

ABB BALDOR RELIANCE III

Customer information packet

ECP82394T-5

15HP, 3525RPM, 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	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	6
Current @ Voltage	13.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT162
Layout	09LYJ286
Eff. date	11-14-2023
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	11-27-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	13.7 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	5400 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0934M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.78 IN
Power Factor	88
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	3525 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.	ECP82394T-5			P/N			ENCLOSURE			TEFC				
SPEC.	09-0000-0865			CC	010A	FRAME	254T		S/N					
HP	15			CLASS	F	HZ	60	ODE BRG	6309	DE BRG	6309			
RPM	3525	RPM MAX	5400	PH	3	DES	B	D.E. BRG.		45BC03X30X				
VOLT	575			KVA-CODE		G	O.D.E. BRG.		45BC03X30X					
AMP	13.7			MOTOR WEIGHT			303	GREASE	POLYREX EM					
RATING	40C AMB-CONT			MAX. KVAR			2.5	BLANK						
NEMA-NOM-EFF	91	# OF ROTOR BARS			28	SER.F.	1.15	IP	56					
G.MIN.EFF	89.5	# OF STATOR SLOTS			36	PF	88	INV.TYPE	PWM					
TEMP CODE	T3C	INVERTER-TEMP-CODE			180									
TEMP =	160	C HP FR	60	C HP TO	90									
CT HZ FROM	6	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 # 48799

Typical performance - not guaranteed values

Winding: 09WGT162-R001				Type: 0934M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15		Full Load Torque		22.3 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		13.7		Breakdown Torque		93.7 LB-FT	
R.P.M.		3525		Pull-up Torque		30 LB-FT	
Hz		60 Phase		Locked-rotor Torque		37.2 LB-FT	
NEMA Design Code		B KVA Code		Starting Current		92.9 A	
Service Factor (S.F.)		1.15		No-load Current		4.15 A	
NEMA Nom. Eff.		91.7 Power Factor		Line-line Res. @ 25°C		0.994 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps				Temp. Rise @ S.F. Load		72°C	
				Locked-rotor Power Factor		29	
				Rotor inertia		0.868 lb-ft²	

Load Characteristics 575 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	80	87	89	90	90	90
Efficiency	86.8	90.9	92.1	91.9	91.1	90.2	91.4
Speed	3582	3564	3546	3527	3506	3483	3514
Line amperes	5.39	7.71	10.5	13.7	17	20.5	15.7

