ABB BALDOR RELIANCE

Customer information packet

ECP82334T-4

20HP, 1760RPM, 3PH, 60HZ, 256T, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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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	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	23.000 A @ 460.0 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.	09WGT417
Layout	09LYJ287
Eff. date	03-20-2025
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	11-27-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 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-4			**P/N**				**ENCLOSURE**	TEFC			
SPEC.	09-0000-0862		**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	460			**KVA-CODE**	G			**O.D.E. BRG.**	45BC03X30X			
AMP	23			**MOTOR WEIGHT**	333	**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 # 72858
Typical performance - not guaranteed values

Winding: 09WGT417-R001	**Type:** 0964M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	59.51 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			23	**Breakdown Torque**	185 LB-FT
R.P.M.			1760	**Pull-up Torque**	94.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	115 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	157 A
Service Factor (S.F.)			1.15	**No-load Current**	7 A
NEMA Nom. Eff.	93	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.41873 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	60°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	29.4

Load Characteristics 460 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	91.4	93.8	93.9	93.3	92.3	91	92.7
Speed	1792.1	1783.4	1774.6	1764.6	1754	1740.6	1758
Line amperes	8.93	12.8	17.6	22.9	28.7	35.1	26.4

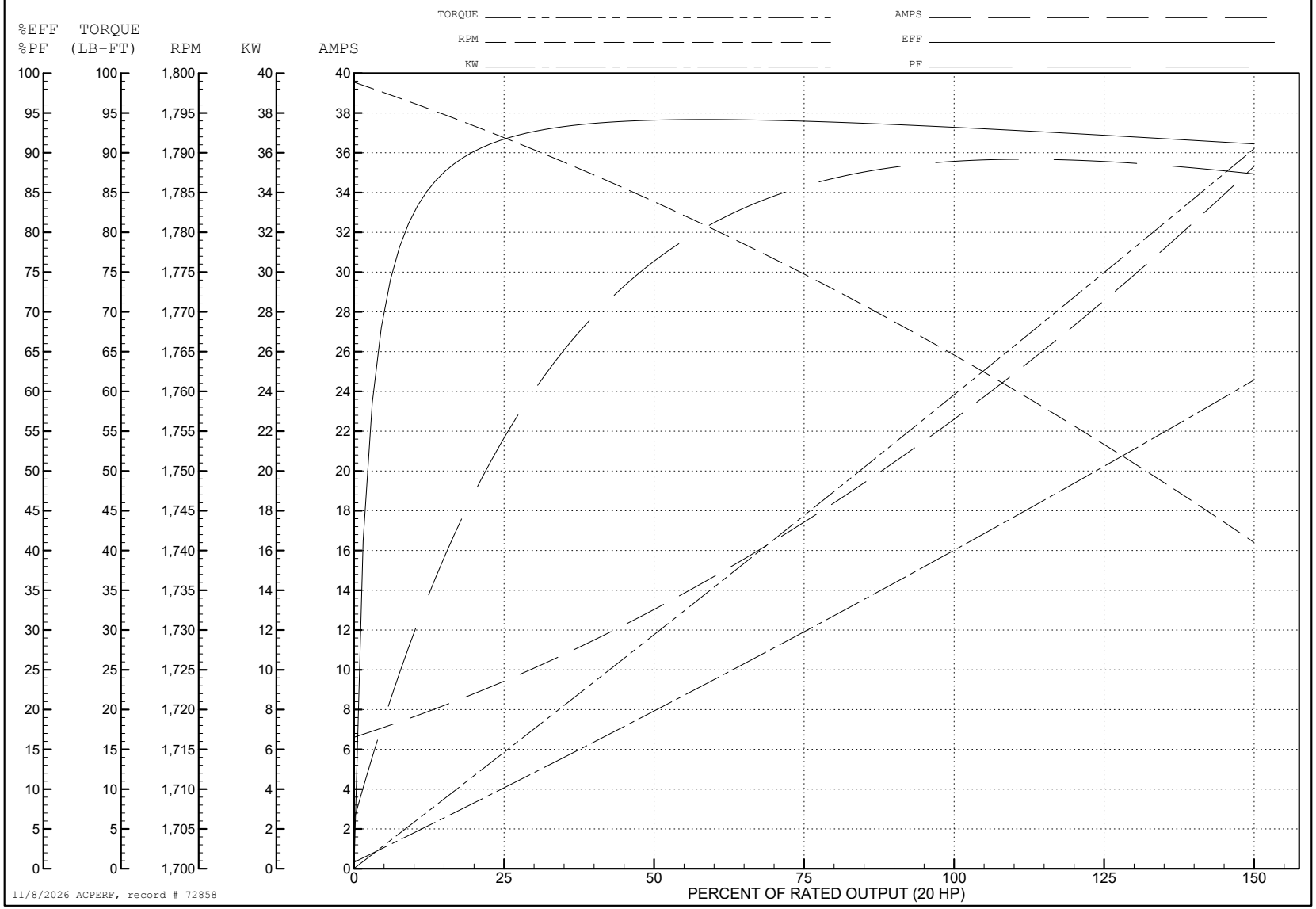
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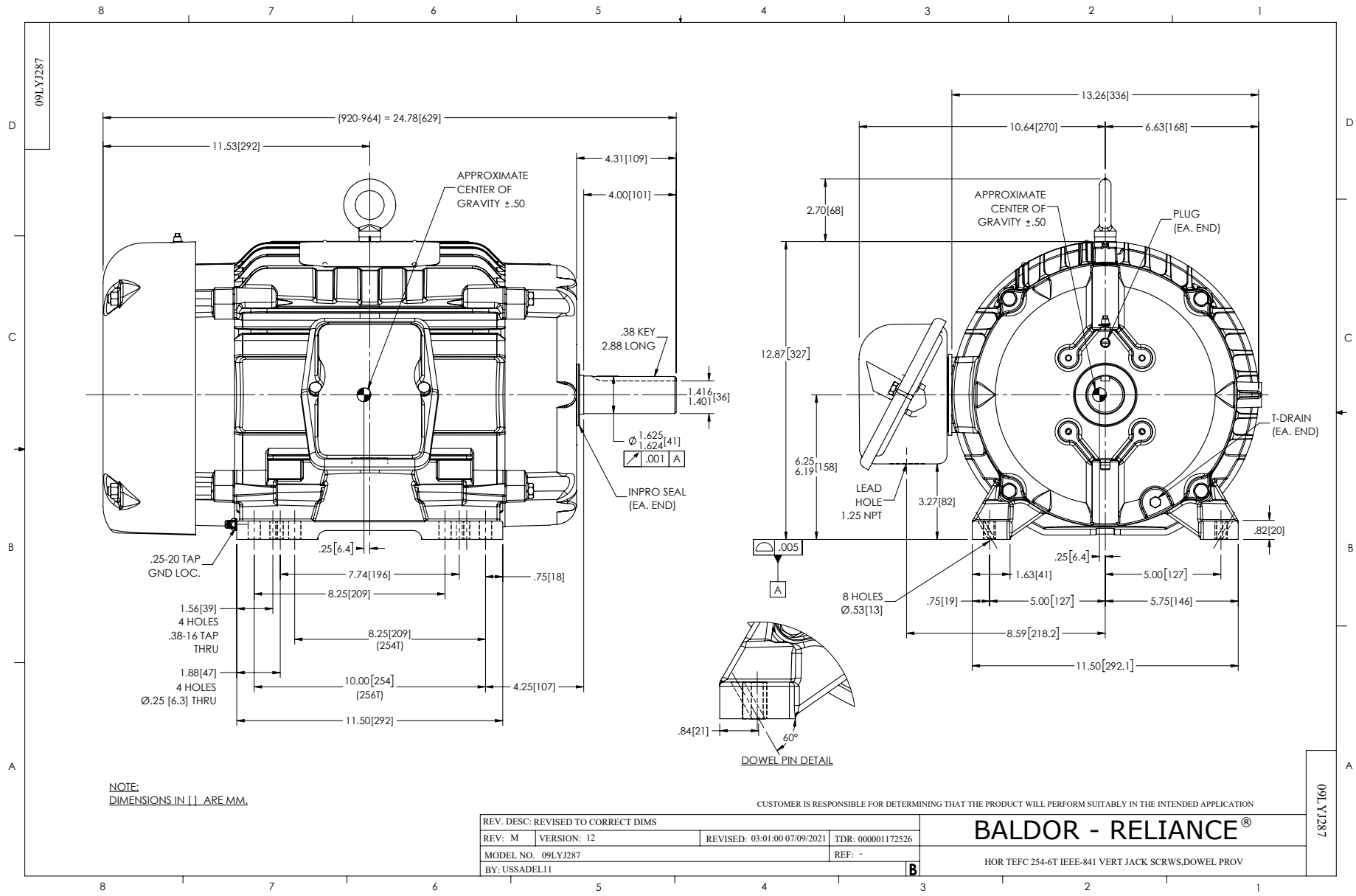
WINDING # 09WGT417

