ABB BALDOR RELIANCE

Customer information packet

VL3605

2HP, 1725RPM, 1PH, 60HZ, 184C, 3628L, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	23.000 A @ 115.0 V
	11.700 A @ 208.0 V
	11.500 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
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	AC
Type	AC
Mech. spec.	36C013
Base	
Status	PRD/A
Elec. spec.	36WGW223
Layout	36LYC013
Eff. date	05-09-2024
CD Diagram	CD0001
Poles	04
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.68 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	1725 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

	NP1256L							
CAT.NO.	VL3605							
SPEC.	36C13W223							
HP	2							
VOLTS	115/230							
AMP	23/11.5							
RPM	1725							
FRAME	184C	**HZ**	60			**PH**	1	
SER.F.	1.15	**CODE**	H	**DES**	L	**CLASS**	F	
NEMA-NOM-EFF	75.5	**PF**	74					
RATING	40C AMB-CONT							
CC								
DE	6206	**ODE**	6205					
ENCL	TEFC	**SN**						

Parts List

Part number	Description	Quantity
SA034357	SA 36C13W223	1.000 ea
RA030385	RA 36C13W223	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	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
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 ea
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3303A03	STD PU ENDPLATE -ENCL- 206 BRG W/OUT T-S	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A102	IEC FH GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga

EC1850A06SP	ELEC CAP 115V 2.0 X 4.3 X	1.000 ea
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 ea
SP5172A09	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

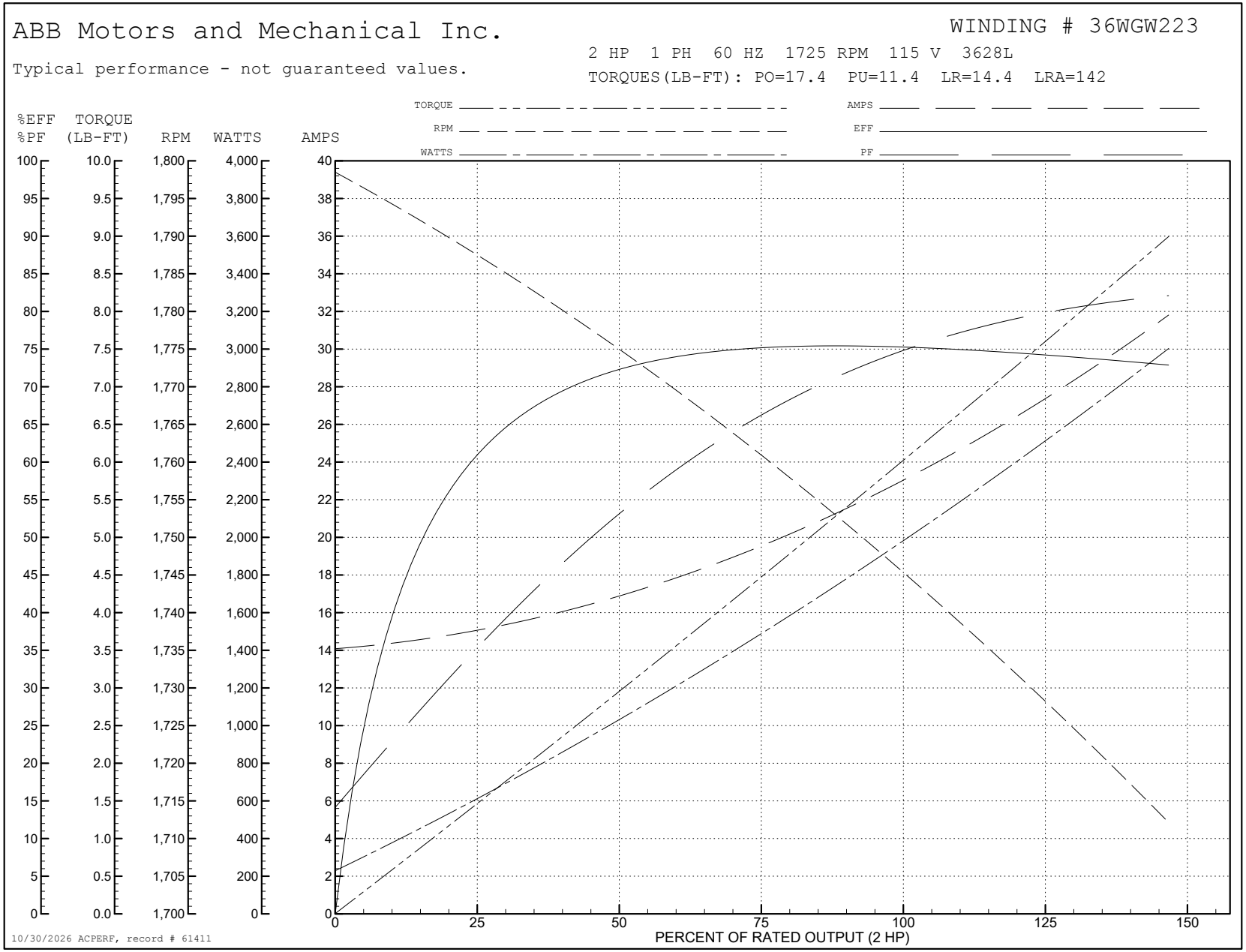
AC Induction Motor Performance Data
Record # 61411
Typical performance - not guaranteed values

