

ABB BALDOR RELIANCE III

Customer information packet

ECP84100T-4

15HP, 1180RPM, 3PH, 60HZ, 284T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	284T
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	19.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ314
Layout	10LYH231
Eff. date	09-26-2025
CD Diagram	CD0006
Poles	06
Leads	3#12
Proprietary	False
Created date	12-05-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	19.4 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1054M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.00 IN
Power Factor	77
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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.	ECP84100T-4			P/N				ENCLOSURE	TEFC	
SPEC.	10-0000-0406			CC	010A	FRAME	284T	S/N		
HP	15			CLASS	F	HZ	60	ODE BRG	6311	DE BRG 6311
RPM	1180	RPM MAX	1800	PH	3	DES	B	D.E. BRG.	55BC03X30X	
VOLT	460			KVA-CODE	G		O.D.E. BRG.	55BC03X30X		
AMP	19.4			MOTOR WEIGHT			447	GREASE	POLYREX EM	
RATING	40C AMB-CONT			MAX. KVAR			5.5	BLANK		
NEMA-NOM-EFF	91.7	# OF ROTOR BARS			42	SER.F.	1.15	IP	56	
G.MIN.EFF	91	# OF STATOR SLOTS			54	PF	77	INV.TYPE	PWM	
TEMP CODE	T3C	INVERTER-TEMP-CODE			180					
TEMP =	160	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 O VT HZ TO 60

AC Induction Motor Performance Data

Record # 47541

Typical performance - not guaranteed values

Winding: 10WGZ314-R001				Type: 1054M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15		Full Load Torque		66.4 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		19.4		Breakdown Torque		177 LB-FT	
R.P.M.		1180		Pull-up Torque		72.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		104 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		115 A
Service Factor (S.F.)		1.15		No-load Current		8.55 A	
NEMA Nom. Eff.		91.7	Power Factor	77	Line-line Res. @ 25°C		0.608 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps				Temp. Rise @ S.F. Load		56°C	
				Locked-rotor Power Factor		31.9	
				Rotor inertia		6.61 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	63	73	78	81	81	79
Efficiency	87.3	91.8	92.6	92.3	91.6	90.6	92
Speed	1196	1191	1187	1182	1176	1170	1179
Line amperes	9.65	12.1	15.5	19.4	23.7	28.8	22.2

