

**BALDOR • RELIANCE**

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# Customer information packet

## GNEM3311T-G

7.5HP, 1770//1460RPM, 3PH, 60//50HZ, 213T, 37

Class - None

Division - Not Applicable

## 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
Auxillary Box	No Auxillary Box
Auxillary 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
Design Code	B

## Part detail

Revision	K
Type	AC
Mech. spec.	37J839
Base	
Status	PRD/A
Elec. spec.	37WGZ617
Layout	37LYJ839
Eff. date	05-13-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-26-2017

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

<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1460 rpm 1770 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP4304L</b>									
<b>CAT.NO.</b>	GNEM3311T-G								
<b>SPEC.</b>	37J839Z617G1								
<b>HP</b>	7.5/5.5KW				<b>PH</b>	3			
<b>VOLTS</b>	208-230/460//190/380								
<b>AMPS</b>	20.4-19.4/9.7//22.8/11.4								
<b>R.P.M. (1/MIN)</b>	1770//1460				<b>WT.</b>	64KG		<b>KG</b>	
<b>FRAME</b>	213T		<b>HZ</b>	60//50		<b>I.P.</b>	23		
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES.</b>	B	<b>CLASS</b>	H		
<b>NOM.EFF.</b>	91.7//89.6		<b>% (100%)</b>						
<b>P.F.</b>	80	IC01, 10:1 VT							
<b>RATING</b>	40C AMB-s1 CONT				<b>CC</b>	010A			
<b>DE</b>	6307		<b>ODE</b>	6206					
<b>ENCL</b>	OPSB	<b>SN</b>							
	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			
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>			
Rated Output (HP)	7.5		Full Load Torque	27.05 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	76.52 LB-FT		
R.P.M.	1770//1460		Pull-up Torque	40.37 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	48.4 LB-FT	
NEMA Design Code	B		KVA Code	J	Starting Current	71.13 A
Service Factor (S.F.)	1.15		No-load Current	4.53 A		
NEMA Nom. Eff.	91.7	Power Factor	80		Line-line Res. @ 25°C	1.33 Ω
Rating - Duty	40C		AMB-CONT	Temp. Rise @ Rated Load	44°C	
S.F. Amps				Temp. Rise @ S.F. Load	56°C	
				Locked-rotor Power Factor	37.1	
				Rotor inertia	0.934 LB-FT <sup>2</sup>	

**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

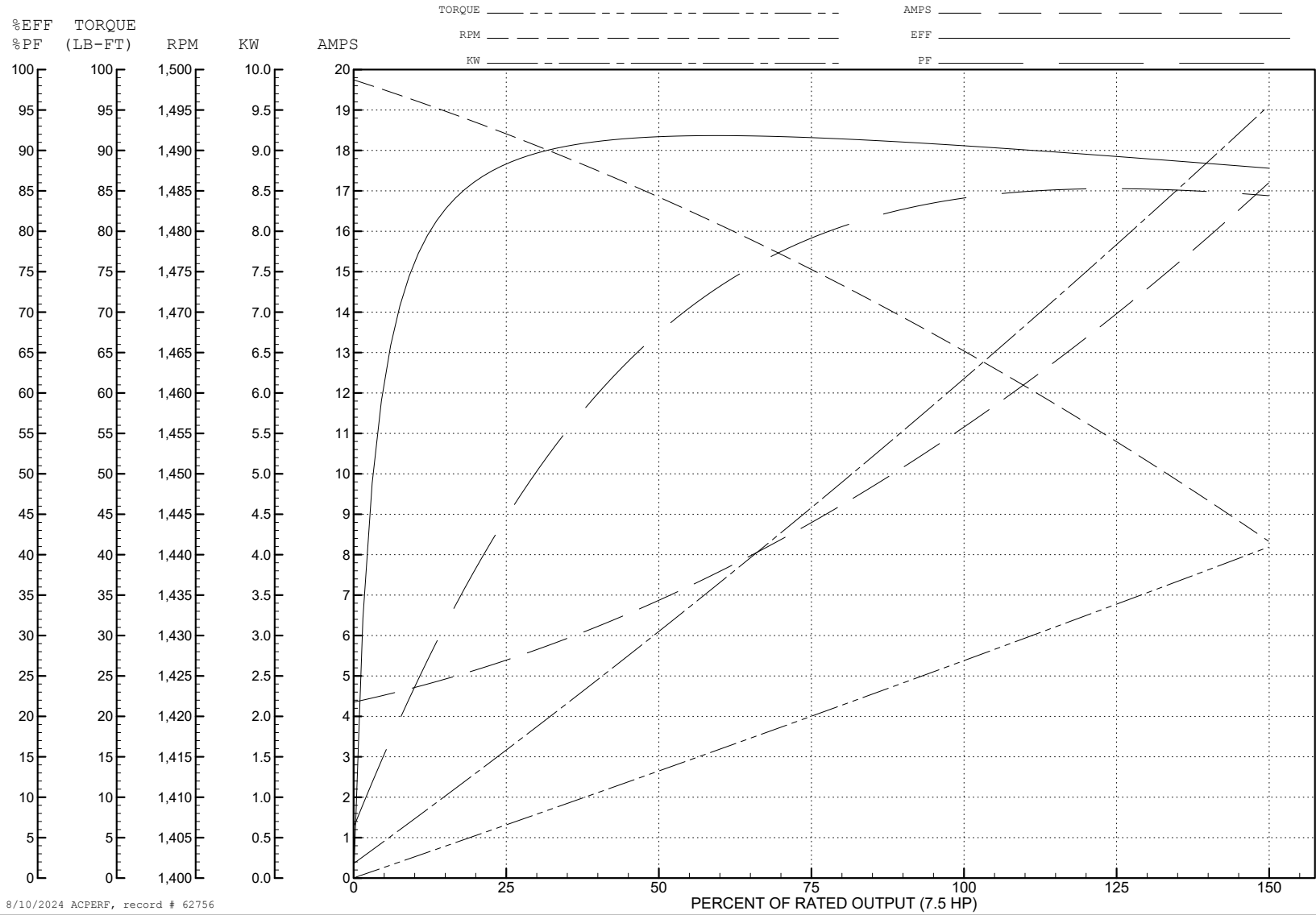
ABB Motors and Mechanical Inc.

