

ABB BALDOR RELIANCE III

Customer information packet

ECP82334T-5

20HP, 1760RPM, 3PH, 60HZ, 256T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	256T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	1.3
Current @ Voltage	18.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C

Part Detail

Revision	V
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT460
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	18.3 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	0964M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.78 IN
Power Factor	87
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.	ECP82334T-5			P/N			ENCLOSURE			TEFC				
SPEC.	09-0000-0868			CC	010A	FRAME	256T		S/N					
HP	20			CLASS	F	HZ	60	ODE BRG	6309	DE BRG	6309			
RPM	1760	RPM MAX	2700	PH	3	DES	B	D.E. BRG.	45BC03X30X					
VOLT	575			KVA-CODE	G		O.D.E. BRG.		45BC03X30X					
AMP	18.3			MOTOR WEIGHT			361	GREASE	POLYREX EM					
RATING	40C AMB-CONT			MAX. KVAR			3.6	BLANK						
NEMA-NOM-EFF	93	# OF ROTOR BARS			40	SER.F.	1.15	IP	56					
G.MIN.EFF	91.7	# OF STATOR SLOTS			48	PF	87	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	0-	VT HZ TO	60

AC Induction Motor Performance Data

Record # 65537

Typical performance - not guaranteed values

Winding: 09WGT460-R001			Type: 0964M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		20	Full Load Torque		59.57 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		18.3	Breakdown Torque		181 LB-FT	
R.P.M.		1760	Pull-up Torque		92.68 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	113 LB-FT	
NEMA Design Code	B	KVA Code	G	Starting Current	123 A	
Service Factor (S.F.)		1.15	No-load Current		5.49 A	
NEMA Nom. Eff.	93	Power Factor	87	Line-line Res. @ 25°C	0.632 Ω	
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load	60°C	
S.F. Amps				Temp. Rise @ S.F. Load	75°C	
				Locked-rotor Power Factor	29.3	
				Rotor inertia	2.81 lb-ft²	

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	78	85	88	88	88	88
Efficiency	91.5	93.8	93.9	93.2	92.2	90.9	92.4
Speed	1792	1783	1774	1764	1753	1739	1755
Line amperes	7.06	10.17	14.04	18.31	22.96	28.15	21.2

