ABB BALDOR RELIANCE

Customer information packet

M1760T

10/2.5HP, 1760/875RPM, 3PH, 60HZ, 213T, 3748M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
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	2.500 HP @ 60 HZ
	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	12.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.8 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	C
Type	AC
Mech. spec.	37F369
Base	
Status	PRD/A
Elec. spec.	37WGZ651
Layout	37LYF369
Eff. date	05-10-2024
CD Diagram	CD0032
Poles	04/08
Leads	6#14
Proprietary	False
Created date	12-09-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3748M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	20.52 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm
	875 rpm
Speed Code	2S-1W-VT
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

NP1256L											
CAT.NO.	M1760T										
SPEC.	37F369Z651										
HP	10/2.5										
VOLTS	460										
AMP	12.8/4.8										
RPM	1760/875										
FRAME	213T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	H				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6307		**ODE**	6206							
ENCL	TEFC	**SN**									
	SFA 14.7/5.4										

Parts List

Part number	Description	Quantity
SA388838	SA 37F369Z651	1.000 ea
RA379202	RA 37F369Z651	1.000 ea
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3004	37 CB CASTING W/1.09 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3100A01	PUEP ASSEMBLY - ROUTING PUPROSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA3104A25	THRUBOLT .31-18 X 14.75	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007SP	PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
LC0032	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 85744
Preliminary Data Sheet

Winding: 37WGZ651-R001	**Type:** 3748M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			10/2.5
Volts			460
Full Load Amps			12.8/4.8
R.P.M.			1760/875
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			14.7/5.4

460 V, 60 Hz: High Speed Connection	
Full Load Torque	29.87 LB-FT
Start Configuration	direct on line
Breakdown Torque	104 LB-FT
Pull-up Torque	40.34 LB-FT
Locked-rotor Torque	91.1 LB-FT
Starting Current	108 A
No-load Current	4.74 A
Line-line Res. @ 25ºC	1.17 Ω
Temp. Rise @ Rated Load	85°C
Temp. Rise @ S.F. Load	104°C
Locked-rotor Power Factor	46
Rotor inertia	1.19 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	70	78	83	84	84	84
Efficiency	85.4	89.4	89.4	88.1	86.3	83.9	87
Speed	1791	1781	1771	1759	1747	1731	1752
Line amperes	5.56	7.51	9.89	12.83	16.03	19.93	14.8

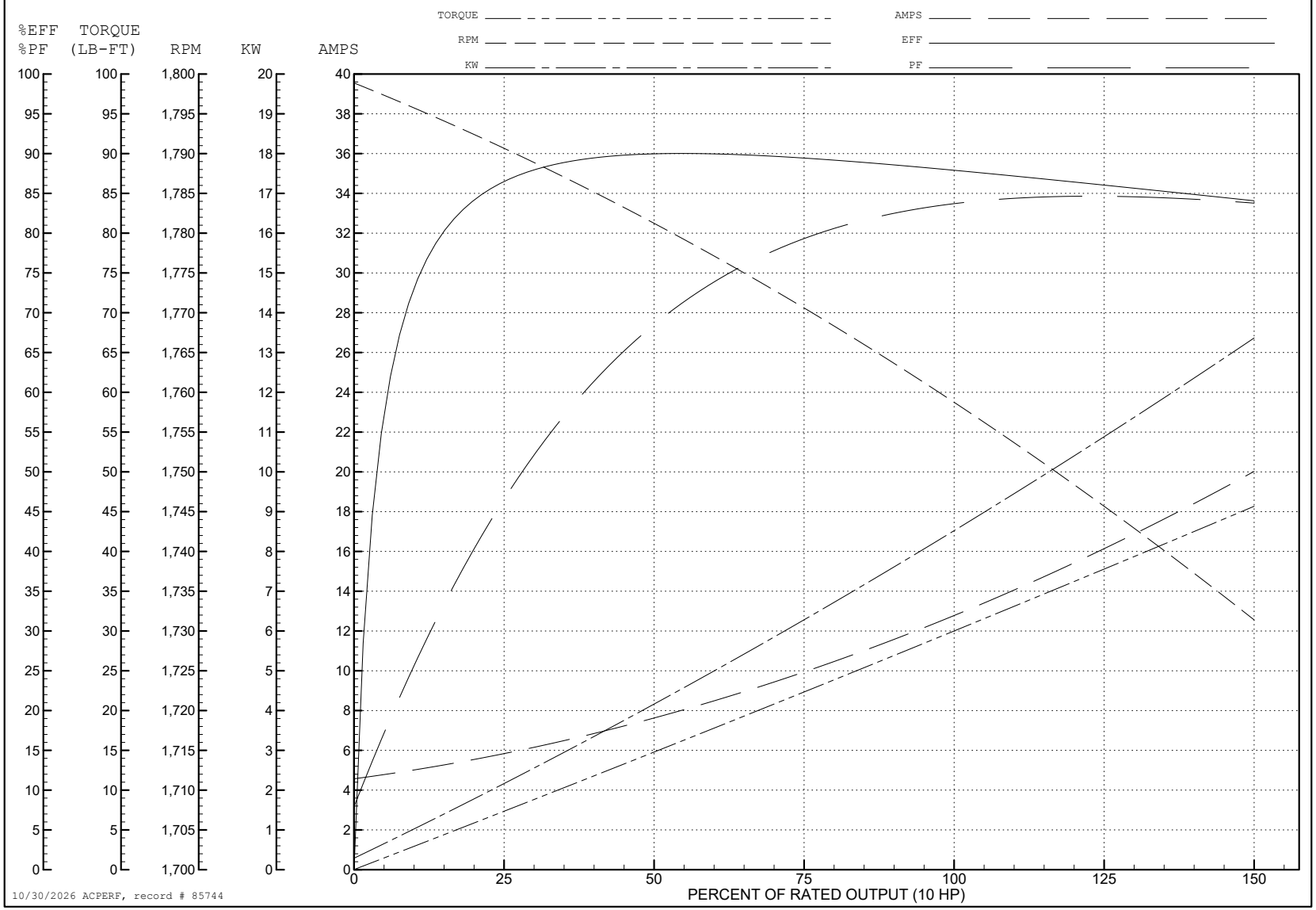
ABB Motors and Mechanical Inc.