WINDING # 37WGZ617

Typical performance - not guaranteed values.

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

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



8/10/2024 ACPERF, record # 62756

**AC Induction Motor Performance Data**

Record # 95868

Typical performance - not guaranteed values

Winding: 37WGZ617-R002		Type: 3738M	Enclosure: OPSB	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
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. @ 25°C	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-ft <sup>2</sup>

**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



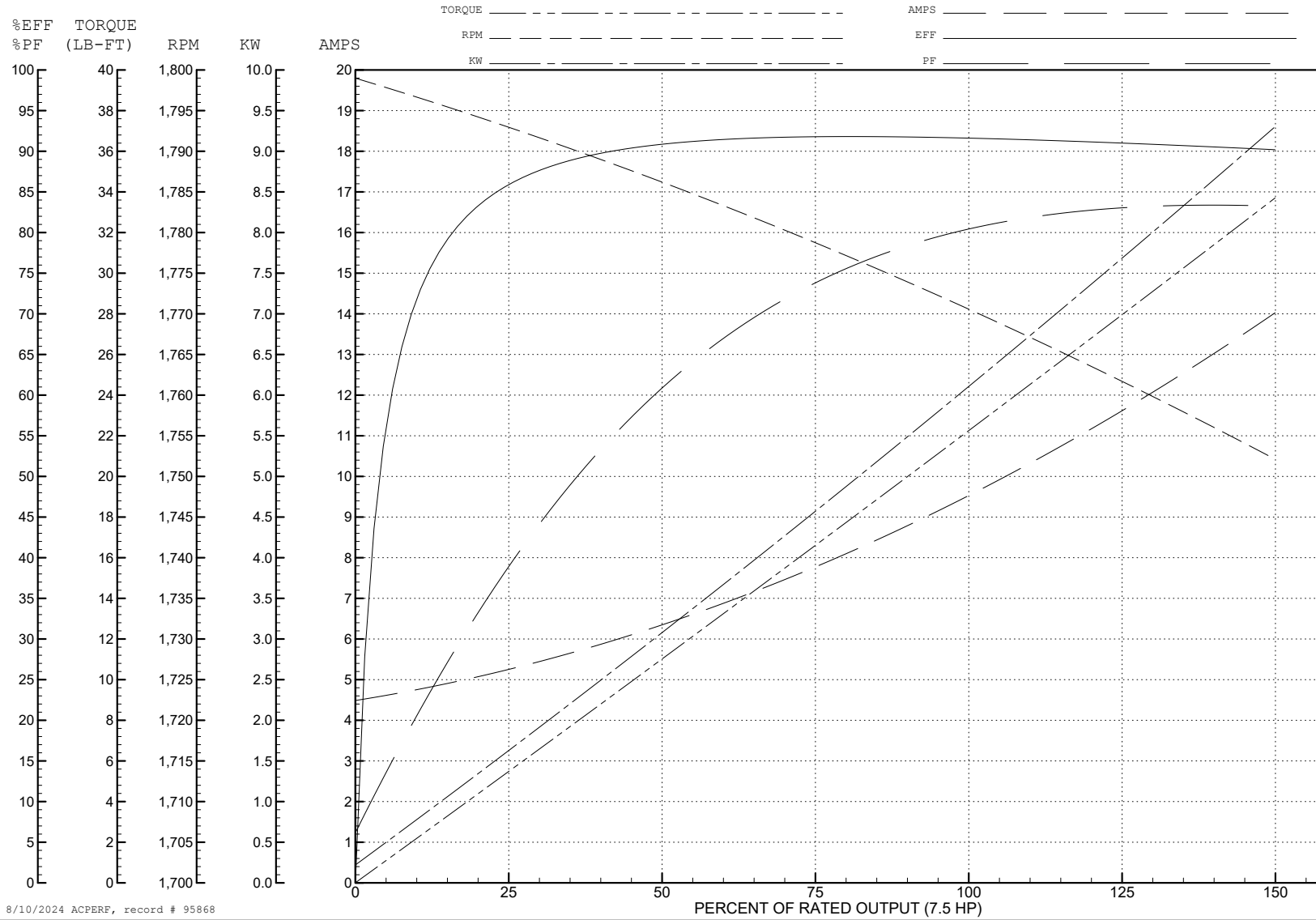
ABB Motors and Mechanical Inc.

