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**							

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

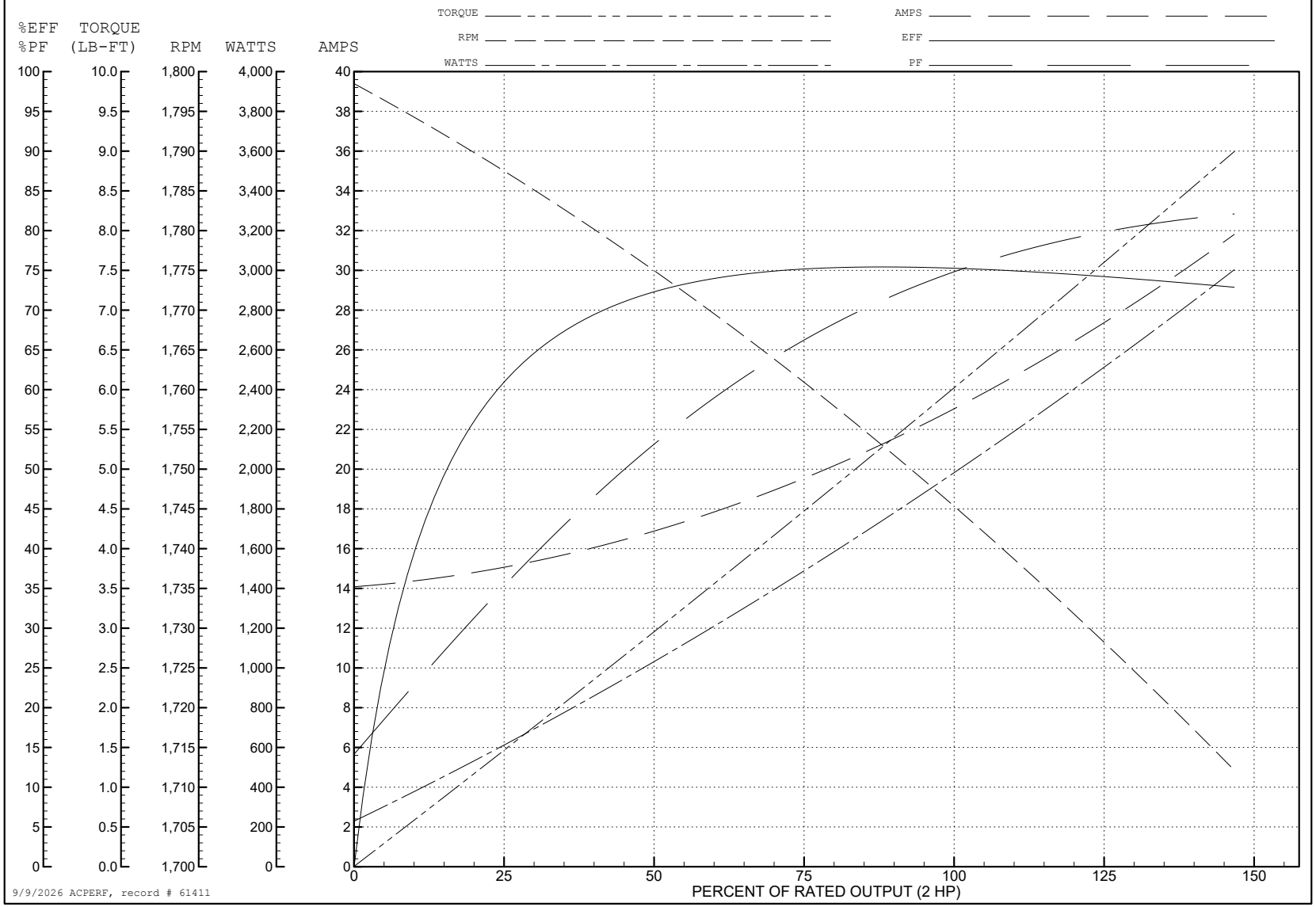
ABB Motors and Mechanical Inc.

