ABB BALDOR RELIANCE

Customer information packet

VEJMM3311T

7.5HP, 1770RPM, 3PH, 60HZ, 213JM, 3734M, ODP, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	ODP
Frame	213JM
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	21.000 A @ 208.0 V
	9.600 A @ 460.0 V
	19.200 A @ 230.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	37N905
Base	
Status	PRD/A
Elec. spec.	37WGS186
Layout	37LYN905
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	07-18-2016

Heater Indicator	No Heater
High Voltage Full Load Amps	9.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.75 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP3553LUA									
CAT.NO.	VEJMM3311T								
SPEC.	37N905S186G1								
HP	7.5								
VOLTS	230/460								
AMPS	19.2/9.6								
RPM	1770								
FRAME	213JM	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	J	**DES**	A	**CLASS**	F		
NEMA NOM. EFF	91.7	**PF**	79						
RATING	40C AMB-CONT								
CC	010A								
ENCL	ODP	**SN**							
DE	6309	**ODE**	6206						
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50Hz 7.5HP 190/380V 23/11.5A								SF1.0

AC Induction Motor Performance Data
Record # 58175
Typical performance - not guaranteed values

Winding: 37WGS186-R014	**Type:** 3734M	**Enclosure:** ODP

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		7.5	**Full Load Torque**	22.4 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		19.2/9.6	**Breakdown Torque**	77.9 LB-FT
R.P.M.		1770	**Pull-up Torque**	38.5 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	46.1 LB-FT
NEMA Design Code	A **KVA Code**	J	**Starting Current**	71.8 A
Service Factor (S.F.)		1.15	**No-load Current**	4.88 A
NEMA Nom. Eff.	91.7 **Power Factor**	79	**Line-line Res. @ 25ºC**	1.41 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps			**Temp. Rise @ S.F. Load**	44°C
			Locked-rotor Power Factor	37.7
			Rotor inertia	0.836 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	61	72	78	81	83	81
Efficiency	85.4	90.4	91.7	91.5	90.7	89.8	91.7
Speed	1792	1785	1778	1769	1760	1749	1767
Line amperes	5.29	6.46	7.98	9.86	11.9	14.1	10.8

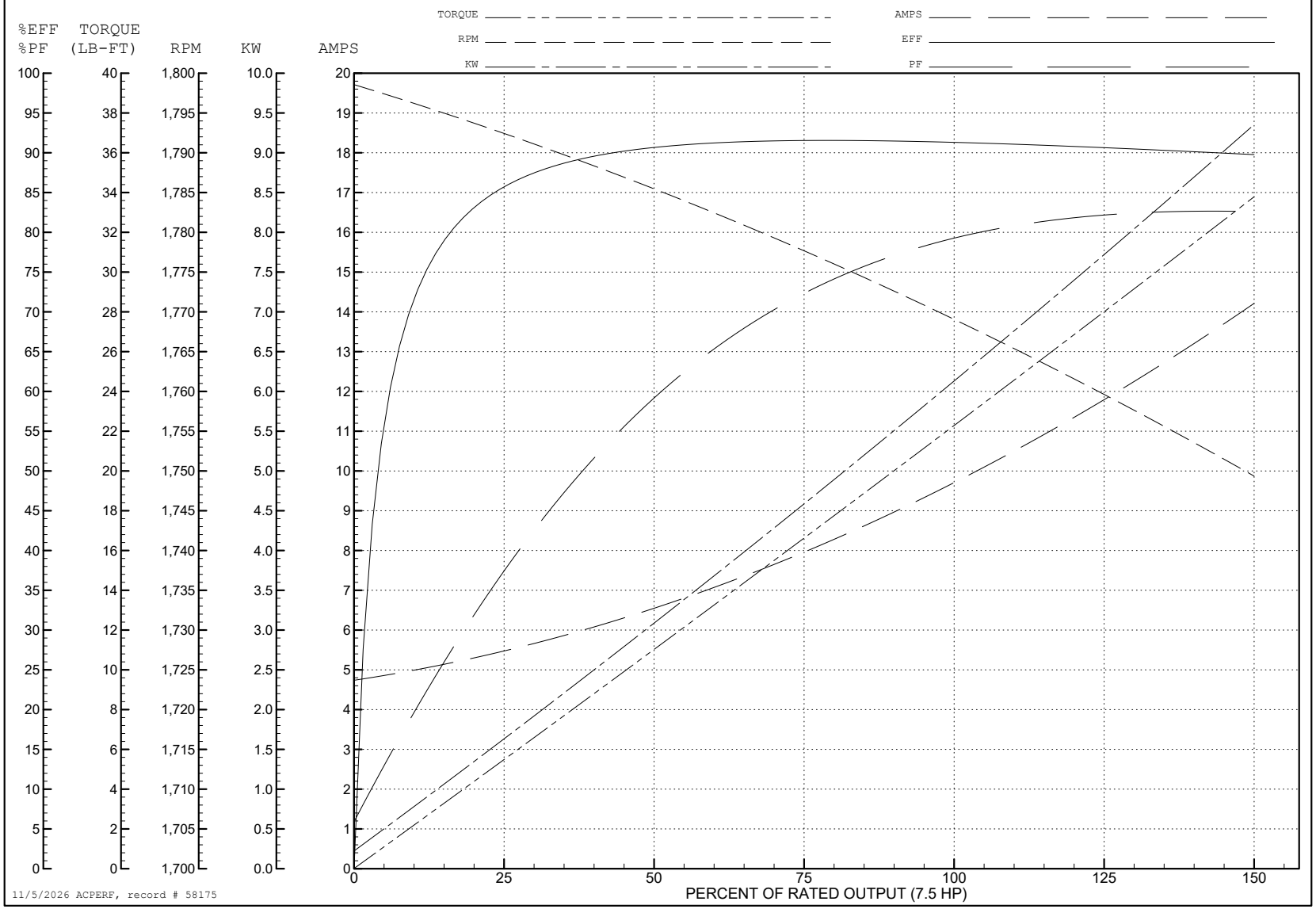
ABB Motors and Mechanical Inc.