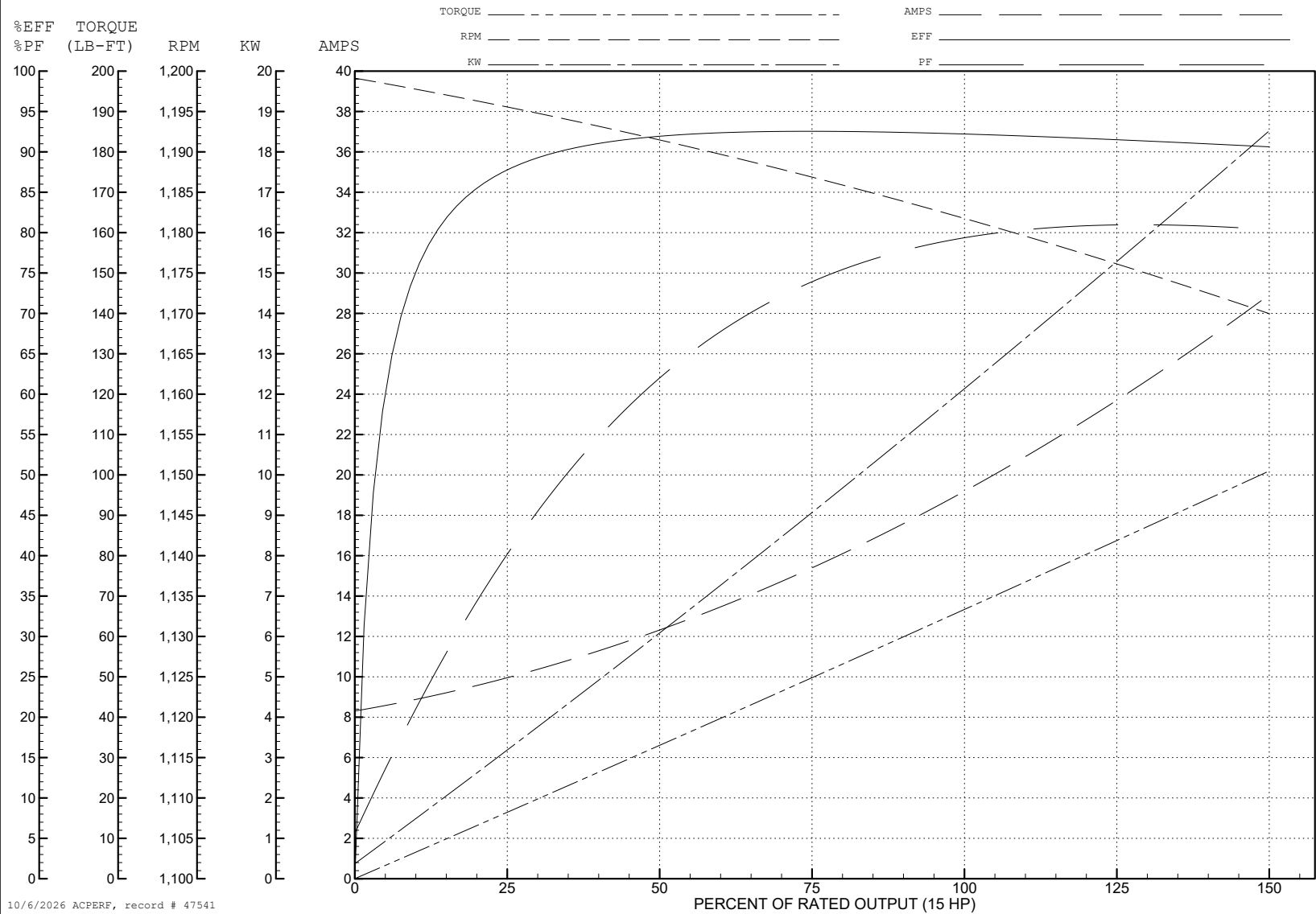
ABB Motors and Mechanical Inc.

