BALDOR • RELIANCE

Customer information packet

GNEM3313T-G

10HP//7.5KW, 1770//1470 1/MINRPM, 3PH, 60//
Class - None
Division - Not Applicable

2/19/2025 6:10:54 AM

Specifications

Enclosure	OPSB
Frame	215T
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	10.000 HP @ 60 HZ
	7.500 KW @ 50 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
	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	WEEE
	UR
	IE3
	CSA
	CE
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	31.600 A @ 190.0 V
	27.600 A @ 208.0 V
	27.400 A @ 230.0 V
	15.800 A @ 380.0 V
	13.700 A @ 460.0 V

Part detail

Revision	E
Type	AC
Mech. spec.	37J839
Base	
Status	PRD/A
Elec. spec.	37WGZ674
Layout	37LYJ839
Eff. date	05-13-2024
CD Diagram	CD0005
Poles	04
Leads	9#14 Y
Proprietary	False
Created date	04-12-2023

Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	13.7 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	75
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 Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1470 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.	GNEM3313T-G										
SPEC.	37J839Z674G1										
HP	10HP//7.5KW					**PH**	3				
VOLTS	208-230/460//190/380										
AMPS	28-26.8/13.4//32/16										
R.P.M. (1/MIN)	1770//1470					**WT.**	65KG	**KG**			
FRAME	215T	**HZ**	60//50			**I.P.**	23				
SER.F.	1.15	**CODE**	L	**DES.**	A	**CLASS**	H				
NOM.EFF.	91.7//90.4	**% (100%)**									
P.F.	76	IC01, 10:1 VT									
RATING	40C AMB-S1 CONT			**CC**	010A						
DE	6307	**ODE**	6206								
ENCL	OPSB	**SN**									
	IE3-60HZ 92.5(75%) 91.5(50%)										
	IE3-50HZ-91.7(75%) 91.6(50%)										
	SFA 31-30/15//34/17										

AC Induction Motor Performance Data
Record # 102540
Typical performance - not guaranteed values

Winding: 37WGZ674-R002	**Type:** 3748M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10HP//7.5KW	**Full Load Torque**	29.7 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			28-26.8/13.4//32/16	**Breakdown Torque**	131 LB-FT
R.P.M.			1770//1470	**Pull-up Torque**	58.7 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	77.9 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	119 A
Service Factor (S.F.)			1.15	**No-load Current**	7.22 A
NEMA Nom. Eff.	91.7	**Power Factor**	76	**Line-line Res. @ 25ºC**	0.85311 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps			31-30/15//34/17	**Temp. Rise @ S.F. Load**	40°C
				Locked-rotor Power Factor	36.5
				Rotor inertia	1.18 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	56	69	76	80	82	78
Efficiency	86.5	91.5	92.5	92.5	92	91.2	92.2
Speed	1793.9	1788.5	1782.5	1776.1	1769.6	1762.5	1772
Line amperes	7.79	9.19	11.1	13.4	16	18.8	15

