ABB BALDOR RELIANCE

Customer information packet

EBM3734TY

10HP, 1770RPM, 3PH, 60HZ, 215T, 3752M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	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	27.000 A @ 208.0 V
	25.000 A @ 230.0 V
	12.500 A @ 460.0 V
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

Part Detail

Revision	B
Type	AC
Mech. spec.	37A021
Base	
Status	PRD/A
Elec. spec.	37WGL865
Layout	37LYA021
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-01-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.51 IN
Power Factor	85
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP1259L										
CAT.NO.	EBM3734TY									
SPEC.	37A021L865G1									
HP	10									
VOLTS	230/460									
AMP	25/12.5									
RPM	1770									
FRAME	215T	**HZ**	60				**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	A	**CL**	F			
NEMA-NOM-EFF	91.7	**PF**	85							
RATING	40C AMB-CONT									
CC	010A									
DE	6307	**ODE**	6306							
ENCL	TEFC	**SN**								

Parts List

Part number	Description	Quantity
SA390631	SA 37A021L865G1	1.000 ea
RA381082	RA 37A021L865G1	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 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
37EP1301A01	STD FACE MTD ENDPLATE, BRAKE MTG	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A07	W2816-030 WVY WASHER (WB)	1.000 ea
37EP3100A03	FR/PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
84XN5013J12	1/2 13X3/4 HX SOCK, BK OX	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
HW2500A16	KEY USA #606, WOODRUFF	1.000 ea
07FH4007A25	IEC FH W/GRSR, DRAIN & 1.62 DIA. SHAFT H	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
37FN3002A05	EXFN, PLASTIC, 9.00 OD, 1.380 ID	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga
HA3104A25	THRUBOLT .31-18 X 14.75	4.000 ea
HW2501E10	KEY, 1/4 SQ X 1.000	1.000 ea
87BK4100EQF	87BK41000QF W/BR2701E01	1.000 ea
LB1404	BRAKE CONNECTION LABEL	1.000 ea

LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1259L	ALUM SUPER-E UL CC NEMA PREMIUM A60	1.000 ea
37PA1039	PALLET PACK GROUP, BLANK PK1148	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

