

ABB BALDOR RELIANCE III

Customer information packet

ECP82333T-4

15HP, 1760RPM, 3PH, 60HZ, 254T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	254T
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	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	1.3
Current @ Voltage	17.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C

Part Detail

Revision	R
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ997
Layout	09LYJ287
Eff. date	11-14-2023
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	11-27-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	17.6 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	2700 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.78 IN
Power Factor	85
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 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.	ECP82333T-4			P/N				ENCLOSURE	TEFC					
SPEC.	09-0000-0860			CC	010A	FRAME	254T	S/N						
HP	15			CLASS	F	HZ	60	ODE BRG	6309	DE BRG	6309			
RPM	1760	RPM MAX	2700	PH	3	DES	B	D.E. BRG.	45BC03X30X					
VOLT	460			KVA-CODE	G		O.D.E. BRG.		45BC03X30X					
AMP	17.6			MOTOR WEIGHT			317	GREASE	POLYREX EM					
RATING	40C AMB-CONT			MAX. KVAR			3.5	BLANK						
NEMA-NOM-EFF	92.4	# OF ROTOR BARS			40	SER.F.	1.15	IP	56					
G.MIN.EFF	91	# OF STATOR SLOTS			48	PF	85	INV.TYPE	PWM					
TEMP CODE	T3C	INVERTER-TEMP-CODE			180									
TEMP =	160	C HP FR	60	C HP TO	90									
CT HZ FROM	1.3	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 # 47086

Typical performance - not guaranteed values

Winding: 09WGZ997-R019			Type: 0944M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		15	Full Load Torque		44.6 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		17.6	Breakdown Torque		163 LB-FT		
R.P.M.		1760	Pull-up Torque		53.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		73.2 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		108 A
Service Factor (S.F.)		1.15	No-load Current		6.19 A		
NEMA Nom. Eff.		92.4	Power Factor	85	Line-line Res. @ 25°C		0.62 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps				Temp. Rise @ S.F. Load		62°C	
				Locked-rotor Power Factor		32.7	
				Rotor inertia		1.92 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	73	84	86	87	88	87
Efficiency	89.4	92.6	93	92.5	91.4	90.3	91.9
Speed	1792	1783	1773	1763	1752	1739	1756
Line amperes	7.44	10.3	13.5	17.6	22	26.6	20.2