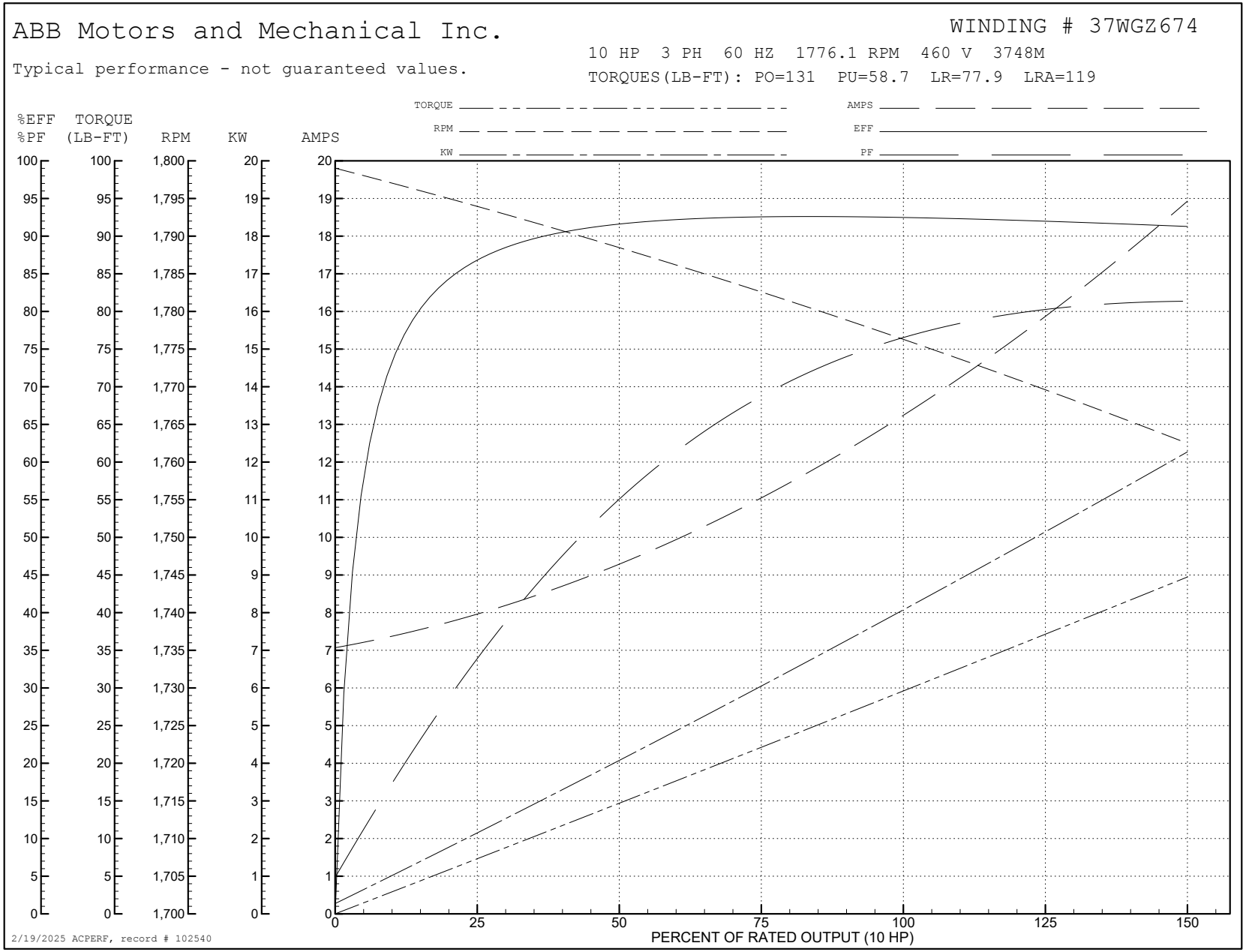


ABB Motors and Mechanical Inc.
WINDING # 37WGZ674
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 1776.1 RPM 460 V 3748M
TORQUES(LB-FT): PO=131 PU=58.7 LR=77.9 LRA=119
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
2/19/2025 ACPERF, record # 102540
PERCENT OF RATED OUTPUT (10 HP)

AC Induction Motor Performance Data
Record # 102541
Typical performance - not guaranteed values

Winding: 37WGZ674-R002	**Type:** 3748M	**Enclosure:** OPSB

Nameplate Data			**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)		10HP//7.5KW	**Full Load Torque**	35.86 LB-FT
Volts		208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps		28-26.8/13.4//32/16	**Breakdown Torque**	113 LB-FT
R.P.M.		1770//1470	**Pull-up Torque**	53.7 LB-FT
Hz	60//50 **Phase**	3	**Locked-rotor Torque**	77.9 LB-FT
NEMA Design Code	A **KVA Code**	L	**Starting Current**	109 A
Service Factor (S.F.)		1.15	**No-load Current**	6.92 A
NEMA Nom. Eff.	91.7 **Power Factor**	76	**Line-line Res. @ 25ºC**	0.85035 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps		31-30/15//34/17	**Temp. Rise @ S.F. Load**	54°C
			Locked-rotor Power Factor	40.6
			Rotor inertia	1.18 lb-ft²