WINDING # 37WGZ651

10 HP 3 PH 60 HZ 1759 RPM 460 V 3748M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=104 PU=40.34 LR=91.1 LRA=108



10/30/2026 ACPERF, record # 85744

AC Induction Motor Performance Data
Record # 85746
Preliminary Data Sheet

Winding: 37WGZ651-R001	**Type:** 3748M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			10/2.5
Volts			460
Full Load Amps			12.8/4.8
R.P.M.			1760/875
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			14.7/5.4

460 V, 60 Hz: Low Speed Connection	
Full Load Torque	14.9 LB-FT
Start Configuration	direct on line
Breakdown Torque	36.1 LB-FT
Pull-up Torque	17.3 LB-FT
Locked-rotor Torque	27.1 LB-FT
Starting Current	18.6 A
No-load Current	3.36 A
Line-line Res. @ 25ºC	4.68 Ω
Temp. Rise @ Rated Load	43°C
Temp. Rise @ S.F. Load	51°C
Locked-rotor Power Factor	46
Rotor inertia	1.19 lb-ft²

Load Characteristics 460 V, 60 Hz, 2.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	23	38	50	59	65	68	63
Efficiency	74	83.1	85.9	86.7	86.5	85.7	86.6
Speed	895.4	891.1	886.4	881.4	875.7	869.1	878
Line amperes	3.45	3.69	4.07	4.59	5.22	5.99	4.97