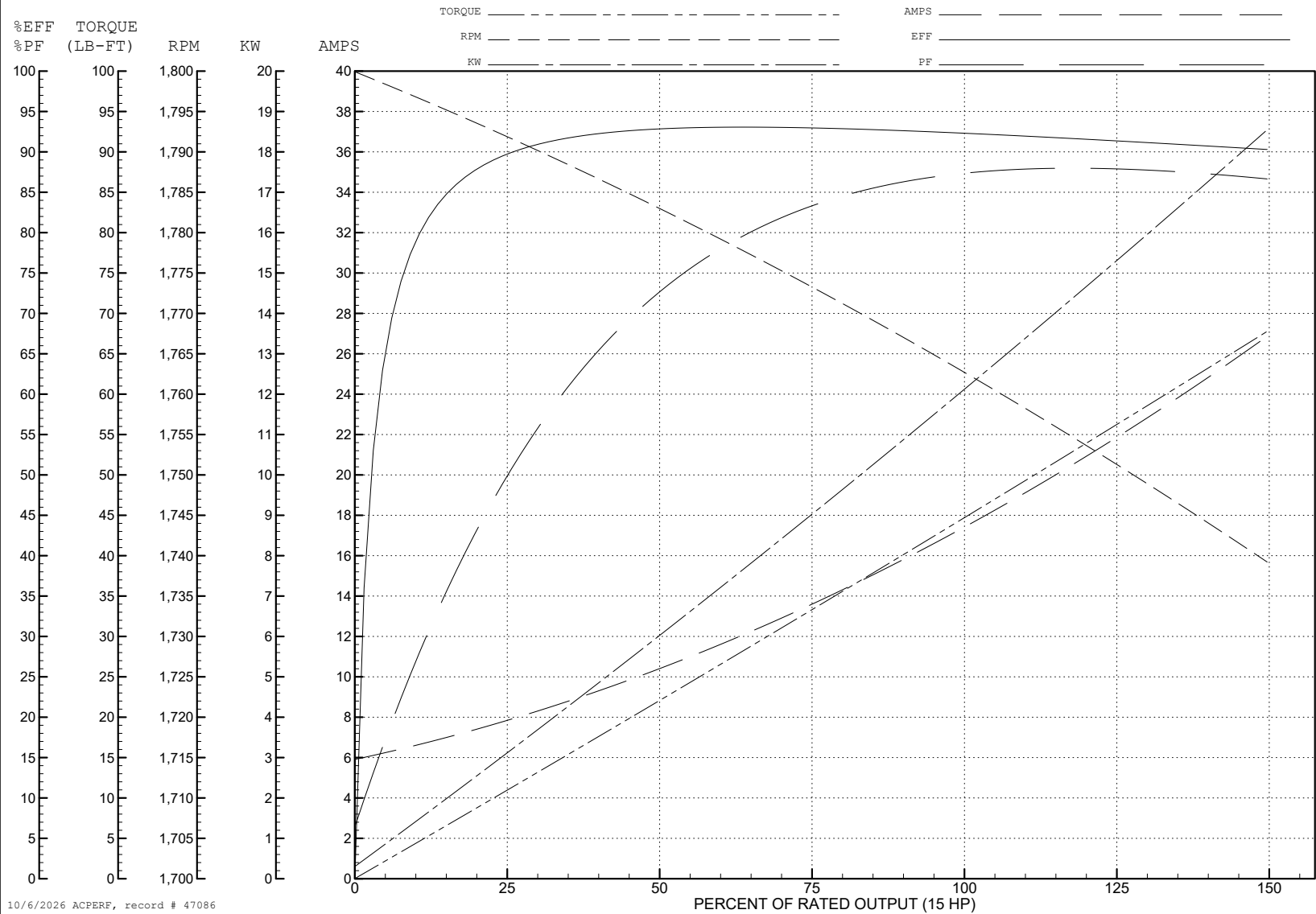
ABB Motors and Mechanical Inc.