AC Induction Motor Performance Data
Record # 85459
Preliminary Data Sheet

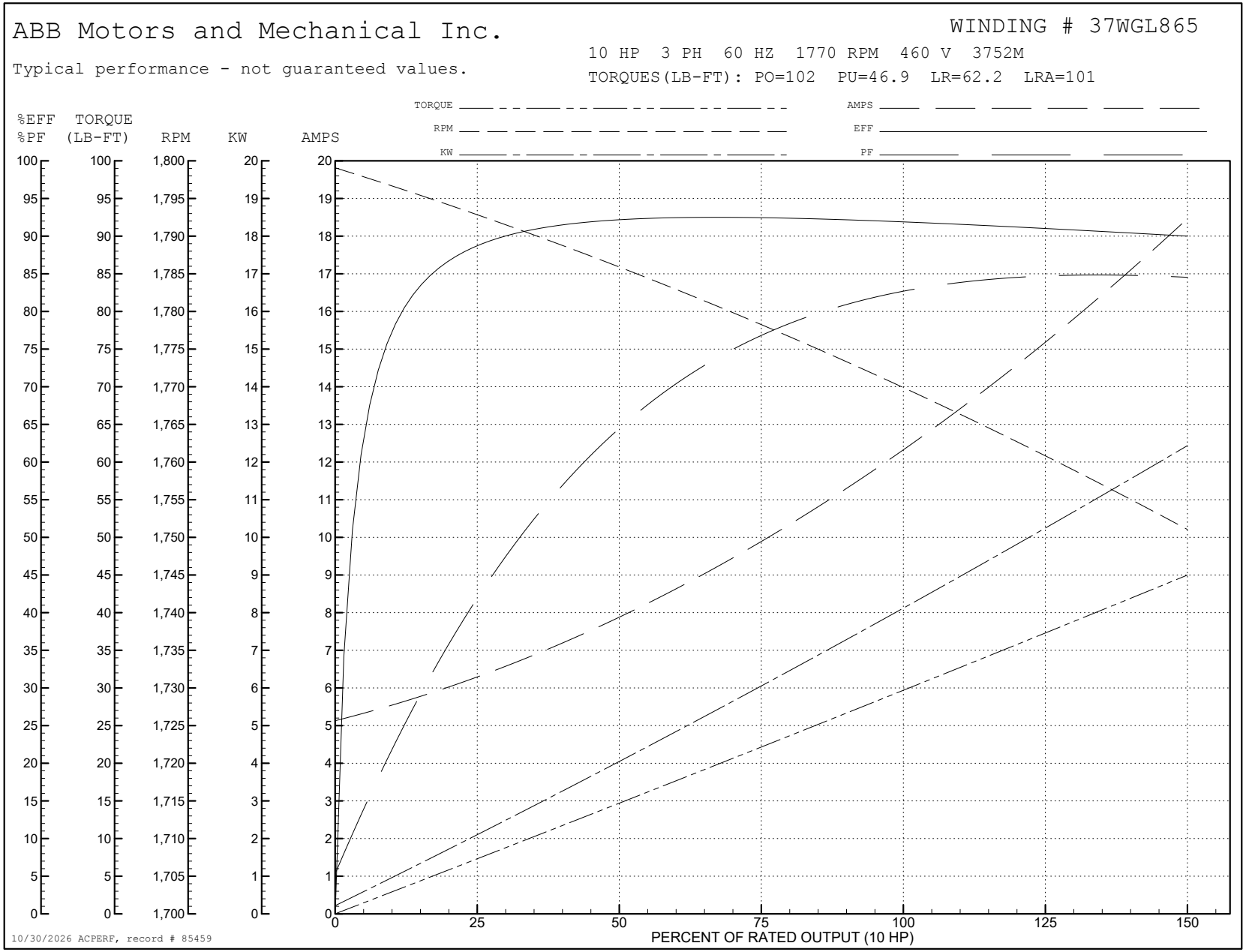
Winding: 37WGL865-R001	**Type:** 3752M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			10
Volts			230/460
Full Load Amps			25/12.5
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	29.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	102 LB-FT
Pull-up Torque	46.9 LB-FT
Locked-rotor Torque	62.2 LB-FT
Starting Current	101 A
No-load Current	5.33 A
Line-line Res. @ 25ºC	0.957 Ω
Temp. Rise @ Rated Load	69°C
Temp. Rise @ S.F. Load	86°C
Locked-rotor Power Factor	35.8
Rotor inertia	1.28 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	66	77	81	84	85	84
Efficiency	88.4	91.8	92.4	92.1	91	89.9	91.4
Speed	1793	1786	1778	1770	1761	1751	1762
Line amperes	6.05	7.73	9.9	12.5	15.3	18.3	14.1


ABB Motors and Mechanical Inc.
WINDING # 37WGL865
10 HP 3 PH 60 HZ 1770 RPM 460 V 3752M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=102 PU=46.9 LR=62.2 LRA=101
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
10/30/2026 ACPERF, record # 85459

AC Induction Motor Performance Data
Record # 114664
Typical performance - not guaranteed values

Winding: 37WGL865-R001	**Type:** 3752M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			7.5
Volts			200/400
Full Load Amps			21.4/10.7
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	82
Rating - Duty			50C AMB-CONT
S.F. Amps			24.3/12.15

400 V, 60 Hz: High Voltage Connection	
Full Load Torque	22.28 LB-FT
Start Configuration	direct on line
Breakdown Torque	76.4 LB-FT
Pull-up Torque	34.8 LB-FT
Locked-rotor Torque	46.1 LB-FT
Starting Current	86.8 A
No-load Current	4.39 A
Line-line Res. @ 25ºC	0.957 Ω
Temp. Rise @ Rated Load	51°C
Temp. Rise @ S.F. Load	63°C
Locked-rotor Power Factor	35.8
Rotor inertia	1.28 lb-ft²

Load Characteristics 400 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	68	78	82	85	86	84
Efficiency	87.7	91.5	92.1	92	90.9	89.8	91.3
Speed	1793	1786	1778	1770	1761	1751	1765
Line amperes	5.04	6.54	8.4	10.69	13.11	15.73	12.1

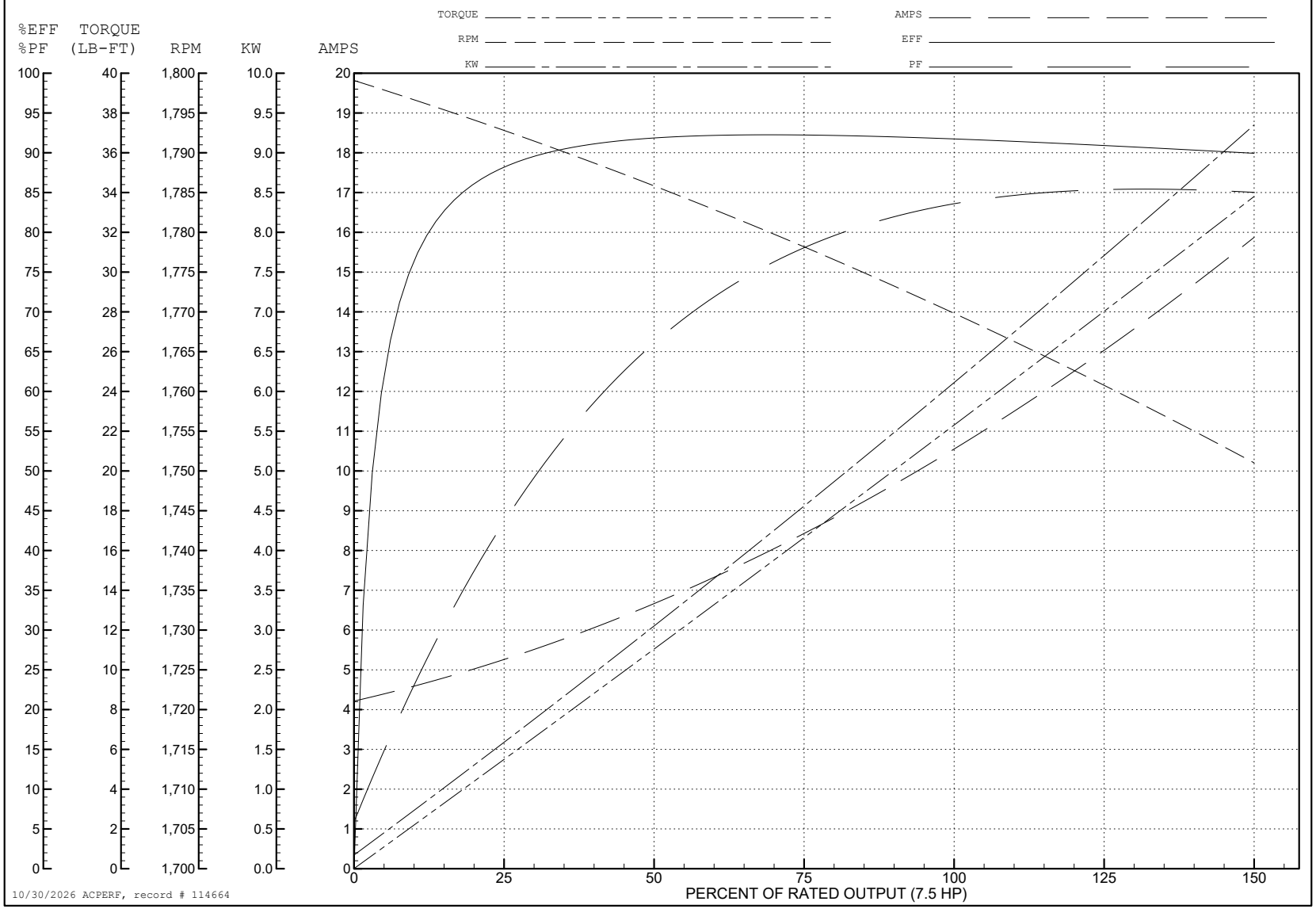
ABB Motors and Mechanical Inc.