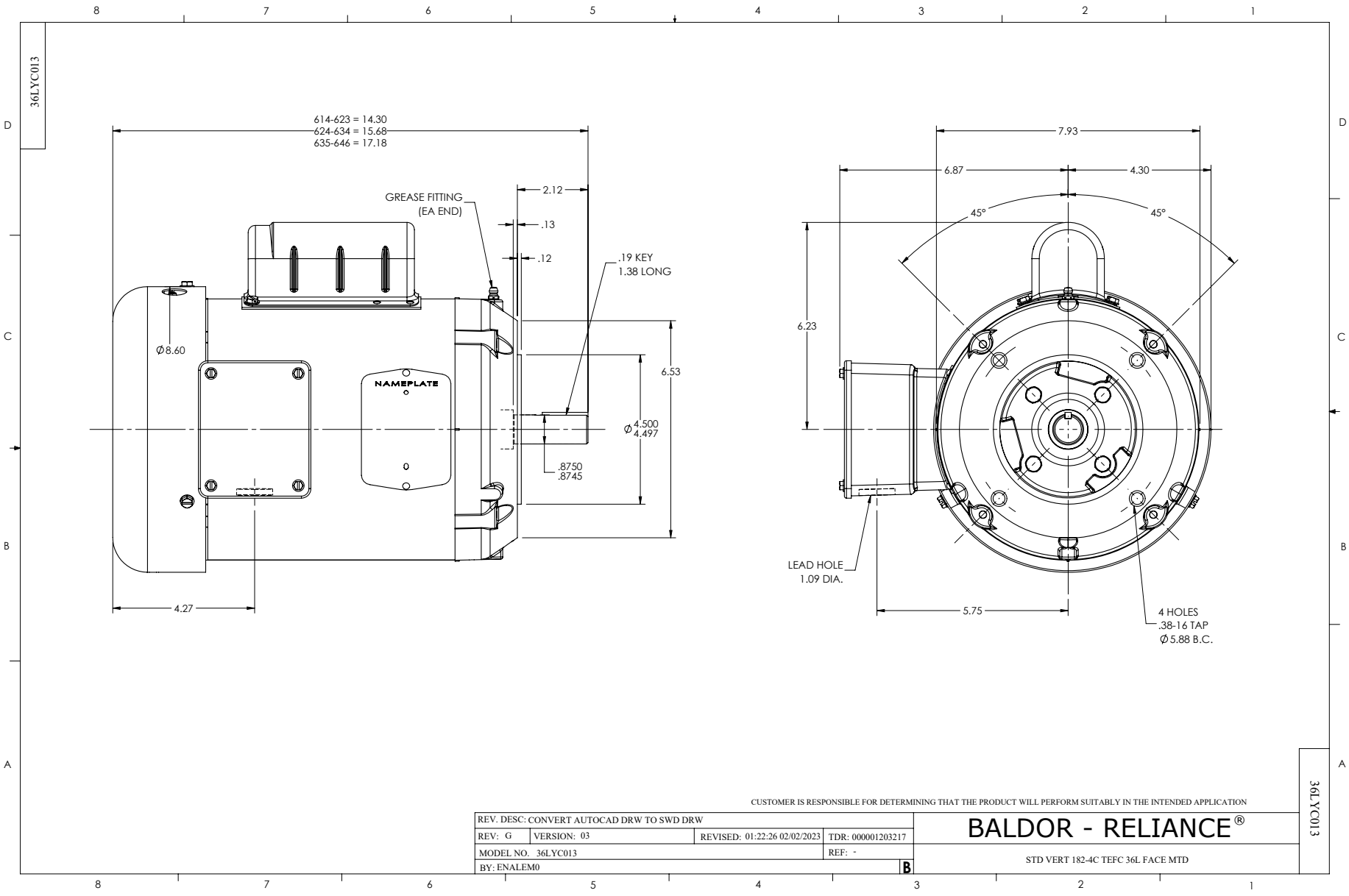
WINDING # 36WGW223

2 HP 1 PH 60 HZ 1725 RPM 115 V 3628L

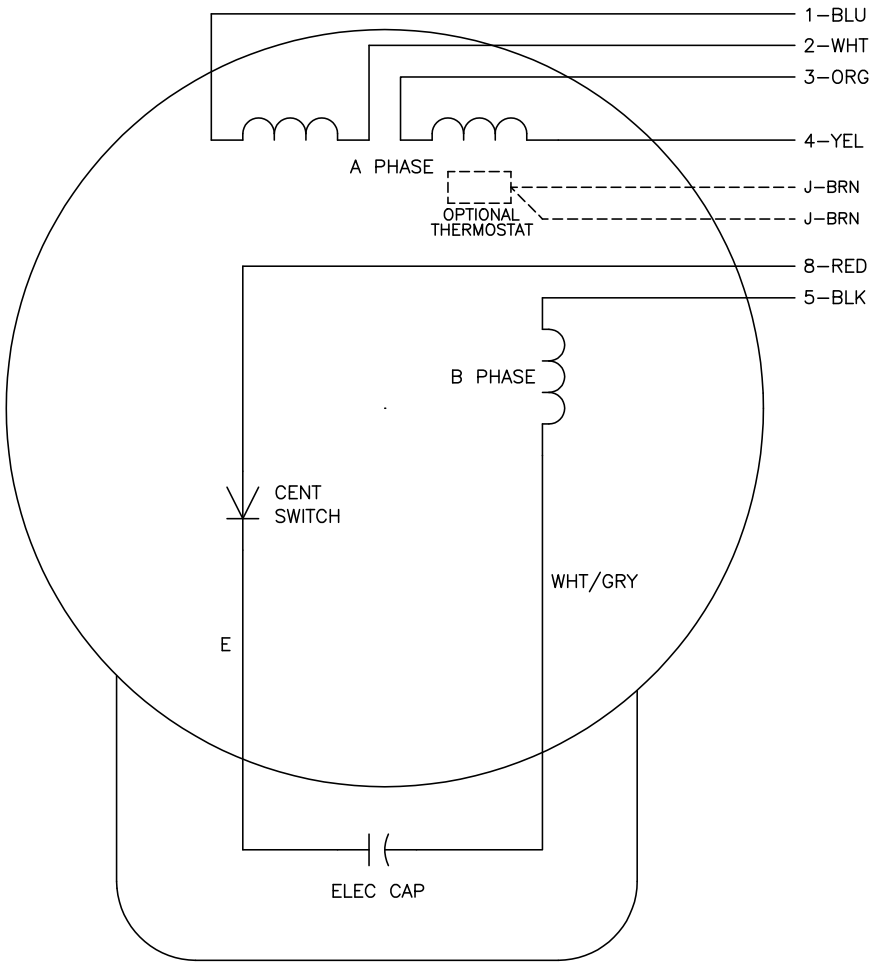
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=17.4 PU=11.4 LR=14.4 LRA=142




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