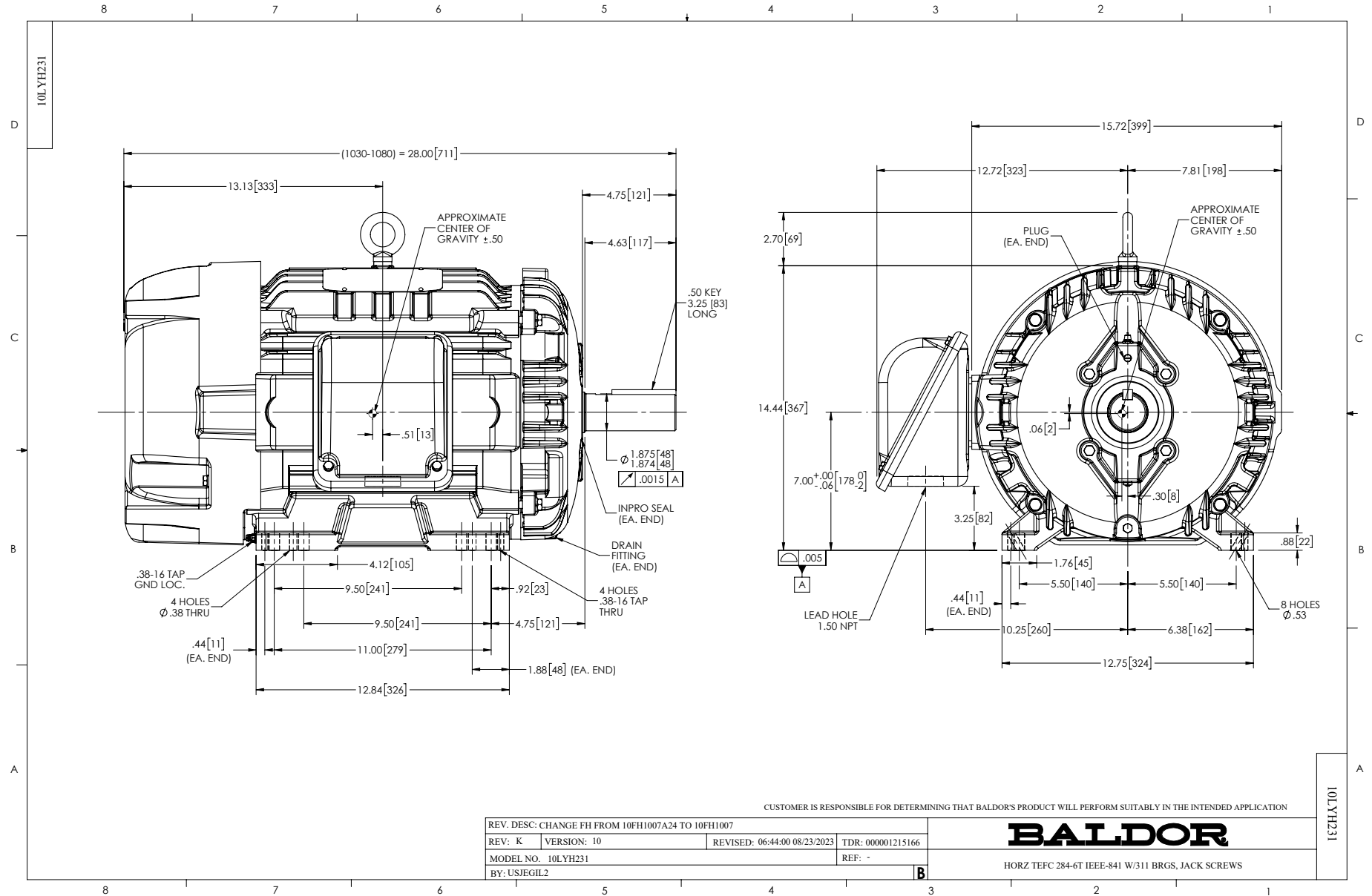
WINDING # 10WGZ314

Typical performance - not guaranteed values.

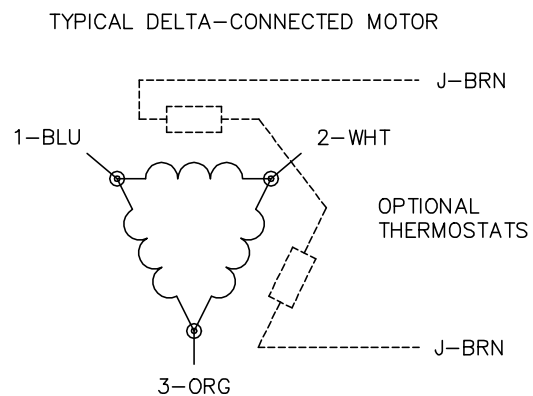
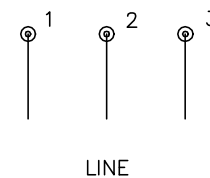
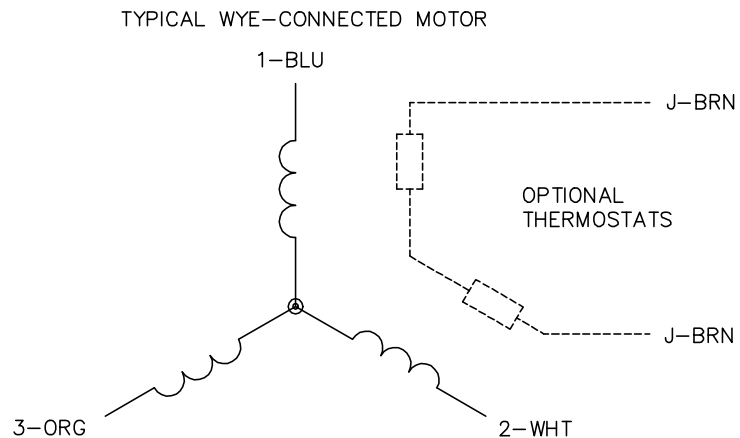
15 HP 3 PH 60 HZ 1180 RPM 460 V 1054M

TORQUES (LB-FT): PO=177 PU=72.2 LR=104 LRA=115





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

SH 1 of 1