20 HP 3 PH 60 HZ 1760 RPM 460 V 0964M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=185 PU=94.7 LR=115 LRA=157





NOTE:
DIMENSIONS IN [ ] ARE MM.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: REVISED TO CORRECT DIMS			
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MODEL NO. 09LYJ287			REF: -
BY: USSADEL11			B

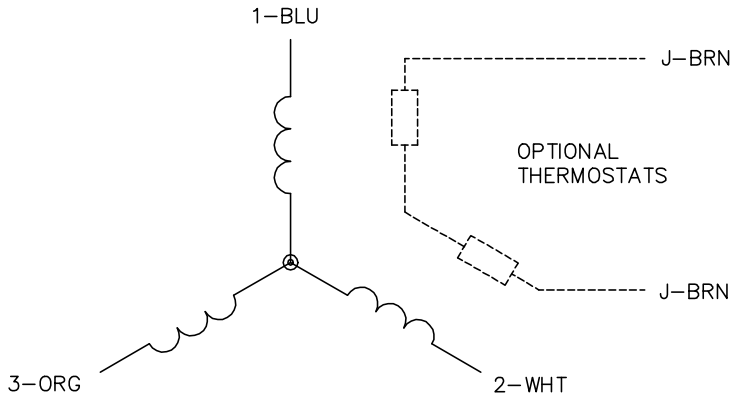
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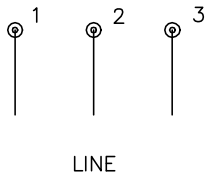
HOR TEFC 254-6T IEEE-841 VERT JACK SCRWS,DOWEL PROV

09LYJ287

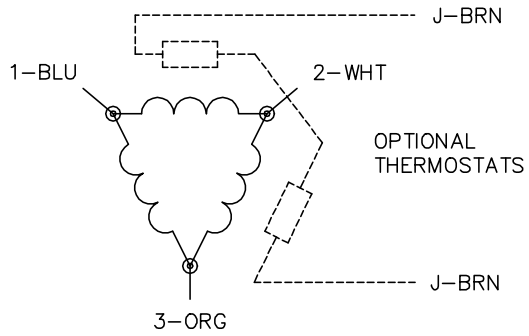
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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