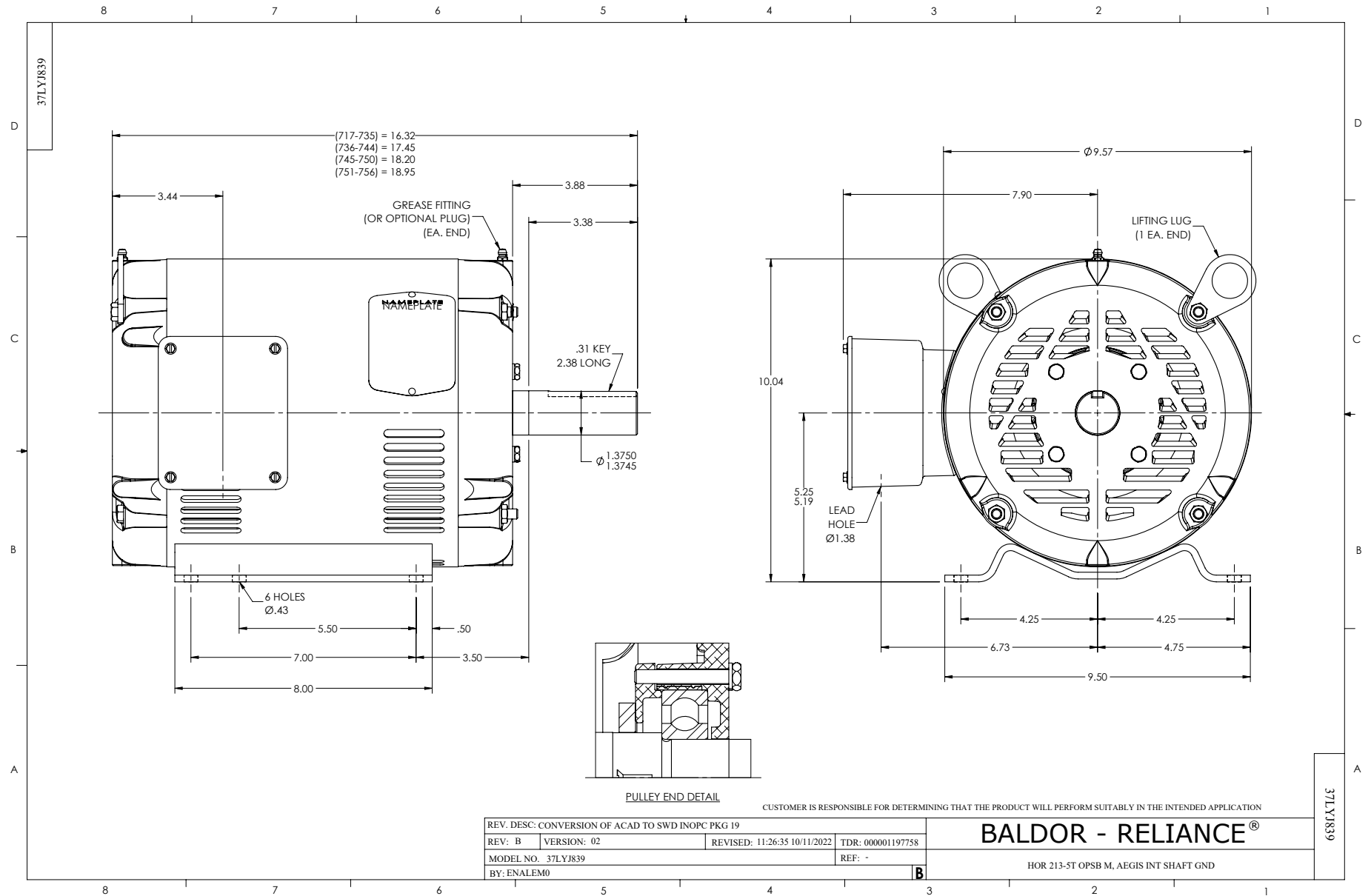
WINDING # 37WGZ617

Typical performance - not guaranteed values.

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

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

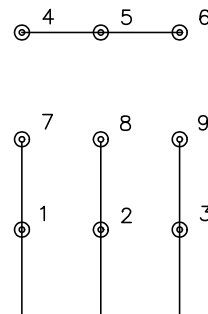




CD0005

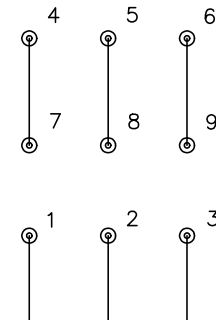


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS