**ODE BRG**	6312	**DE BRG**	6312				
RPM	1770	**RPM MAX**	2700	**PH**	3	**DES**	B	**D.E. BRG.**	60BC03X30X						
VOLT	460			**KVA-CODE**	G			**O.D.E. BRG.**	60BC03X30X						
AMP	46			**MOTOR WEIGHT**	600	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT			**MAX. KVAR**	8.3	**BLANK**									
NEMA-NOM-EFF	94.1	**# OF ROTOR BARS**	40	**SER.F.**	1.15	**IP**	56								
G.MIN.EFF	93	**# OF STATOR SLOTS**	48	**PF**	86	**INV.TYPE**	PWM								
TEMP CODE	T3	**INVERTER-TEMP-CODE**	200												
TEMP =	200	**C HP FR**	60	**C HP TO**	90										
CT HZ FROM	1	**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 # 49085
Typical performance - not guaranteed values

Winding: 12WGY762-R009	**Type:** 1260M	**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			46	**Breakdown Torque**	305 LB-FT
R.P.M.			1770	**Pull-up Torque**	146 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	173 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	273 A
Service Factor (S.F.)			1	**No-load Current**	14.3 A
NEMA Nom. Eff.	94.1	**Power Factor**	86	**Line-line Res. @ 25ºC**	0.16401 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
				Locked-rotor Power Factor	26.5
				Rotor inertia	7.99 lb-ft²

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	57	77	84	86	87	86
Efficiency	92.6	94.7	94.8	94.3	93.5	92.5
Speed	1794.1	1788	1780.8	1773.7	1765.2	1756.6
Line amperes	18.1	25.6	35.6	46.1	57.9	70.1