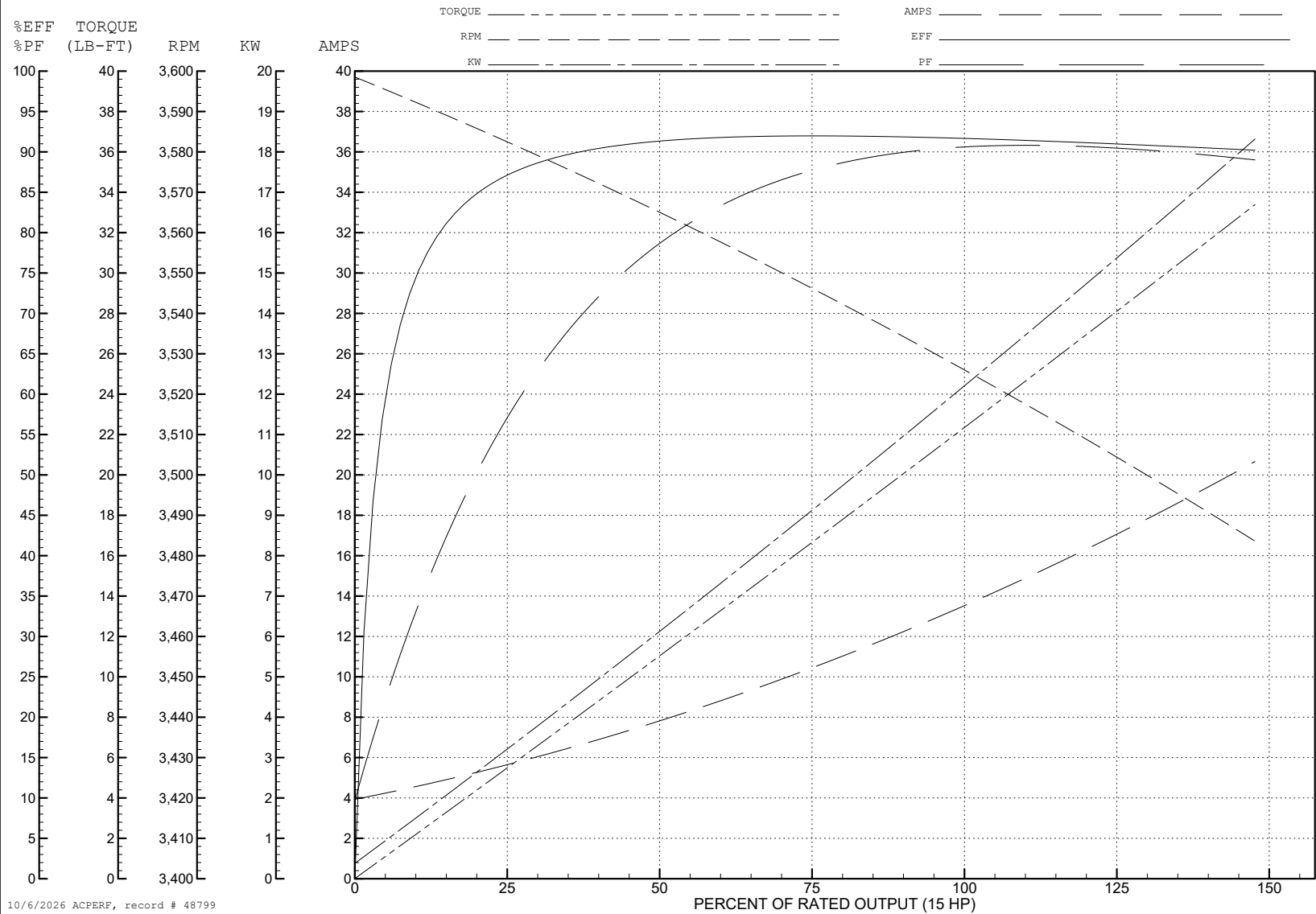
ABB Motors and Mechanical Inc.