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	80	82	83	81
Efficiency	88.2	91.6	91.7	90.9	90.2	89.6	90.5
Speed	1492.1	1484.7	1476.6	1468.1	1462.5	1457.9	1465
Line amperes	7.8	9.74	12.4	15.5	17.6	19.1	16.8

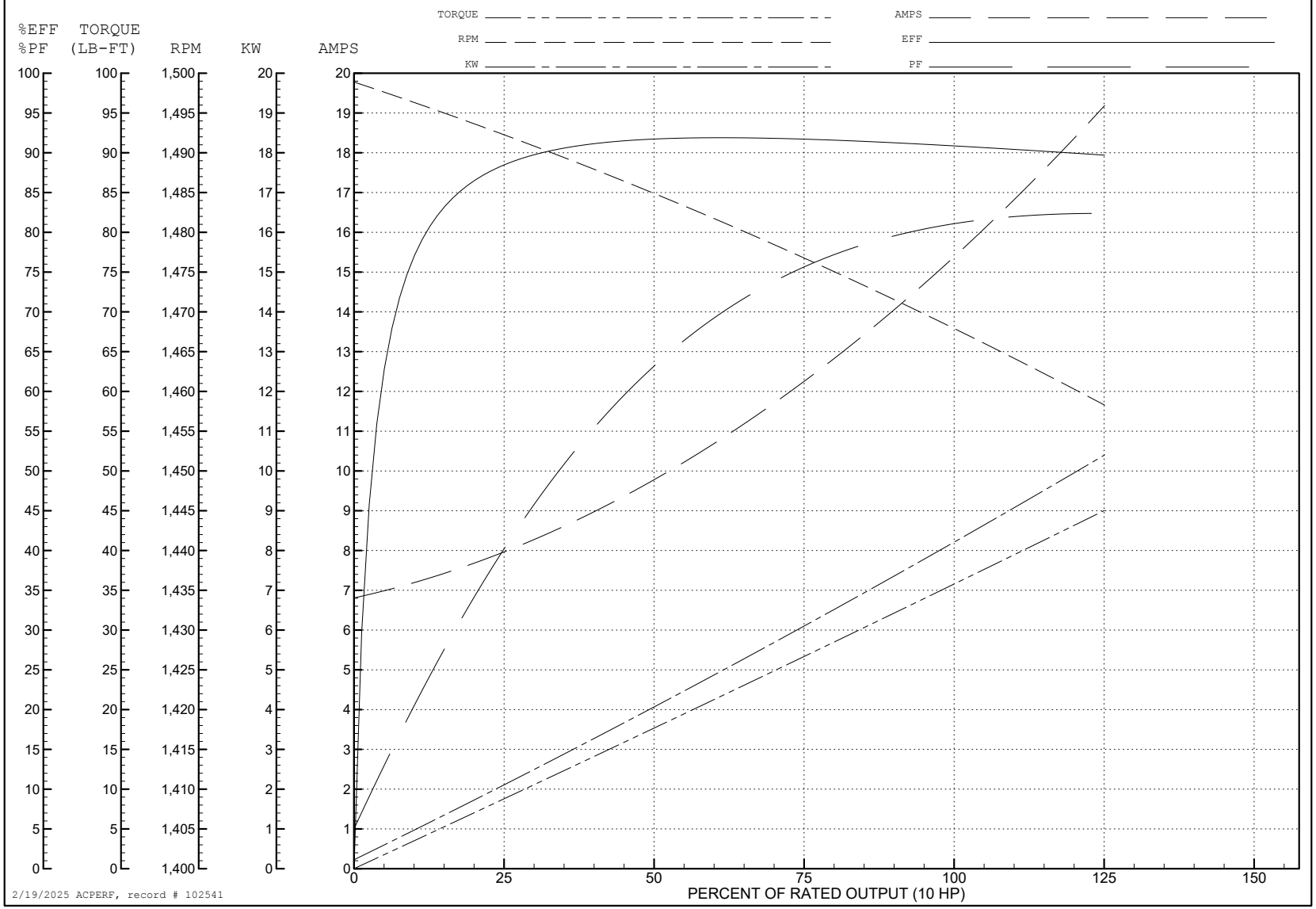
ABB Motors and Mechanical Inc.