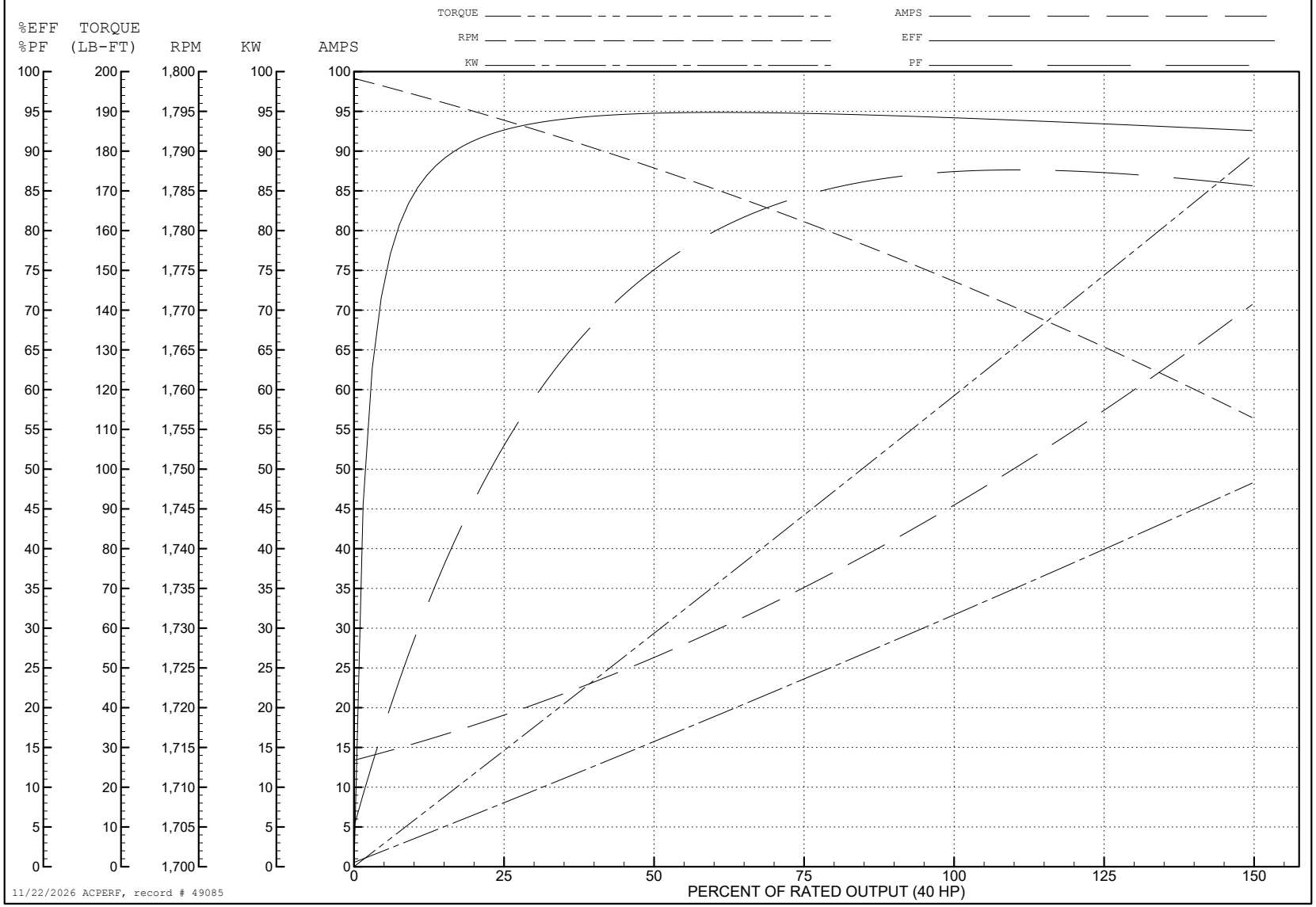
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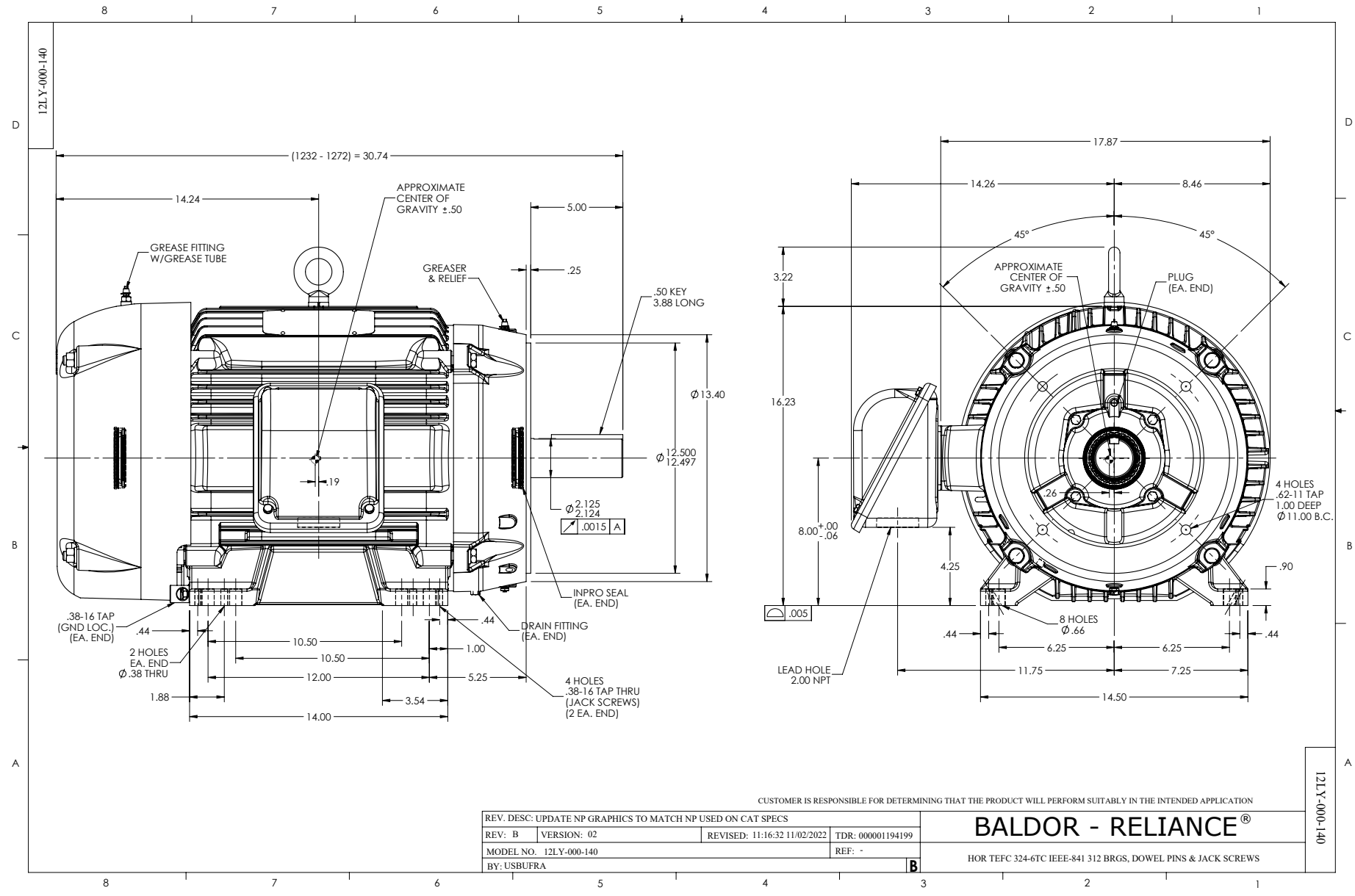
WINDING # 12WGY762