WINDING # 37WGL865

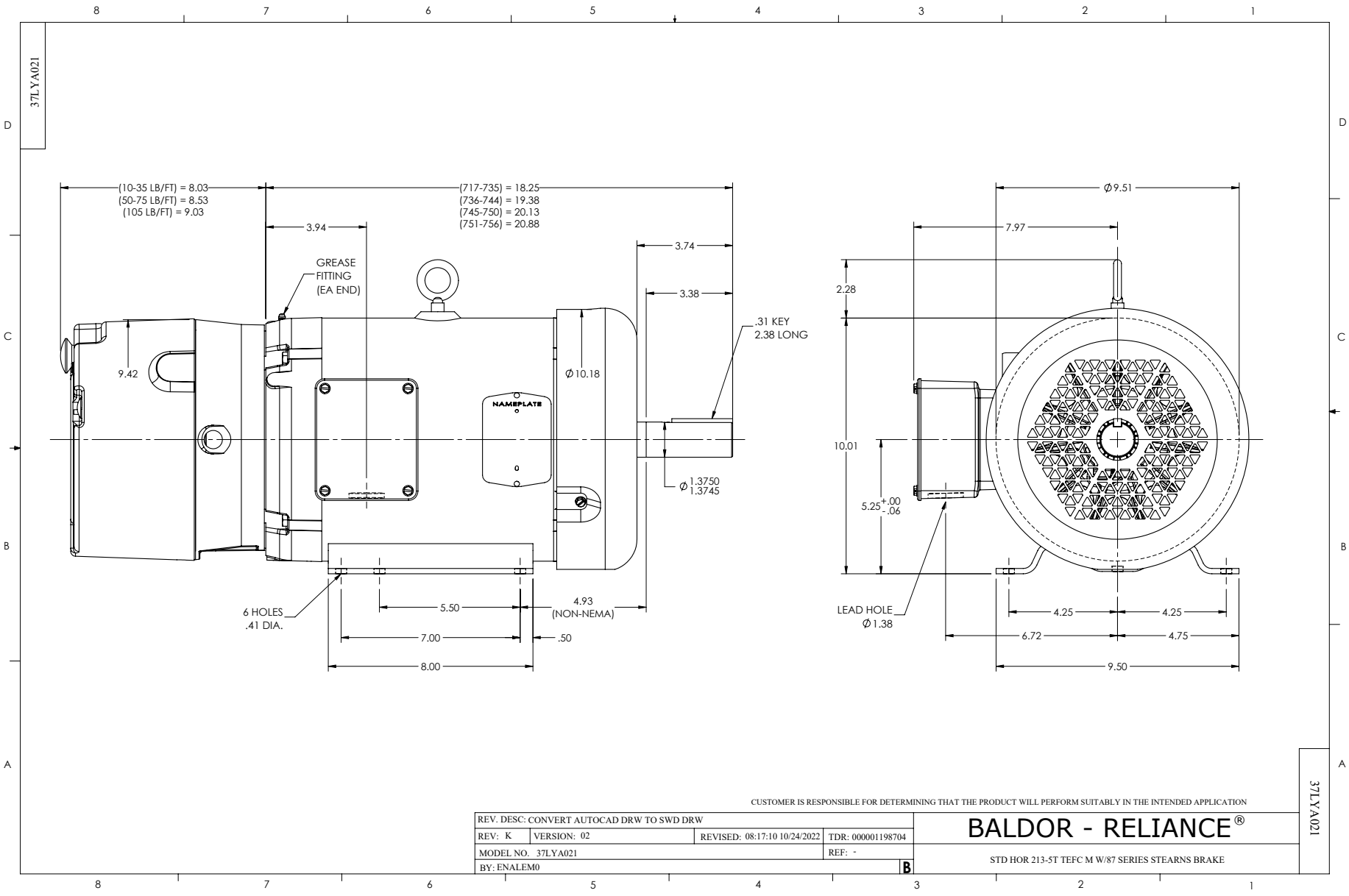
7.5 HP 3 PH 60 HZ 1770 RPM 400 V 3752M

Typical performance - not guaranteed values.