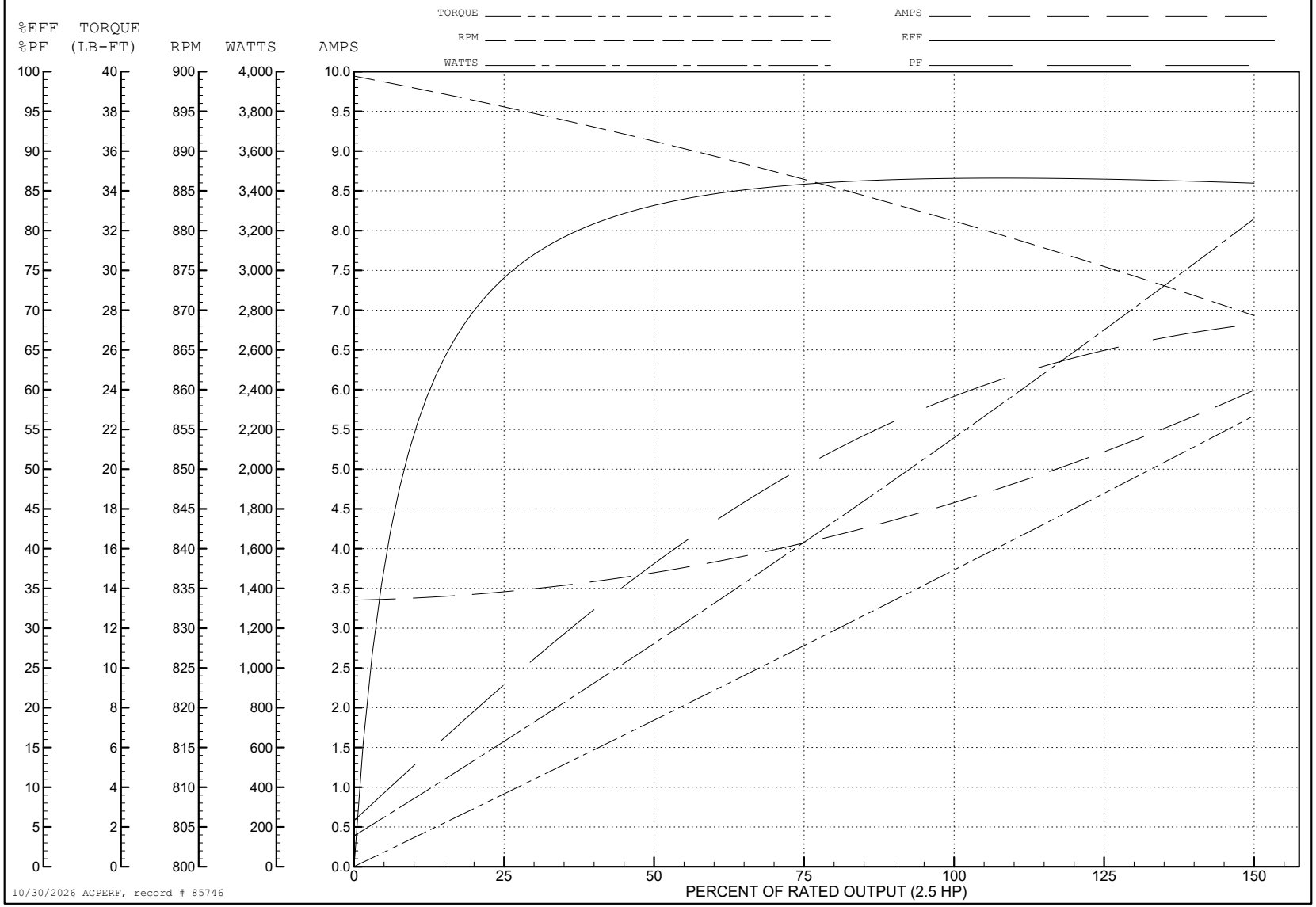
ABB Motors and Mechanical Inc.

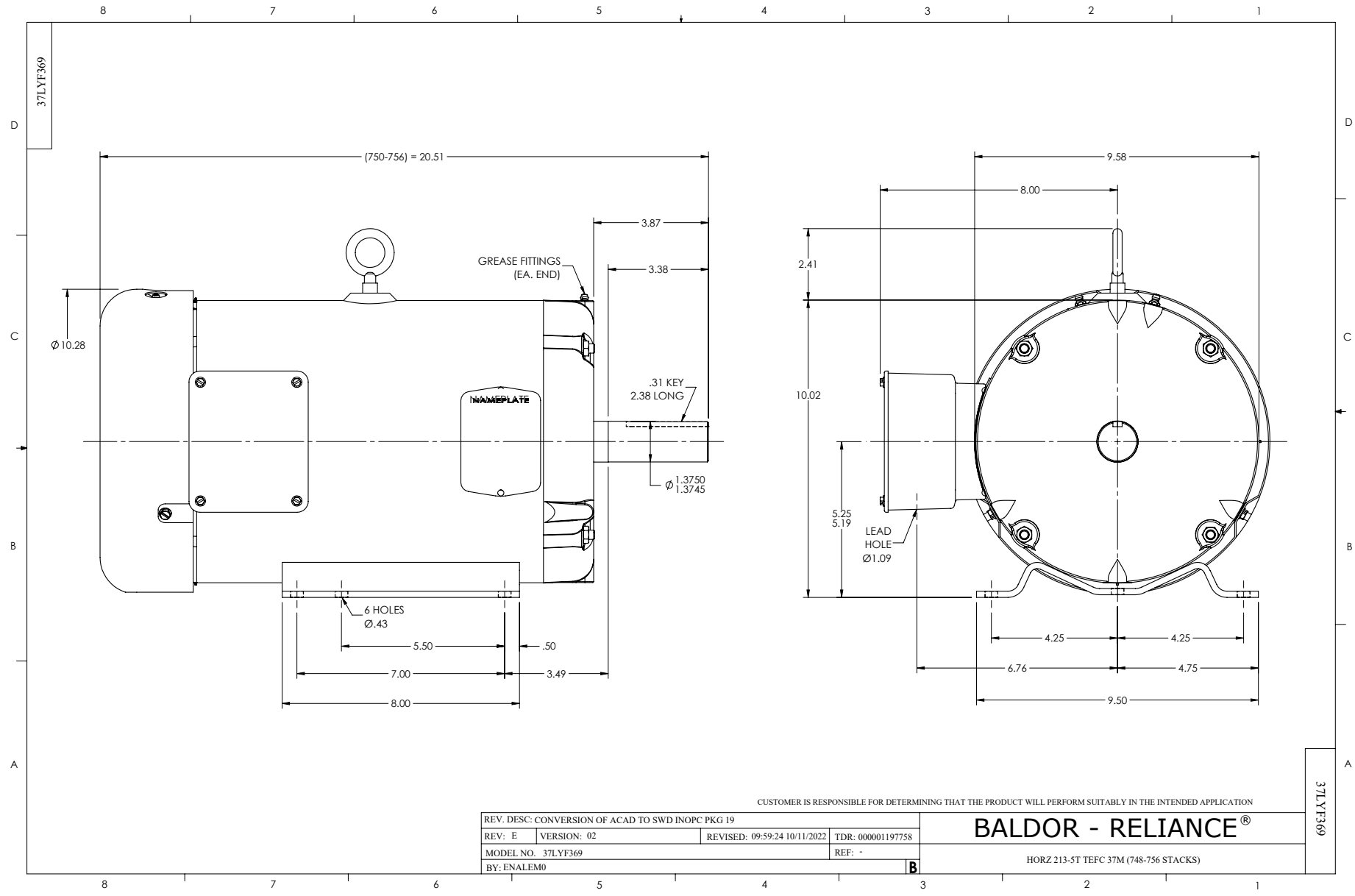
WINDING # 37WGZ651

2.5 HP 3 PH 60 HZ 881.4 RPM 460 V 3748M

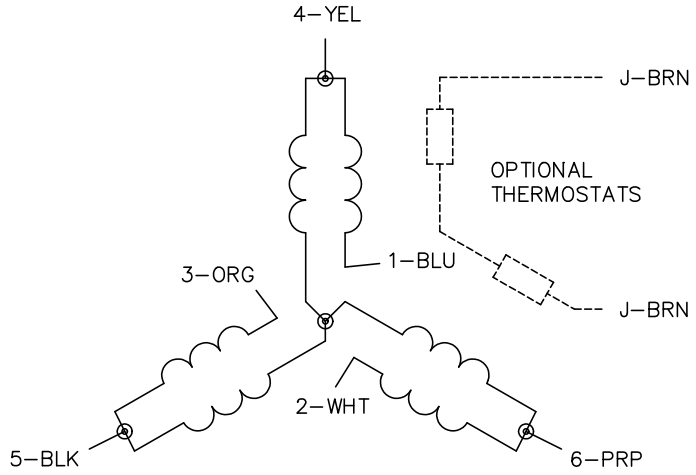
Typical performance - not guaranteed values.

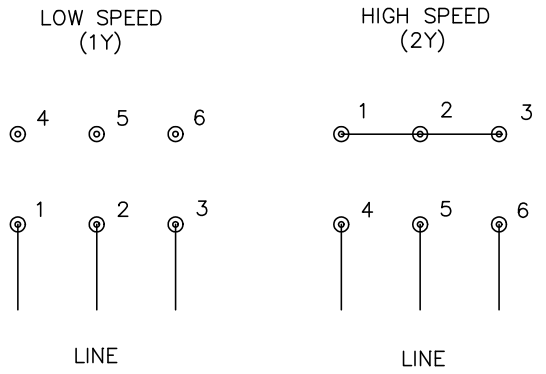
TORQUES(LB-FT): PO=36.1 PU=17.3 LR=27.1 LRA=18.6




37LYF369
(750-756) = 20.51
3.87
3.38
GREASE FITTINGS (EA. END)
Ø 10.28
NAMEPLATE
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
6 HOLES
Ø.43
5.50
.50
7.00
3.49
8.00
9.58
8.00
2.41
10.02
5.25
5.19
LEAD HOLE Ø1.09
4.25
4.25
6.76
4.75
9.50
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: E
VERSION: 02
REVISED: 09:59:24 10/11/2022
TDR: 000001197758
MODEL NO. 37LYF369
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5T TEFC 37M (748-756 STACKS)
37LYF369

CD0032





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.

CD0032

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING VARIABLE TORQUE