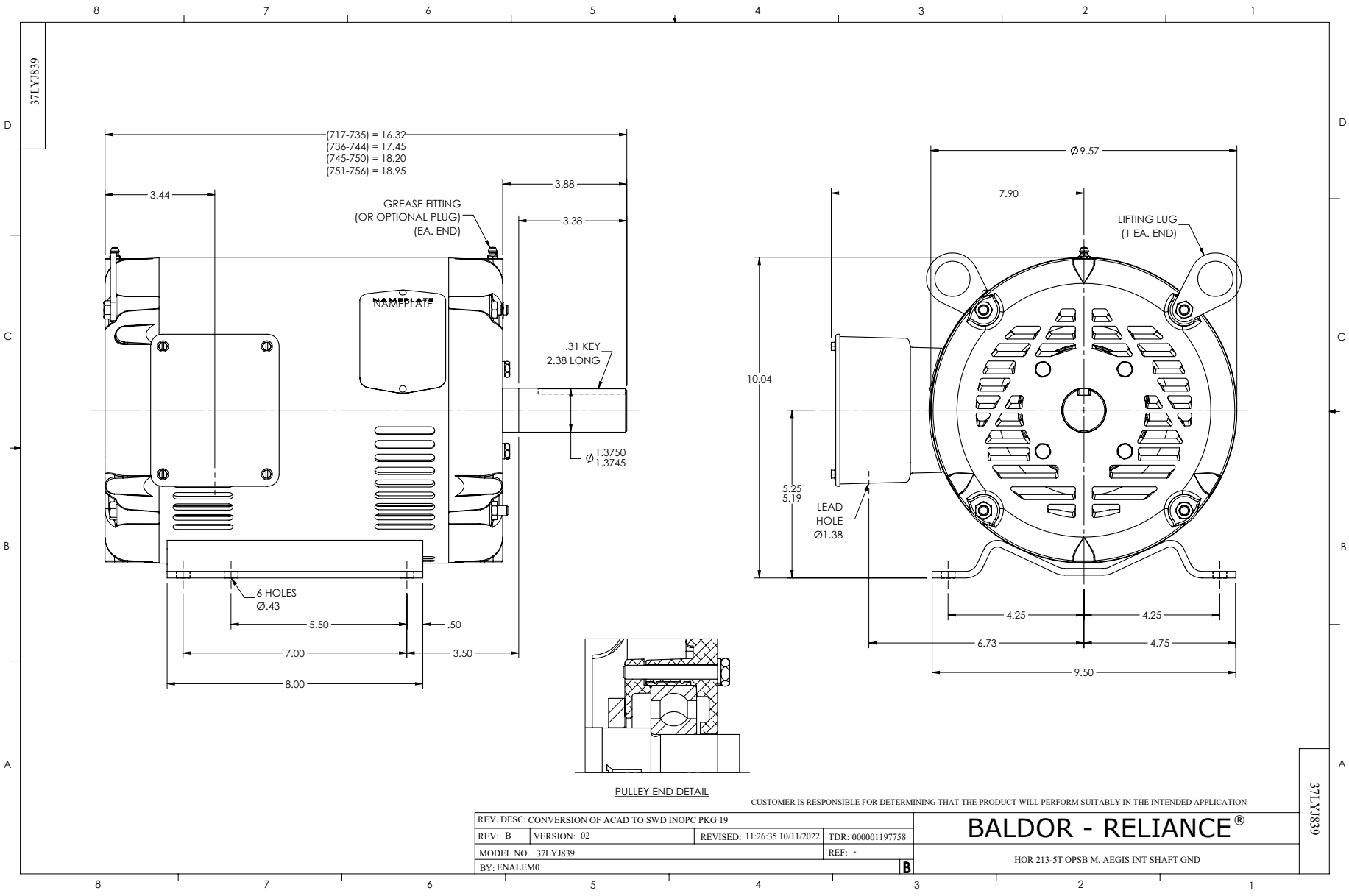
WINDING # 37WGZ674

10 HP 3 PH 50 HZ 1468.1 RPM 380 V 3748M

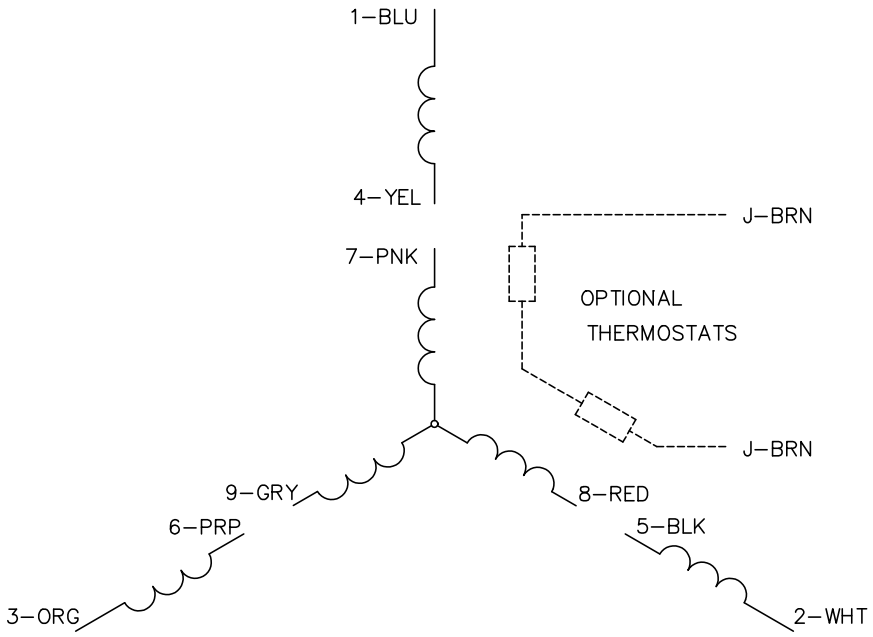
Typical performance - not guaranteed values.

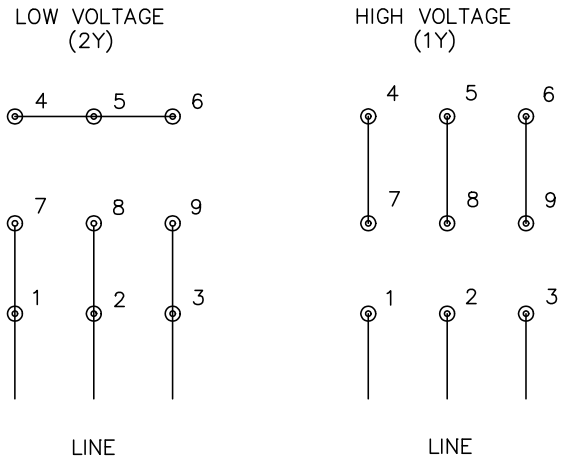
TORQUES(LB-FT): PO=113 PU=53.7 LR=77.9 LRA=109




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