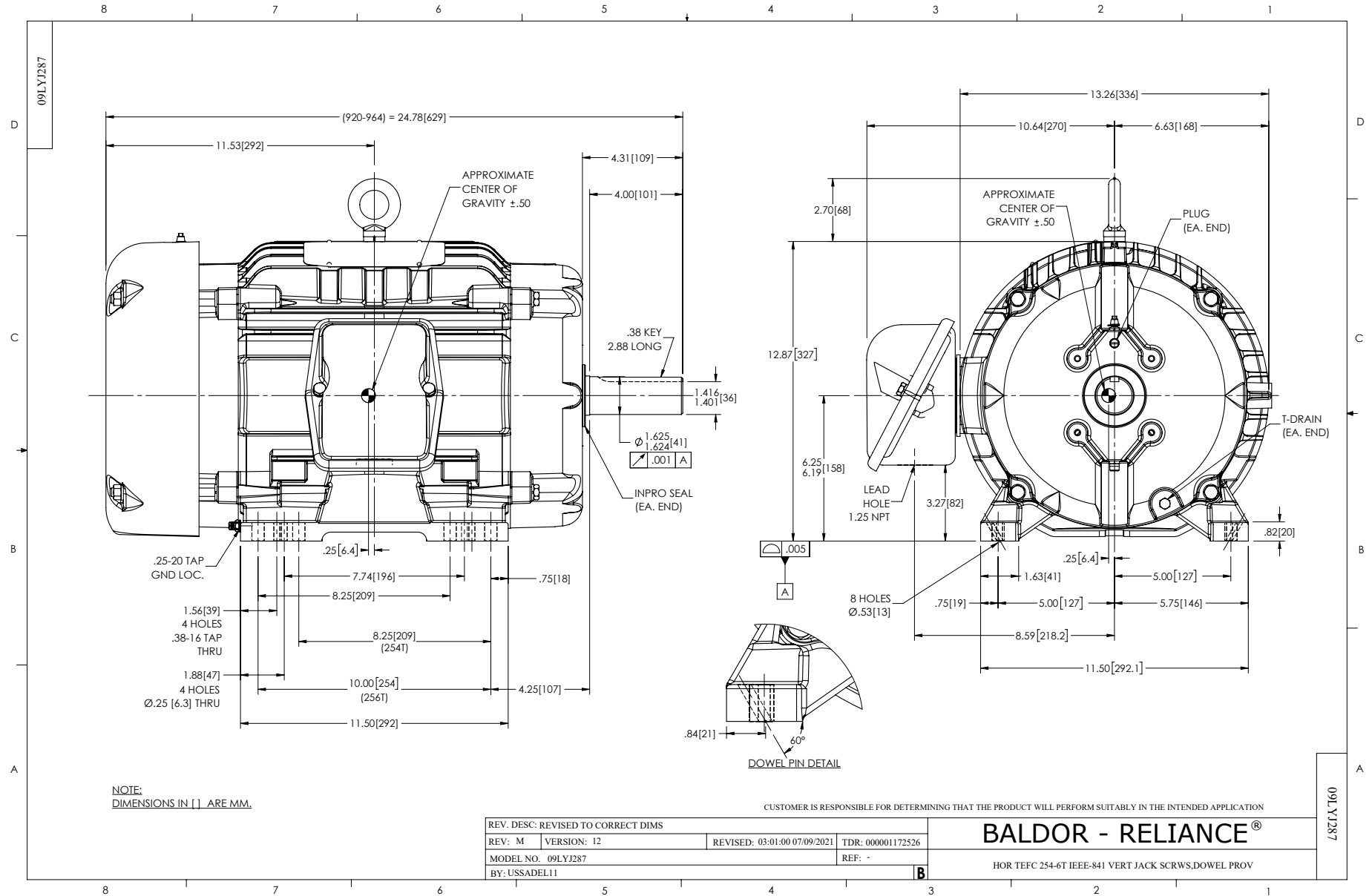
WINDING # 09WZ997

Typical performance - not guaranteed values.

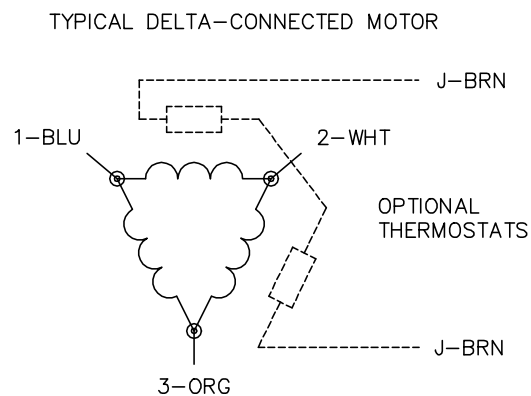
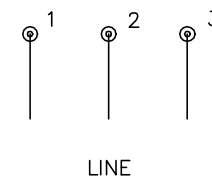
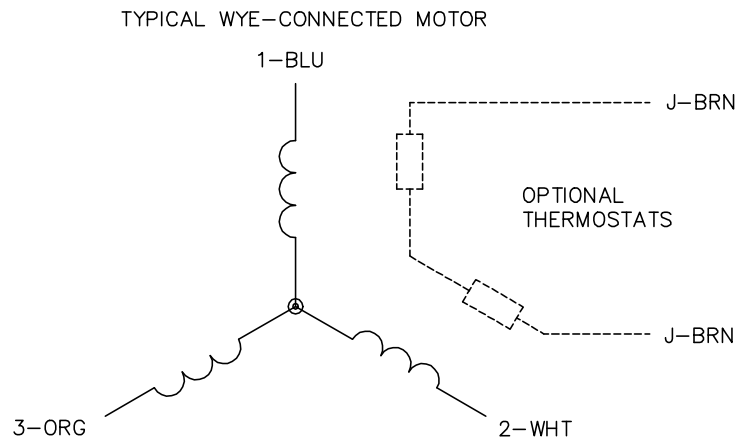
15 HP 3 PH 60 HZ 1760 RPM 460 V 0944M

TORQUES (LB-FT): PO=163 PU=53.3 LR=73.2 LRA=108





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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