WINDING # 37WGS186

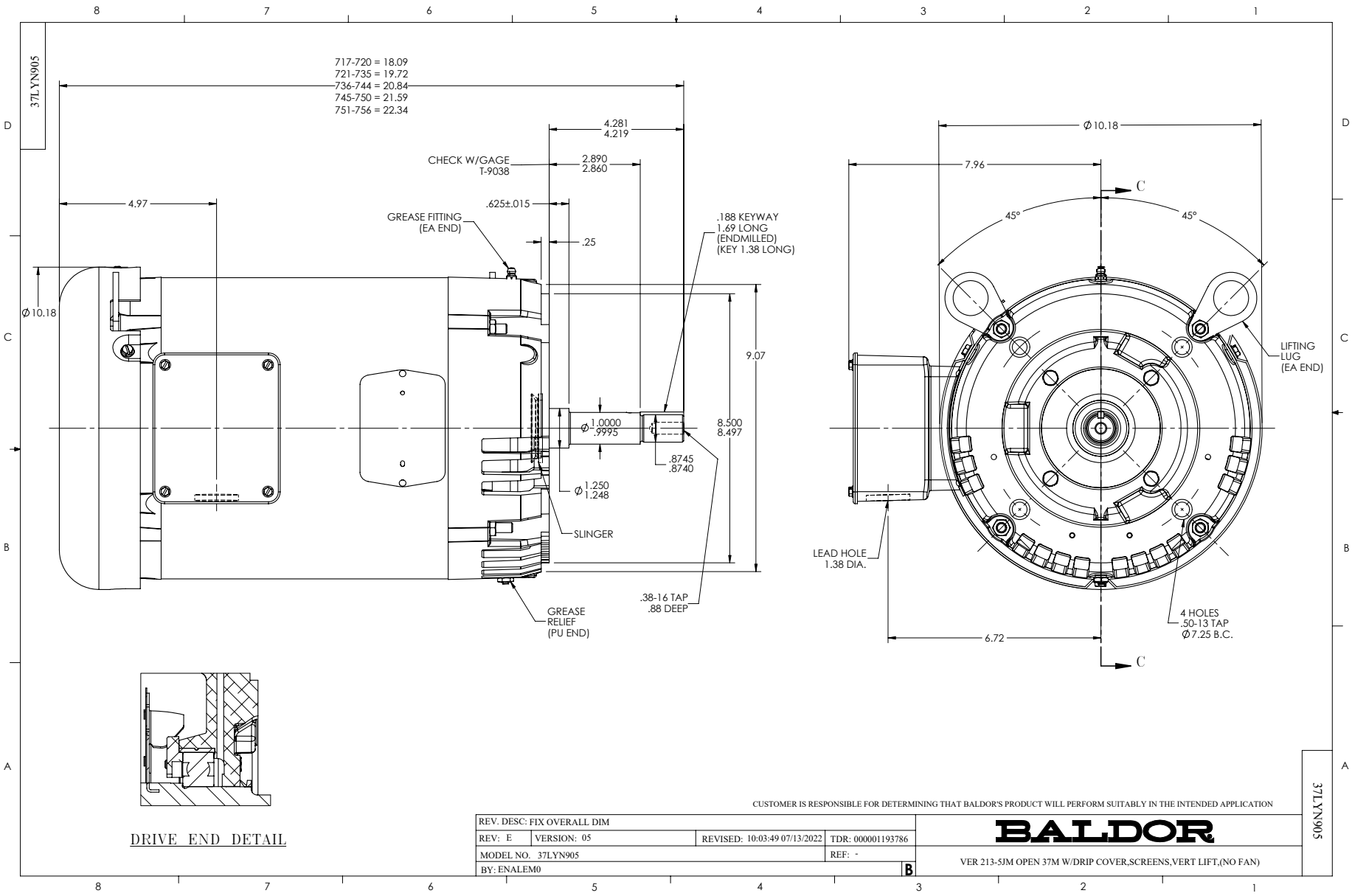
7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3734M

Typical performance - not guaranteed values.