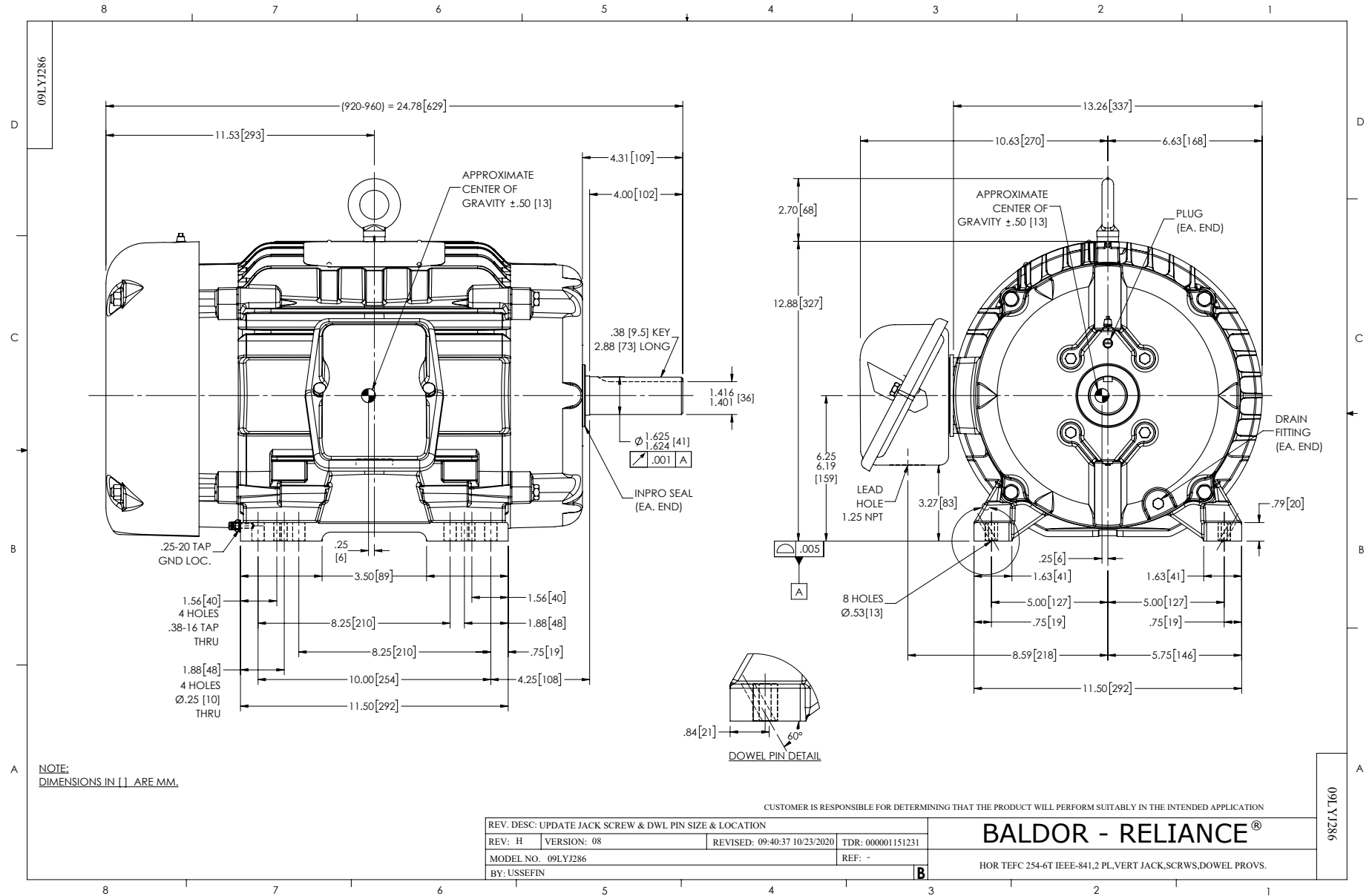
WINDING # 09WGT162

Typical performance - not guaranteed values.

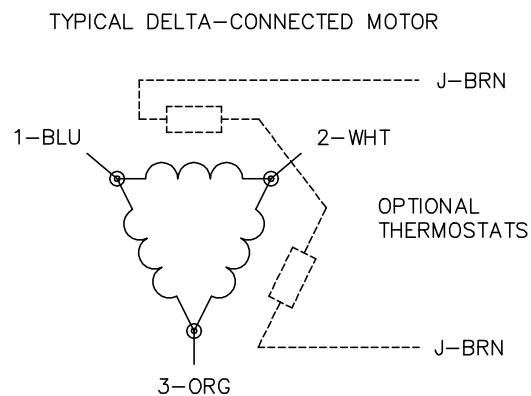
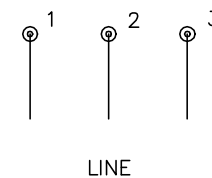
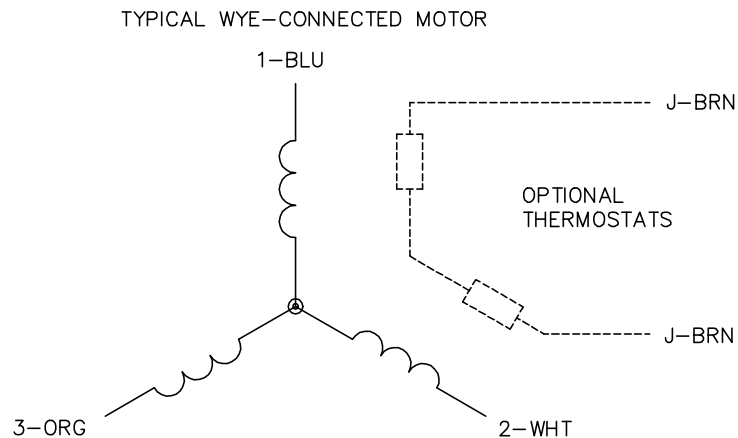
15 HP 3 PH 60 HZ 3525 RPM 575 V 0934M

TORQUES (LB-FT): PO=93.7 PU=30 LR=37.2 LRA=92.9





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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