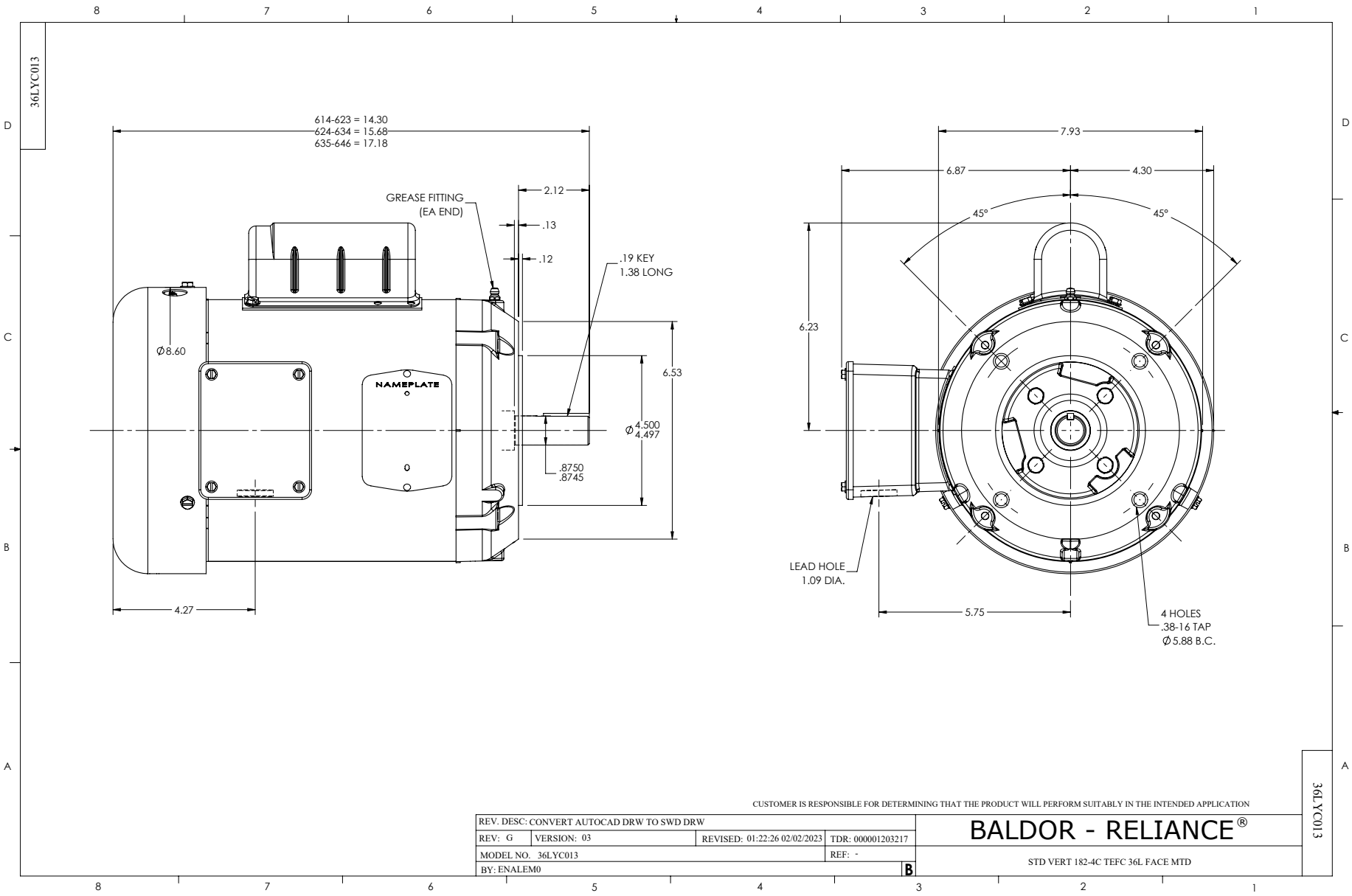
Winding: 36WGW223-R004	**Type:** 3628L	**Enclosure:** TEFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	6 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			23/11.5	**Breakdown Torque**	17.4 LB-FT
R.P.M.			1725	**Pull-up Torque**	11.4 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	14.4 LB-FT
NEMA Design Code	L	**KVA Code**	H	**Starting Current**	142 A
Service Factor (S.F.)			1.15	**No-load Current**	14.2 A
NEMA Nom. Eff.	75.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	0.239 Ω A Ph 1.14 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps				**Temp. Rise @ S.F. Load**	88°C
				Locked-rotor Power Factor	83.9
				Rotor inertia	0.263 LB-FT2

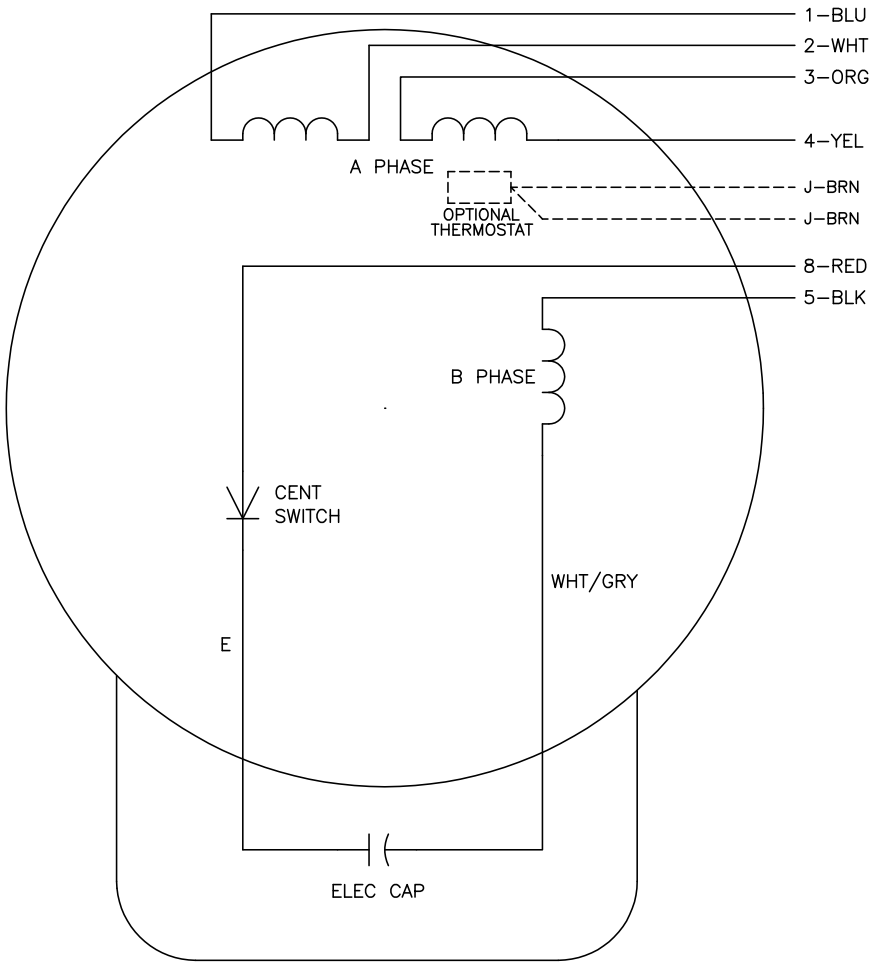
Load Characteristics 115 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	36	54	67	74	79	82	77
Efficiency	61	73	75	75.5	74	73	74.6
Speed	1788	1775	1760	1745	1730	1712	1736
Line amperes	15	16.8	19.6	23	27.4	31.6	25.6


ABB Motors and Mechanical Inc.
WINDING # 36WGW223
Typical performance - not guaranteed values.
2 HP 1 PH 60 HZ 1725 RPM 115 V 3628L
TORQUES(LB-FT): PO=17.4 PU=11.4 LR=14.4 LRA=142
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
10/30/2026 ACPERF, record # 61411


36LYC013
614-623 = 14.30
624-634 = 15.68
635-646 = 17.18
GREASE FITTING
(EA END)
2.12
.13
.12
.19 KEY
1.38 LONG
Ø8.60
NAMEPLATE
6.53
Ø 4.500
4.497
.8750
.8745
4.27
7.93
6.87
4.30
45°
45°
6.23
LEAD HOLE
1.09 DIA.
5.75
4 HOLES
.38-16 TAP
Ø5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: G
VERSION: 03
REVISED: 01:22:26 02/02/2023
TDR: 000001203217
MODEL NO. 36LYC013
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 182-4C TEFC 36L FACE MTD
36LYC013

CD0001



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	–
LOW OPP	1,3,5	2,4,8	–

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS