ABB BALDOR RELIANCE

Customer information packet

EWCM3314T

15HP, 3475RPM, 3PH, 60HZ, 215TCZ, 3734M, OPSB
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	215TCZ
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
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	36.000 A @ 208.0 V
	35.000 A @ 230.0 V
	17.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	M
Type	AC
Mech. spec.	37F978
Base	
Status	PRD/A
Elec. spec.	37WGS867
Layout	37LYF978
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	05-28-2015

High Voltage Full Load Amps	17.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.25 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3475 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.	EWCM3314T									
SPEC.	37F978S867G2									
HP	15									
VOLTS	230/460									
AMP	35/17.5									
RPM	3475									
FRAME	215TCZ	**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	G	**DES**	B	**CL**	F			
NEMA-NOM-EFF	90.2	**PF**	89							
RATING	40C AMB-CONT									
CC	010A									
DE	6309	**ODE**	6206							
ENCL	OPSB	**SN**								

Parts List

Part number	Description	Quantity
SA302311	SA 37F978S867G2	1.000 ea
RA289405	RA 37F978S867G2	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
37EP3203D00	MASTER,ODE,206 BRG,GREASER,RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA1104A01	RODENT SCREEN 37 FRAME 206 BRG FRONT END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3401A04	PUEP 309 BRG NO BAFF, W/METAL SLINGER	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA1222	RODENT SCREEN - 37 C-FACE MOTORS	4.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HA2009A02	ALUM SLINGER 309 BRG CLOSE CPL PUMP MOTO	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	1.000 ea
HW2501D14	KEY, 3/16 SQ X 1.500	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga

HA3104A39	THRUBOLT-5/16-18 X 12.250	4.000 ea
37AD2001A01	BAFFLE PLATE, PLASTIC 0.63" WIDTH	2.000 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
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

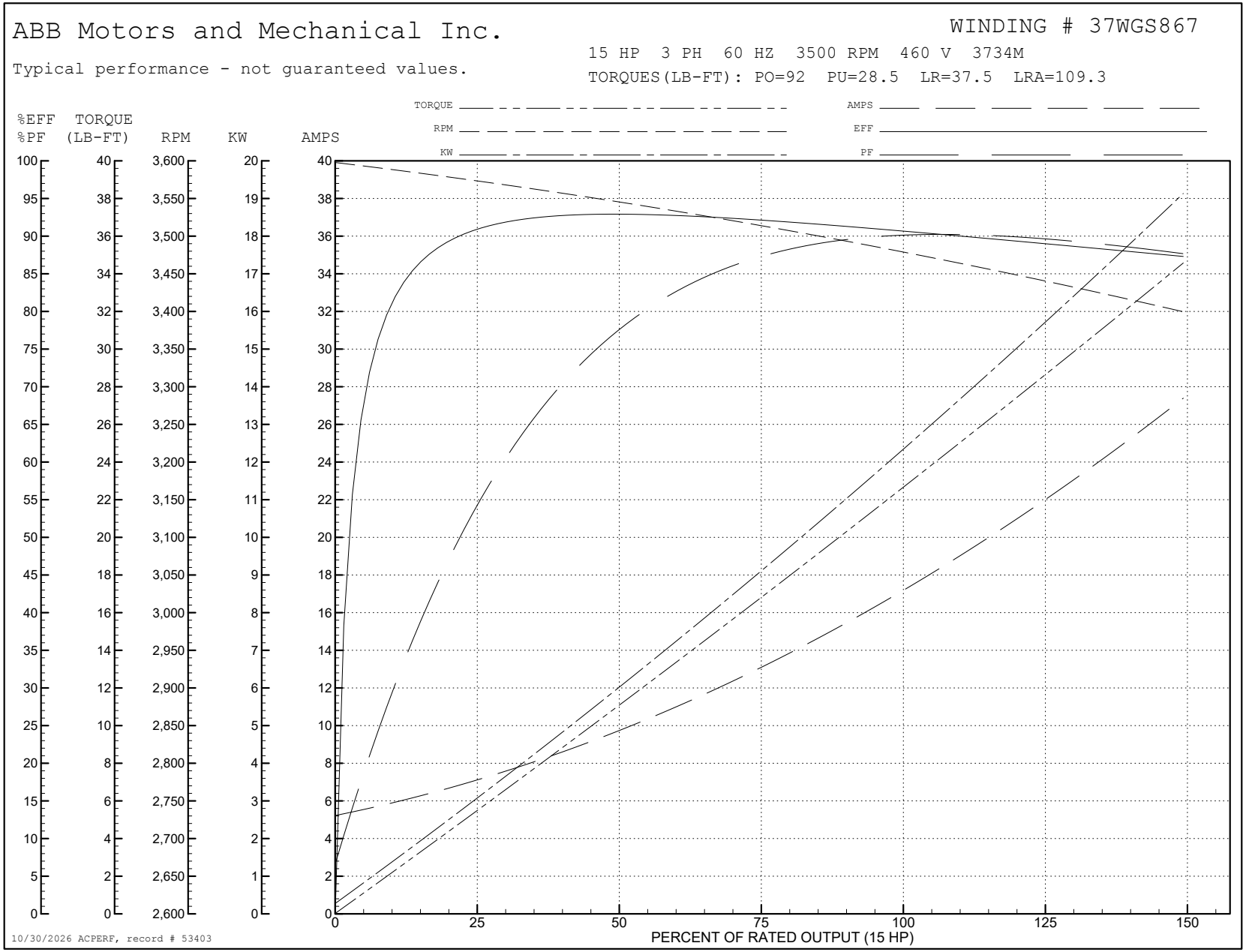
AC Induction Motor Performance Data
Record # 53403
Typical performance - not guaranteed values

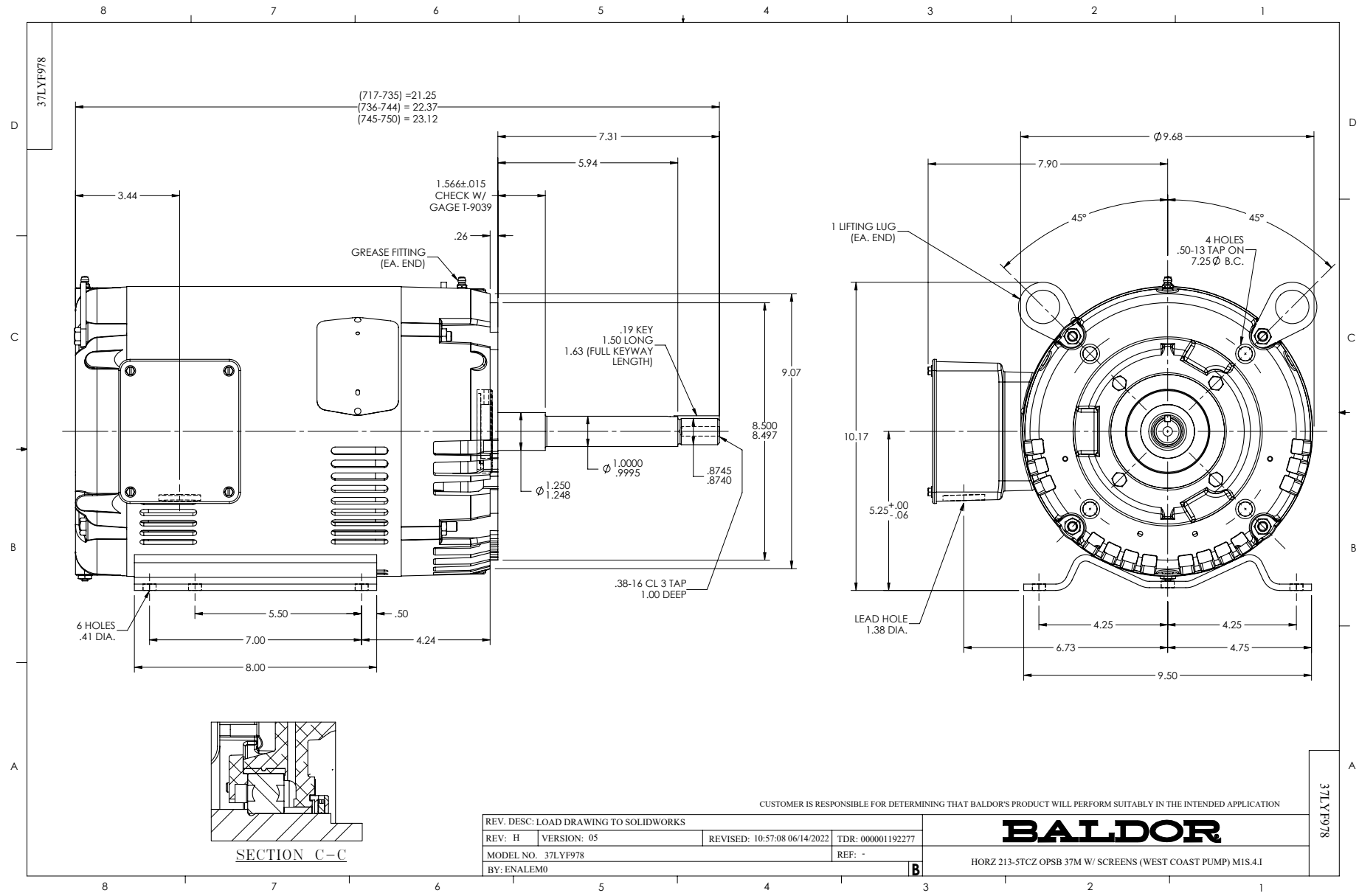
Winding: 37WGS867-R013	**Type:** 3734M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			35/17.5	**Breakdown Torque**	92 LB-FT
R.P.M.			3500	**Pull-up Torque**	28.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	37.5 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	109.3 A
Service Factor (S.F.)			1.15	**No-load Current**	5.49 A
NEMA Nom. Eff.	90.2	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.7163 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	59°C
				Locked-rotor Power Factor	33
				Rotor inertia	0.31 LB-FT2

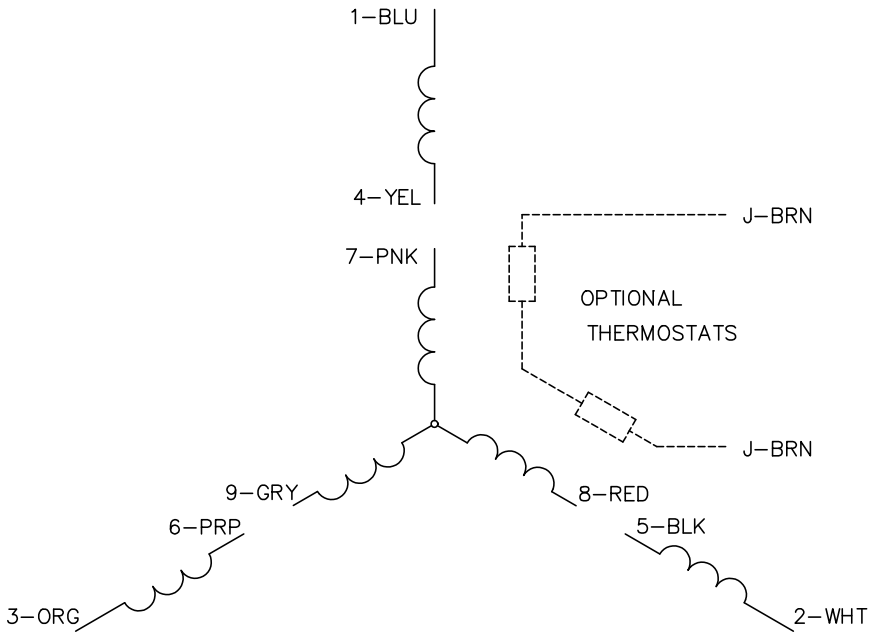
Load Characteristics 460 V, 60 Hz, 15 HP

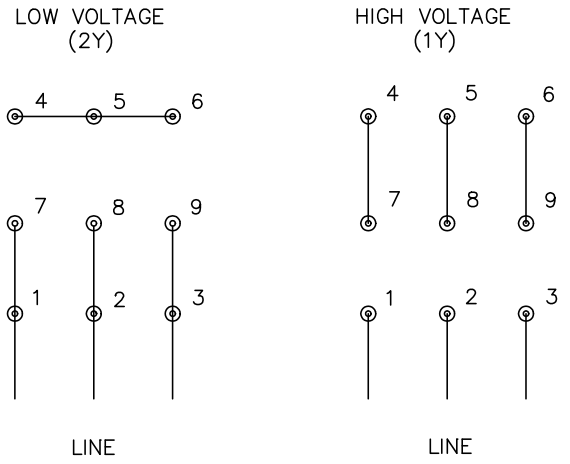
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	78	86	89	89	88	89
Efficiency	90.3	92.5	92.2	90.9	89.2	87.1	89.9
Speed	3572	3545.3	3514.9	3479.7	3441.4	3398.7	3457
Line amperes	6.69	9.59	13.2	17.3	22	27.3	20.1


ABB Motors and Mechanical Inc.
WINDING # 37WGS867
15 HP 3 PH 60 HZ 3500 RPM 460 V 3734M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=92 PU=28.5 LR=37.5 LRA=109.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
10/30/2026 ACPERF, record # 53403


37LYF978
(717-735) =21.25
(736-744) = 22.37
(745-750) = 23.12
7.31
5.94
3.44
1.566±.015
CHECK W/
GAGE T-9039
.26
GREASE FITTING
(EA. END)
.19 KEY
1.50 LONG
1.63 (FULL KEYWAY
LENGTH)
9.07
8.500
8.497
Ø 1.0000
.9995
.8745
.8740
Ø 1.250
1.248
.38-16 CL 3 TAP
1.00 DEEP
6 HOLES
.41 DIA.
5.50
.50
7.00
4.24
8.00
Ø9.68
7.90
45°
45°
1 LIFTING LUG
(EA. END)
4 HOLES
.50-13 TAP ON
7.25Ø B.C.
10.17
5.25 +.00 -.06
LEAD HOLE
1.38 DIA.
4.25
4.25
6.73
4.75
9.50
SECTION C–C
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: H
VERSION: 05
REVISED: 10:57:08 06/14/2022
TDR: 000001192277
MODEL NO. 37LYF978
REF: -
BY: ENALEM0
B
BALDOR
HORZ 213-5TCZ OPSB 37M W/ SCREENS (WEST COAST PUMP) M1S.4.I
37LYF978

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