40 HP 3 PH 60 HZ 1770 RPM 460 V 1260M

Typical performance - not guaranteed values.

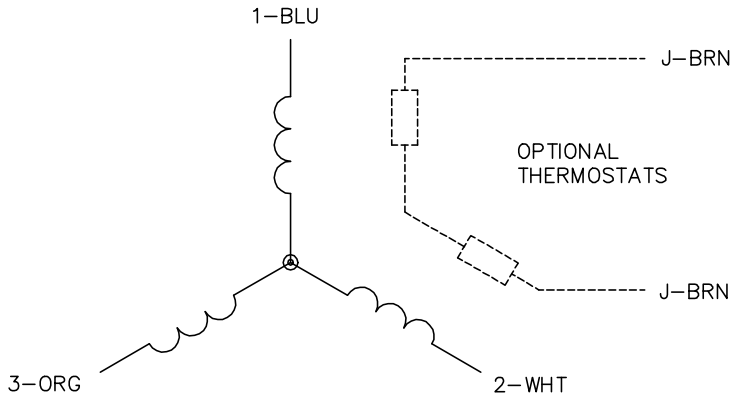
TORQUES(LB-FT): PO=305 PU=146 LR=173 LRA=273

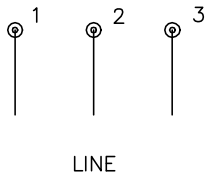



12LY-000-140
(1232 - 1272) = 30.74
14.24
APPROXIMATE CENTER OF GRAVITY ±.50
5.00
.25
GREASE FITTING W/GREASE TUBE
GREASER & RELIEF
.50 KEY 3.88 LONG
Ø13.40
Ø12.500 12.497
.19
Ø2.125 2.124
.0015 A
INPRO SEAL (EA. END)
.38-16 TAP (GND LOC.) (EA. END)
.44
10.50
10.50
12.00
1.88
3.54
14.00
2 HOLES EA. END Ø.38 THRU
1.00
5.25
.44
DRAIN FITTING (EA. END)
4 HOLES .38-16 TAP THRU (JACK SCREWS) (2 EA. END)
17.87
14.26
8.46
45°
45°
3.22
APPROXIMATE CENTER OF GRAVITY ±.50
PLUG (EA. END)
16.23
.26
4 HOLES .62-11 TAP 1.00 DEEP Ø11.00 B.C.
8.00 +.00 -.06
4.25
.90
.005
8 HOLES Ø.66
.44
.44
6.25
6.25
LEAD HOLE 2.00 NPT
11.75
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: B
VERSION: 02
REVISED: 11:16:32 11/02/2022
TDR: 000001194199
MODEL NO. 12LY-000-140
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR TEFC 324-6TC IEEE-841 312 BRGS, DOWEL PINS & JACK SCREWS
12LY-000-140

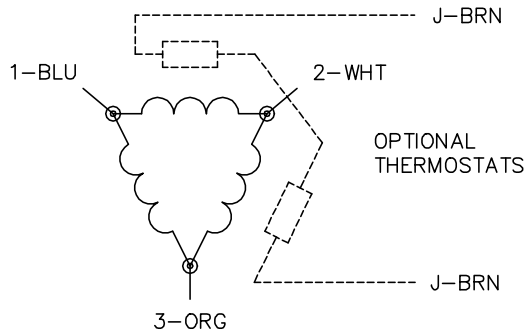
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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