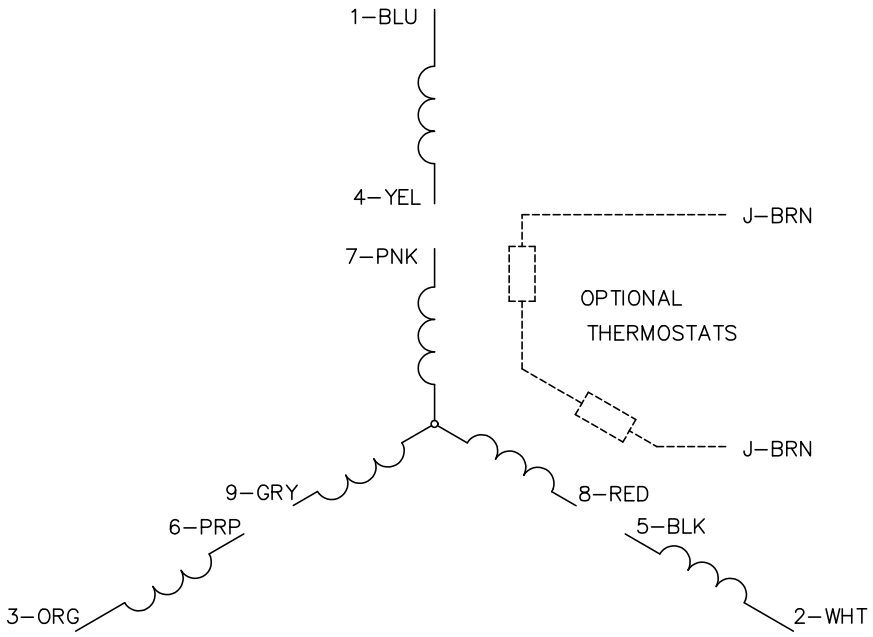
TORQUES(LB-FT): PO=77.9 PU=38.5 LR=46.1 LRA=71.8

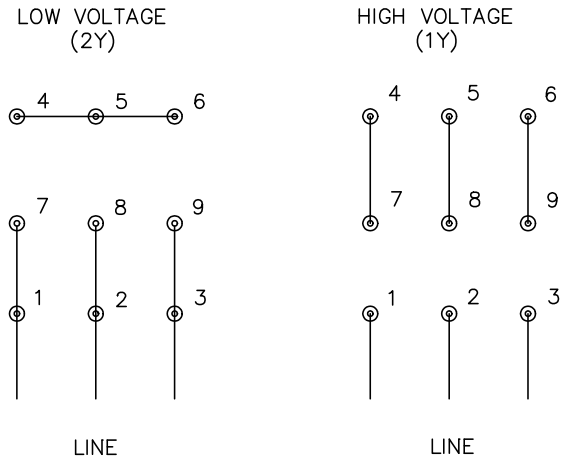


11/5/2026 ACPERF, record # 58175


37LYN905
717-720 = 18.09
721-735 = 19.72
736-744 = 20.84
745-750 = 21.59
751-756 = 22.34
4.281
4.219
CHECK W/GAGE
T-9038
2.890
2.860
4.97
.625±.015
GREASE FITTING
(EA END)
.25
.188 KEYWAY
1.69 LONG
(ENDMILLED)
(KEY 1.38 LONG)
Ø10.18
9.07
Ø 1.0000
.9995
8.500
8.497
.8745
.8740
Ø 1.250
1.248
SLINGER
GREASE
RELIEF
(PU END)
.38-16 TAP
.88 DEEP
Ø10.18
7.96
C
45°
45°
LIFTING
LUG
(EA END)
LEAD HOLE
1.38 DIA.
4 HOLES
.50-13 TAP
Ø7.25 B.C.
6.72
C
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FIX OVERALL DIM
REV: E
VERSION: 05
REVISED: 10:03:49 07/13/2022
TDR: 000001193786
MODEL NO. 37LYN905
REF: -
BY: ENALEM0
B
BALDOR
VER 213-5JM OPEN 37M W/DRIP COVER,SCREENS,VERT LIFT,(NO FAN)
37LYN905

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS