ABB BALDOR RELIANCE

Customer information packet

GNEM3311T-G

7.5HP, 1770//1460RPM, 3PH, 60//50HZ, 213T, 37
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	213T
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 50 HZ
	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CE
	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
Current @ Voltage	22.800 A @ 190.0 V
	9.700 A @ 460.0 V
	20.400 A @ 208.0 V
	19.700 A @ 208.0 V
	19.400 A @ 230.0 V
	11.400 A @ 380.0 V

Part Detail

Revision	M
Type	AC
Mech. spec.	37J839
Base	
Status	PRD/A
Elec. spec.	37WGZ617
Layout	37LYJ839
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-26-2017

Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.7 a
Insulation Class	H
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	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 rpm
	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

	NP4304L								
CAT.NO.	GNEM3311T-G								
SPEC.	37J839Z617G1								
HP	7.5/5.5KW				**PH**	3			
VOLTS	208-230/460//190/380								
AMPS	20.4-19.4/9.7//22.8/11.4								
R.P.M. (1/MIN)	1770//1460				**WT.**	64KG	**KG**		
FRAME	213T	**HZ**	60//50		**I.P.**	23			
SER.F.	1.15	**CODE**	J	**DES.**	B	**CLASS**	H		
NOM.EFF.	91.7//89.6	**% (100%)**							
P.F.	80	IC01, 10:1 VT							
RATING	40C AMB-s1 CONT			**CC**	010A				
DE	6307	**ODE**	6206						
ENCL	OPSB	**SN**							
	IE3-50HZ 91.2(75%),90.4(50%)								
	IE3-60HZ 91.8(75%),90.4(50%)								

AC Induction Motor Performance Data
Record # 62756
Typical performance - not guaranteed values

Winding: 37WGZ617-R002	**Type:** 3738M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			7.5
Volts			208-230/460//190/380
Full Load Amps			20.4-19.4/9.7//22.8/11.4
R.P.M.			1770//1460
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	80
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	27.05 LB-FT
Start Configuration	direct on line
Breakdown Torque	76.52 LB-FT
Pull-up Torque	40.37 LB-FT
Locked-rotor Torque	48.4 LB-FT
Starting Current	71.13 A
No-load Current	4.53 A
Line-line Res. @ 25ºC	1.33 Ω
Temp. Rise @ Rated Load	44°C
Temp. Rise @ S.F. Load	56°C
Locked-rotor Power Factor	37.1
Rotor inertia	0.934 LB-FT2

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	69	79	83	85	85	84
Efficiency	87.8	91	91.6	90.8	89.4	87.7	90
Speed	1492	1484	1475	1465	1455	1441	1459
Line amperes	5.14	6.76	8.84	11.35	14.06	17.08	13

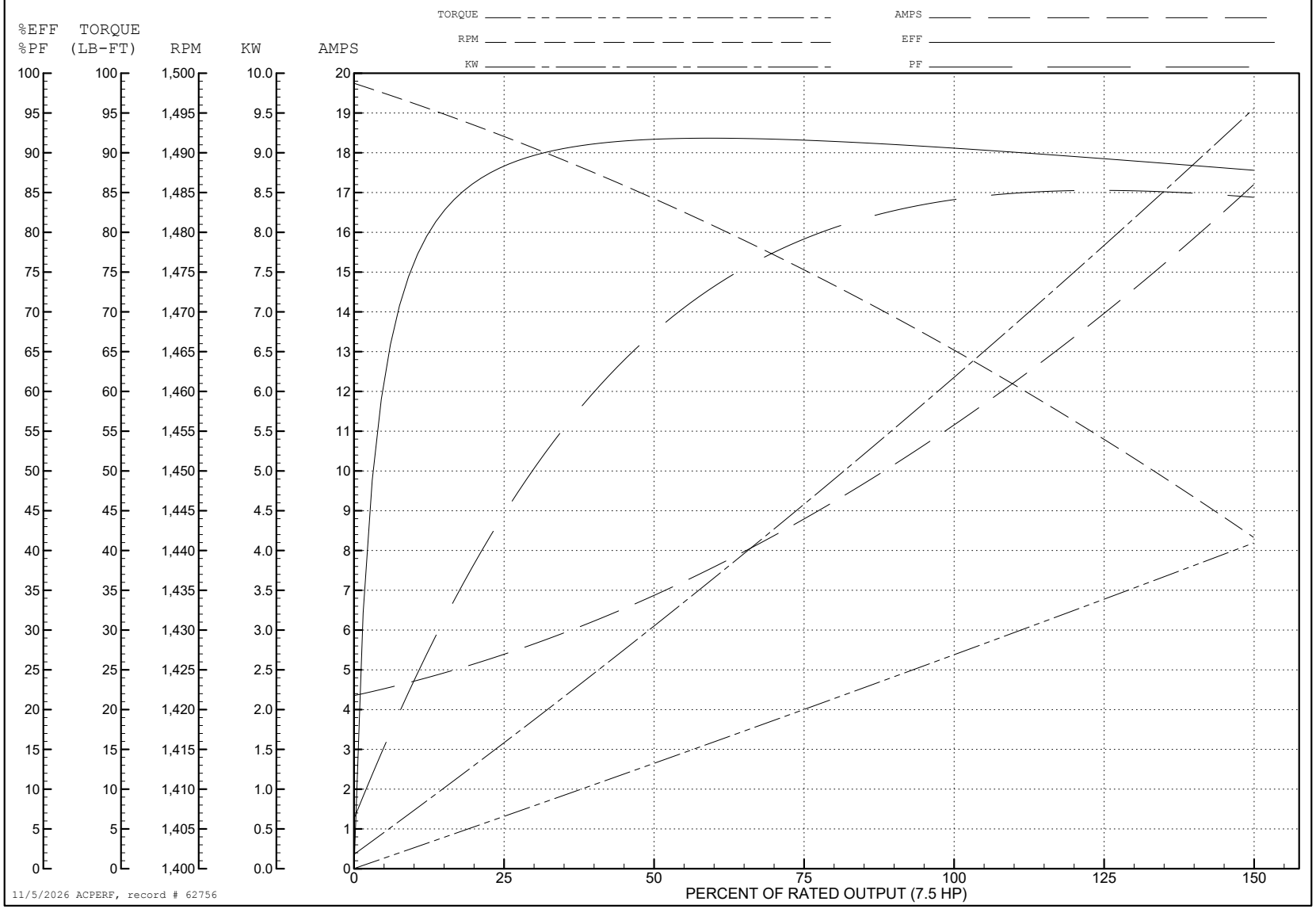
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WINDING # 37WGZ617

7.5 HP 3 PH 50 HZ 1465 RPM 380 V 3738M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=76.52 PU=40.37 LR=48.4 LRA=71.13



AC Induction Motor Performance Data
Record # 95868
Typical performance - not guaranteed values

Winding: 37WGZ617-R002	**Type:** 3738M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	22.4 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			20.4-19.4/9.7//22.8/11.4	**Breakdown Torque**	80.4 LB-FT
R.P.M.			1770//1460	**Pull-up Torque**	39.2 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	47 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	73.5 A
Service Factor (S.F.)			1.15	**No-load Current**	4.63 A
NEMA Nom. Eff.	91.7	**Power Factor**	80	**Line-line Res. @ 25ºC**	1.33 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps				**Temp. Rise @ S.F. Load**	42°C
				Locked-rotor Power Factor	37.1
				Rotor inertia	0.934 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	73	80	82	84	81
Efficiency	86	90	92	92	91	90	91.4
Speed	1793	1786	1779	1770	1762	1752	1765
Line amperes	5.07	6.26	7.81	9.69	11.71	13.92	10.9

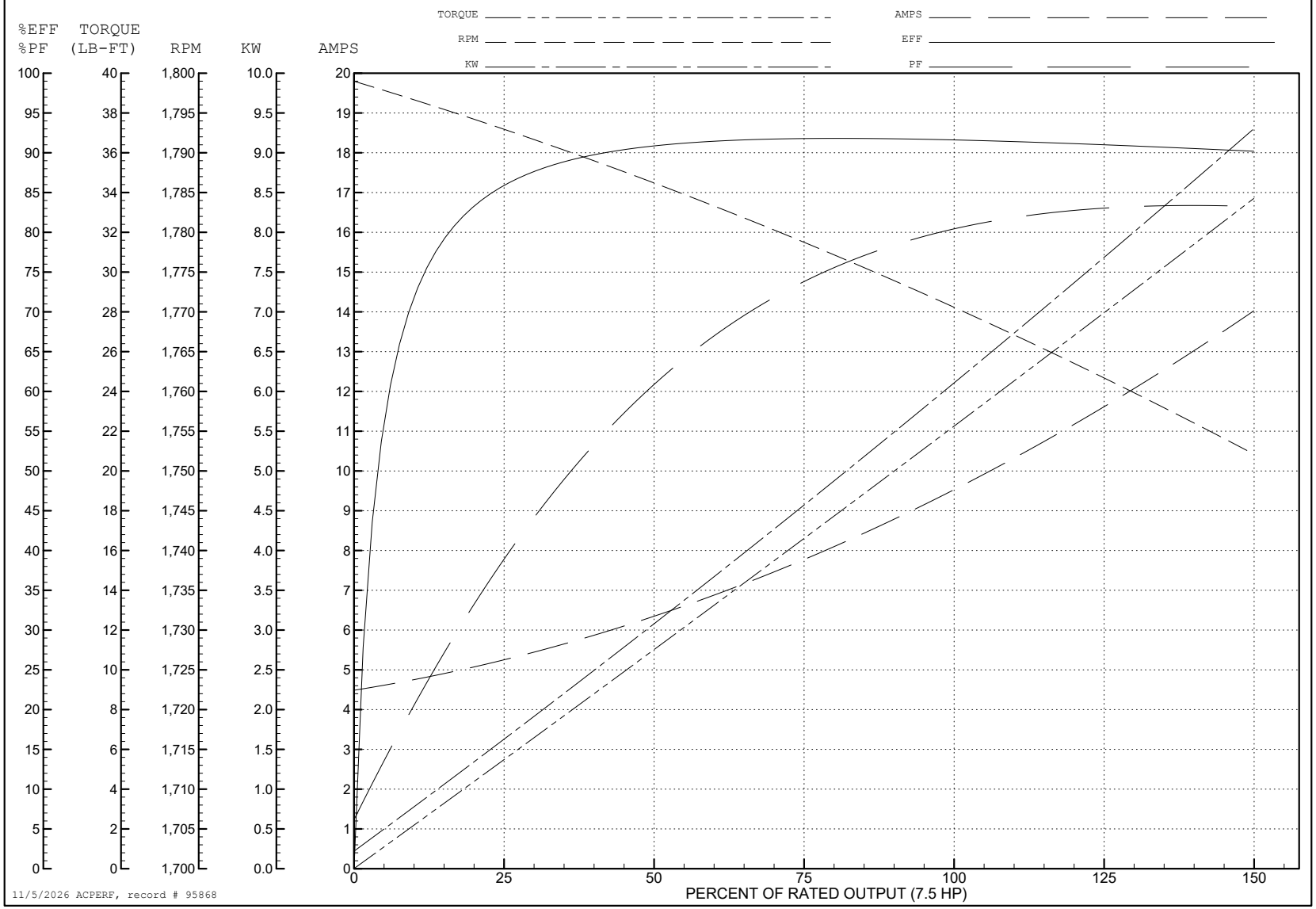
ABB Motors and Mechanical Inc.

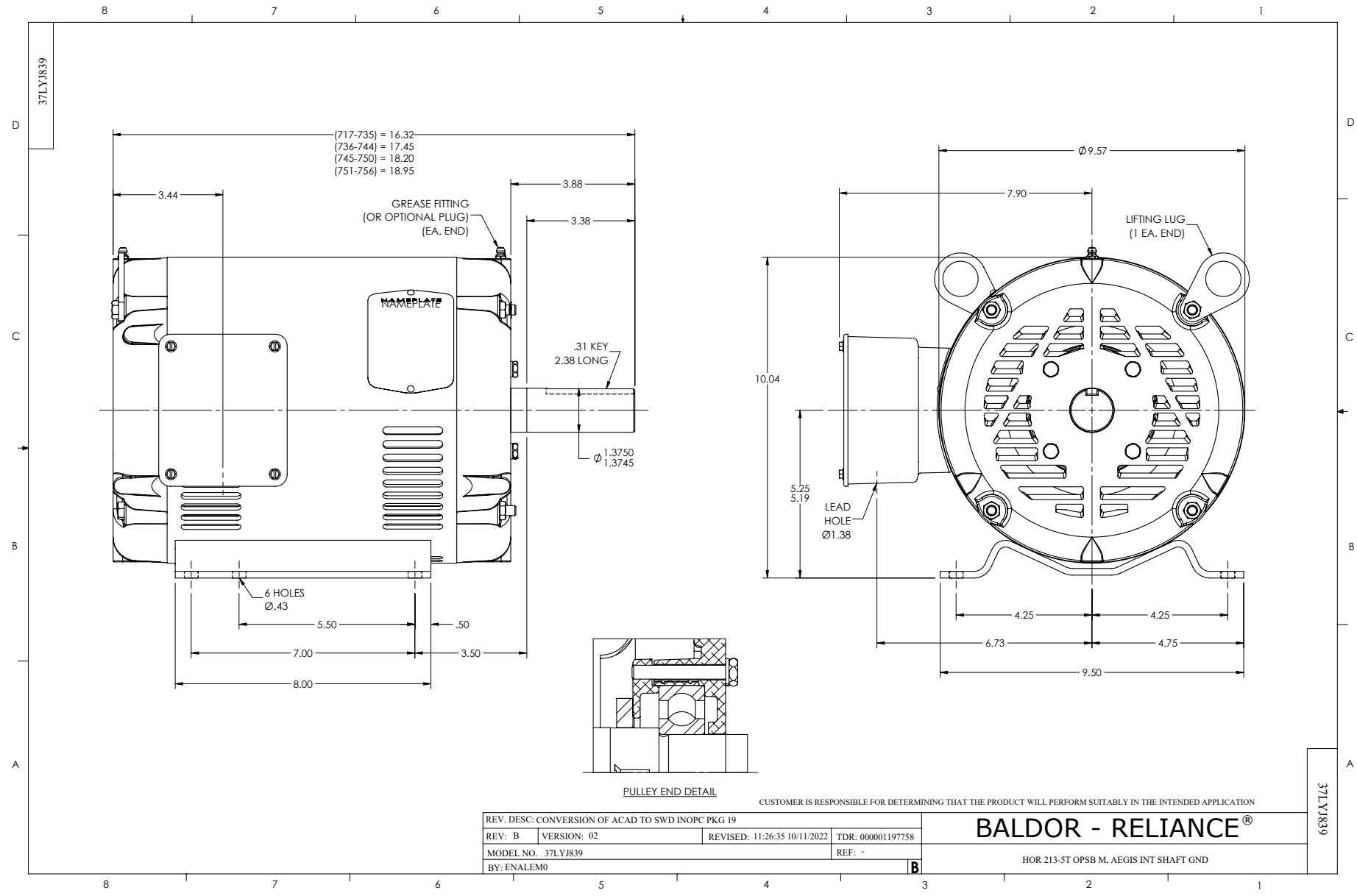
WINDING # 37WGZ617

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3738M

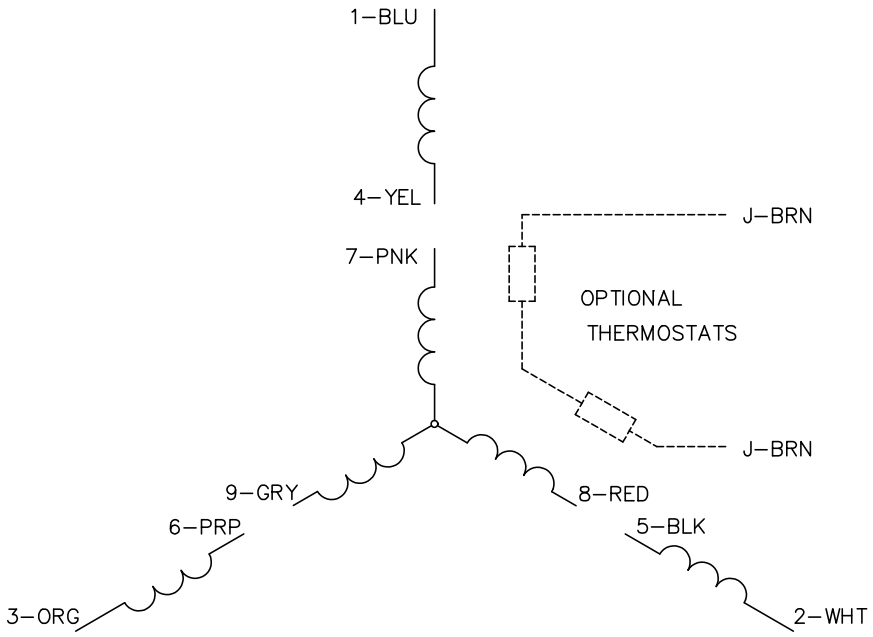
Typical performance - not guaranteed values.

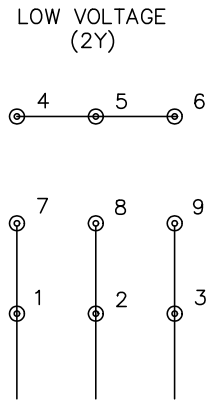
TORQUES(LB-FT): PO=80.4 PU=39.2 LR=47 LRA=73.5

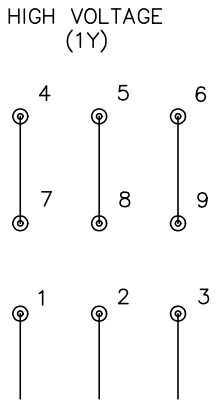



37LYJ839
(717-735) = 16.32
(736-744) = 17.45
(745-750) = 18.20
(751-756) = 18.95
3.44
3.88
3.38
GREASE FITTING
(OR OPTIONAL PLUG)
(EA. END)
NAMEPLATE
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.57
7.90
LIFTING LUG
(1 EA. END)
10.04
5.25
5.19
LEAD
HOLE
Ø1.38
4.25
4.25
6.73
4.75
9.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: B
VERSION: 02
REVISED: 11:26:35 10/11/2022
TDR: 000001197758
MODEL NO. 37LYJ839
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5T OPSB M, AEGIS INT SHAFT GND
37LYJ839

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