

ABB BALDOR RELIANCE III

Customer information packet

ECP84110T-4

40HP, 1770RPM, 3PH, 60HZ, 324T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	324T
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	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY762
Layout	12LYG135
Eff. date	03-31-2026
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	12-12-2018

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	Standard
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.	ECP84110T-4			P/N		ENCLOSURE			TEFC	
SPEC.	12-0000-0365			CC	010A	FRAME	324T	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			629	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 # 46865

Typical performance - not guaranteed values

Winding: 12WGY762-R003			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	
Service Factor (S.F.)		1.15	No-load Current		14.3 A	
NEMA Nom. Eff.		94.1	Power Factor	86	Line-line Res. @ 25°C	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps				Temp. Rise @ S.F. Load		78°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	S.F.
Power Factor	57	77	84	86	87	86	87
Efficiency	92.6	94.7	94.8	94.3	93.5	92.5	93.8
Speed	1794.1	1788	1780.8	1773.7	1765.2	1756.6	1769
Line amperes	18.1	25.6	35.6	46.1	57.9	70.1	53.2

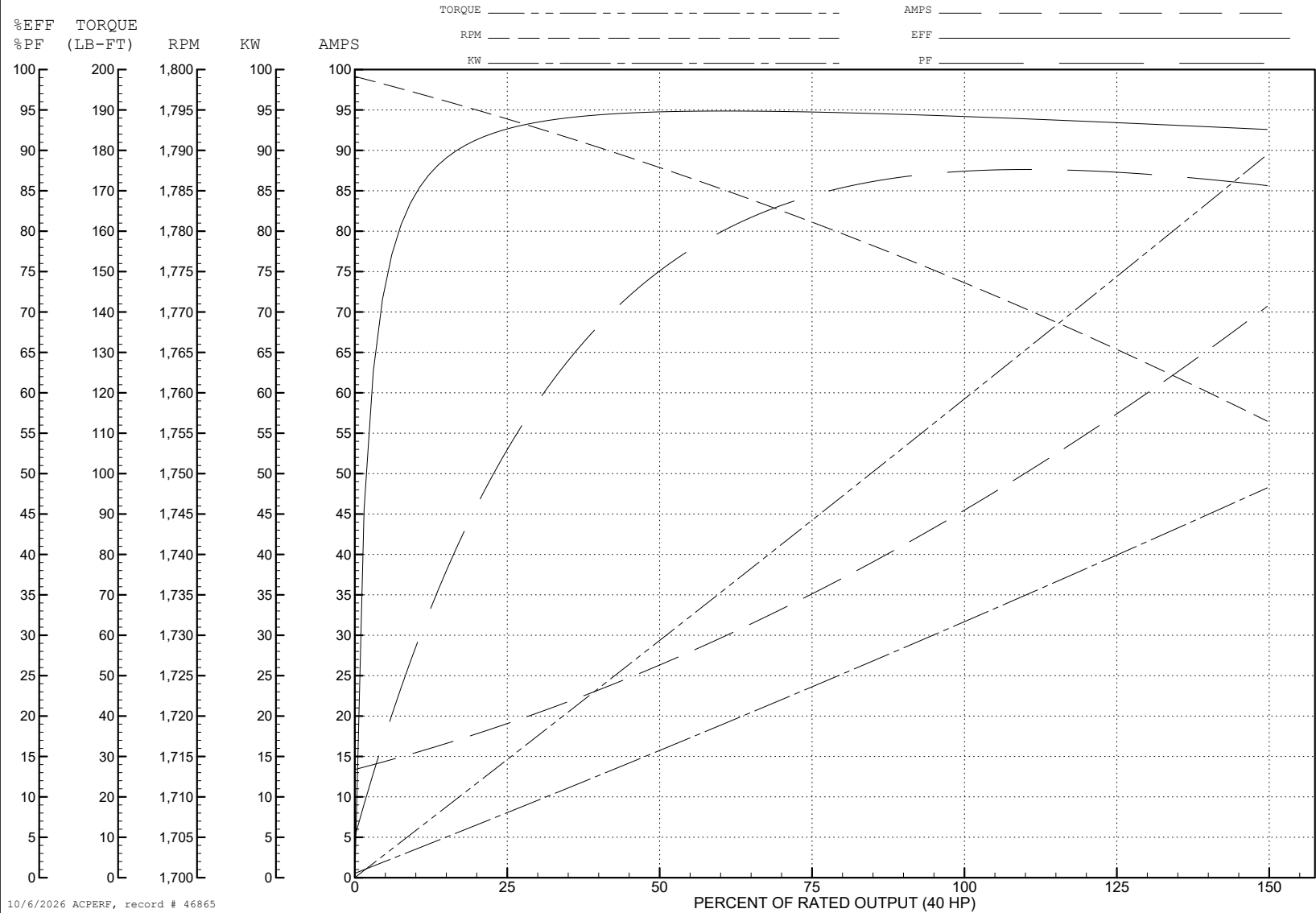
ABB Motors and Mechanical Inc.

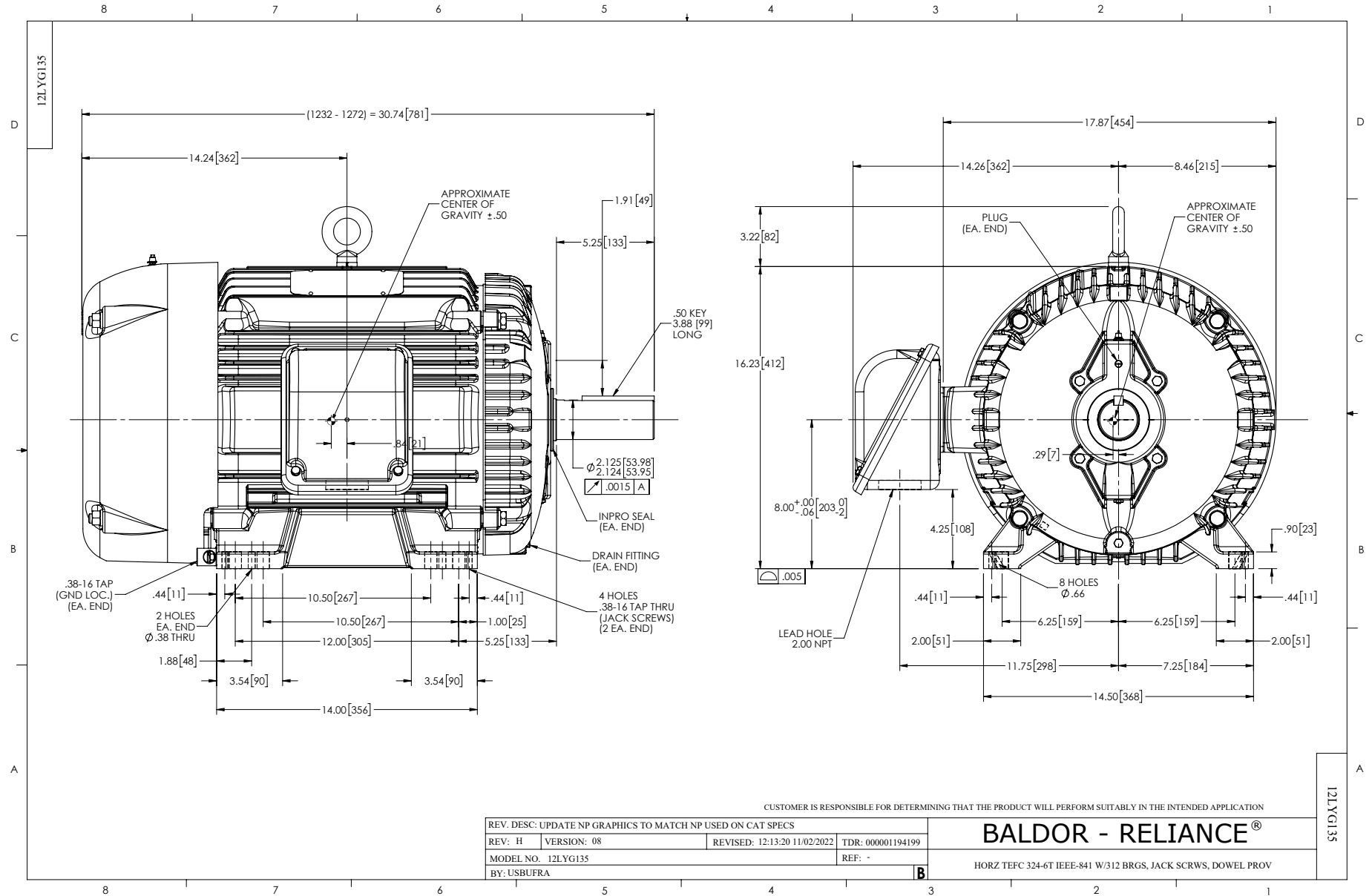
WINDING # 12WGY762

Typical performance - not guaranteed values.

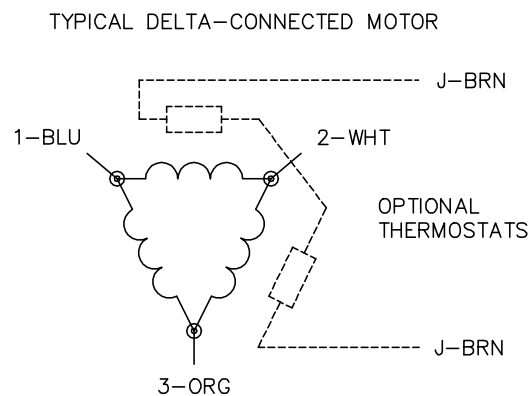
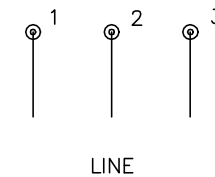
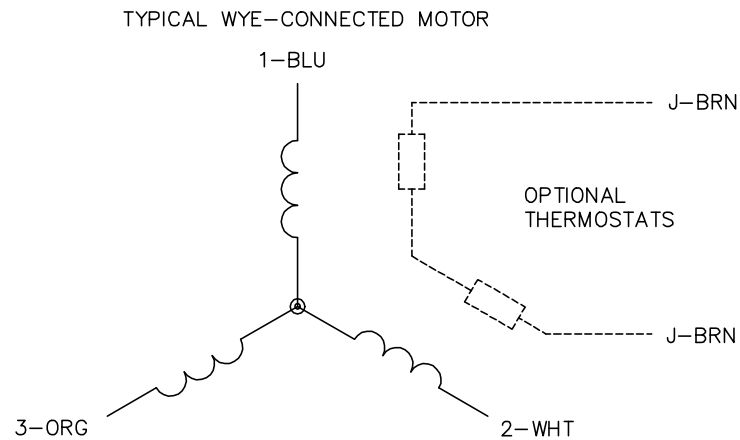
40 HP 3 PH 60 HZ 1770 RPM 460 V 1260M

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





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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