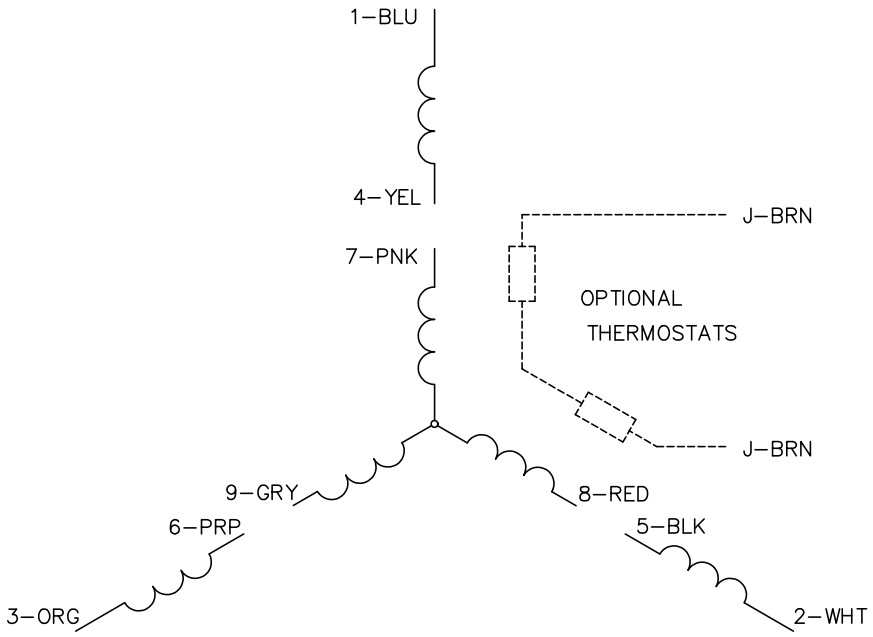
TORQUES(LB-FT): PO=76.4 PU=34.8 LR=46.1 LRA=86.8

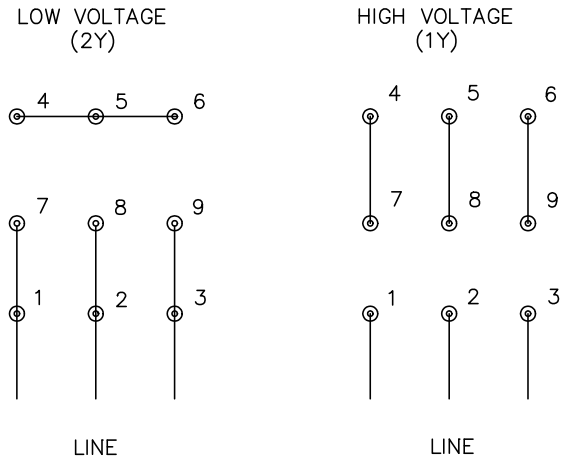


10/30/2026 ACPERF, record # 114664


37LYA021
(10-35 LB/FT) = 8.03
(50-75 LB/FT) = 8.53
(105 LB/FT) = 9.03
(717-735) = 18.25
(736-744) = 19.38
(745-750) = 20.13
(751-756) = 20.88
3.94
3.74
3.38
GREASE FITTING (EA END)
.31 KEY 2.38 LONG
9.42
Ø10.18
NAMEPLATE
Ø1.3750 1.3745
6 HOLES .41 DIA.
5.50
4.93 (NON-NEMA)
7.00
.50
8.00
Ø9.51
7.97
2.28
10.01
5.25 +.00 -.06
LEAD HOLE Ø1.38
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: K
VERSION: 02
REVISED: 08:17:10 10/24/2022
TDR: 000001198704
MODEL NO. 37LYA021
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HOR 213-5T TEFC M W/87 SERIES STEARNS BRAKE
37LYA021

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