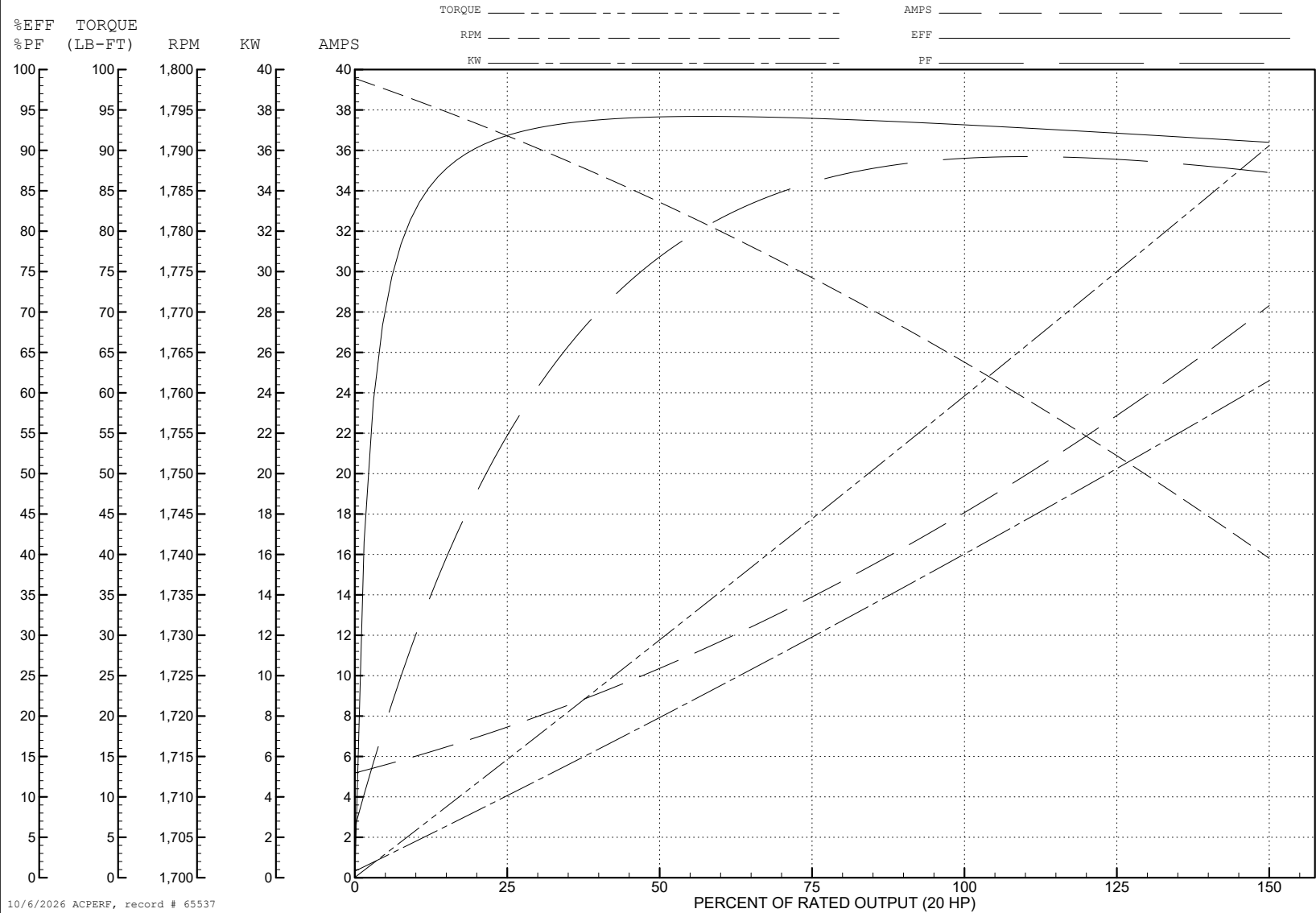
ABB Motors and Mechanical Inc.

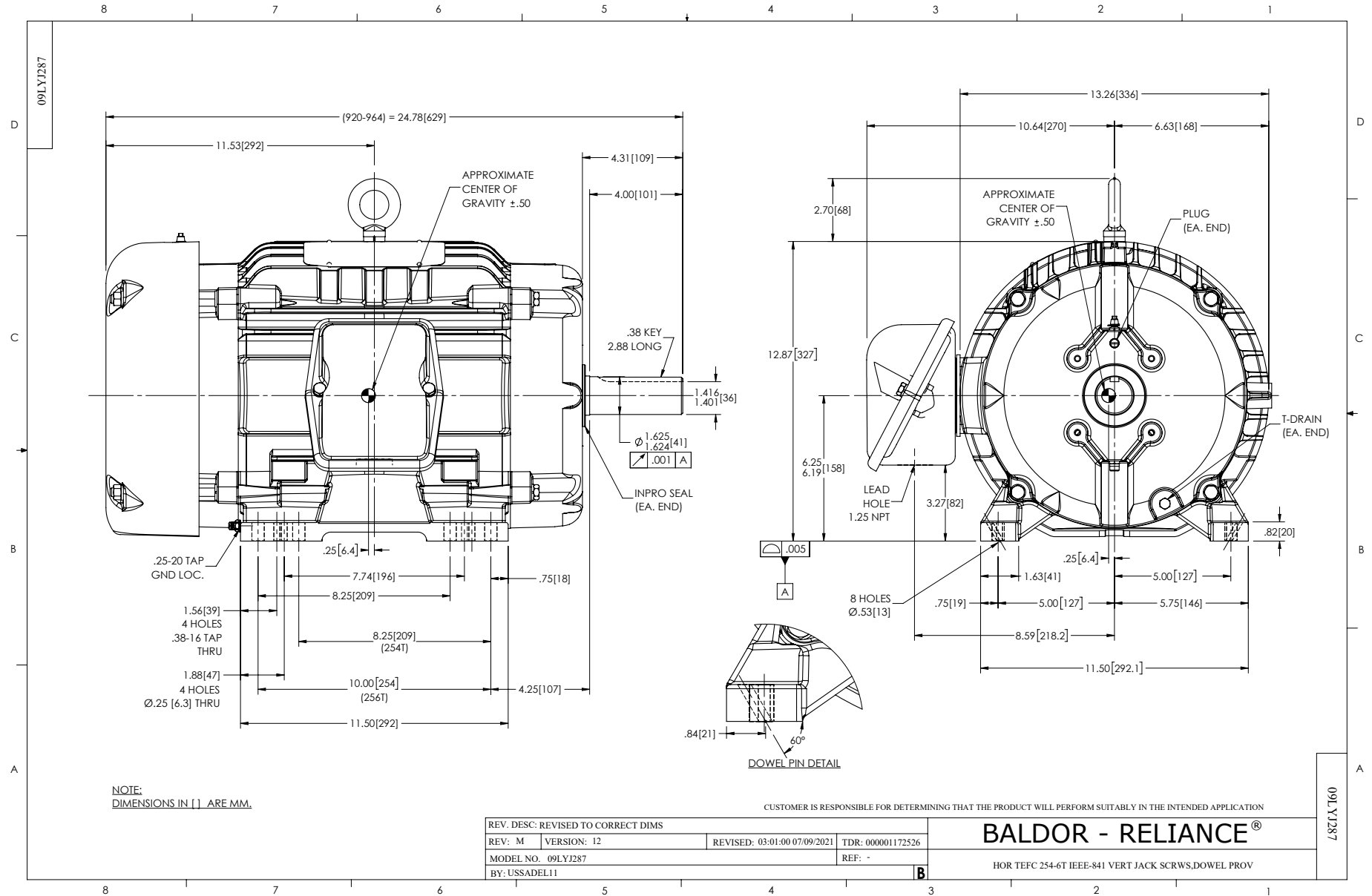
WINDING # 09WGT460

Typical performance - not guaranteed values.

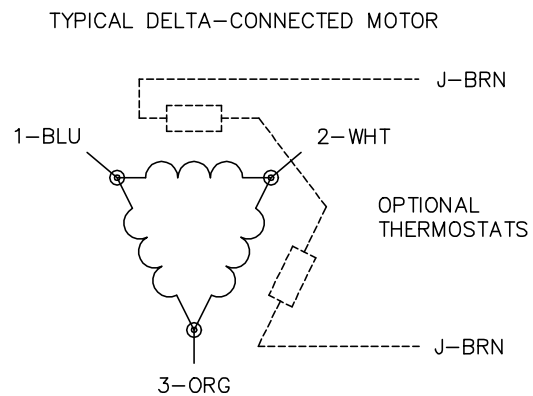
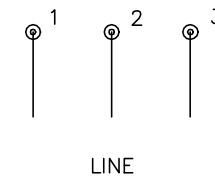
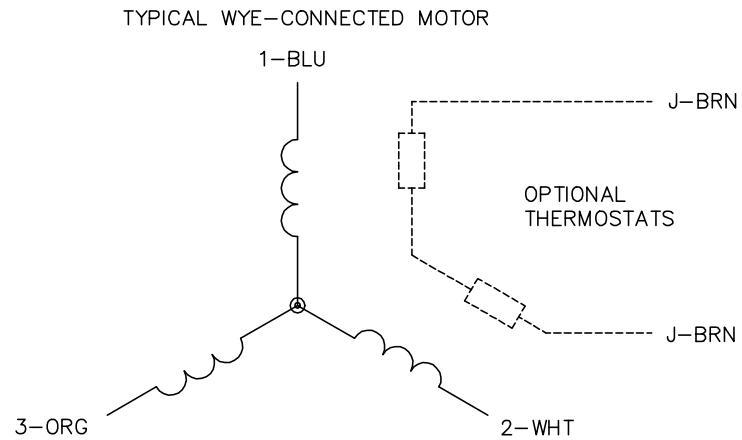
20 HP 3 PH 60 HZ 1760 RPM 575 V 0964M

TORQUES (LB-FT): PO=181 PU=92.68 LR=113 LRA=123





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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