ABB BALDOR RELIANCE

Customer information packet

L1406T

3HP, 3450RPM, 1PH, 60HZ, 182T, 3628L, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	182T
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	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
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	14.000 A @ 230.0 V
	14.700 A @ 208.0 V
	28.000 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.0 a

Part Detail

Revision	AJ
Type	AC
Mech. spec.	36D001
Base	
Status	PRD/A
Elec. spec.	36WG0115
Layout	36LYD001
Eff. date	05-09-2024
CD Diagram	CD0001
Poles	02
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	G
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	2
Overall Length	15.00 IN
Power Factor	88
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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.	L1406T										
SPEC.	36D01-115										
HP	3										
VOLTS	115/230										
AMP	28/14										
RPM	3450										
FRAME	182T		**HZ**	60			**PH**	1			
SER.F.	1.15	**CODE**	G	**DES**	L	**CLASS**	F				
NEMA-NOM-EFF	78	**PF**	88								
RATING	40C AMB-CONT										
CC											
DE	6206		**ODE**	6205							
ENCL	OPEN	**SN**									

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

AC Induction Motor Performance Data
Record # 61423
Typical performance - not guaranteed values

Winding: 36WG0115-R007	**Type:** 3628L	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.6 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			28/14	**Breakdown Torque**	10.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	7.5 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.3 LB-FT
NEMA Design Code	L	**KVA Code**	G	**Starting Current**	148 A
Service Factor (S.F.)			1.15	**No-load Current**	10.7 A
NEMA Nom. Eff.	78	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.178 Ω A Ph 0.907 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps				**Temp. Rise @ S.F. Load**	69°C
				Locked-rotor Power Factor	80.5
				Rotor inertia	0.126 LB-FT2

Load Characteristics 115 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	66	81	87	90	89	88	89
Efficiency	58.1	70.7	74.6	75.2	73.9	70.9	74.4
Speed	3557	3522	3484	3439	3385	3314	3407
Line amperes	13.2	17.4	22.8	29	36.4	45.4	33.4

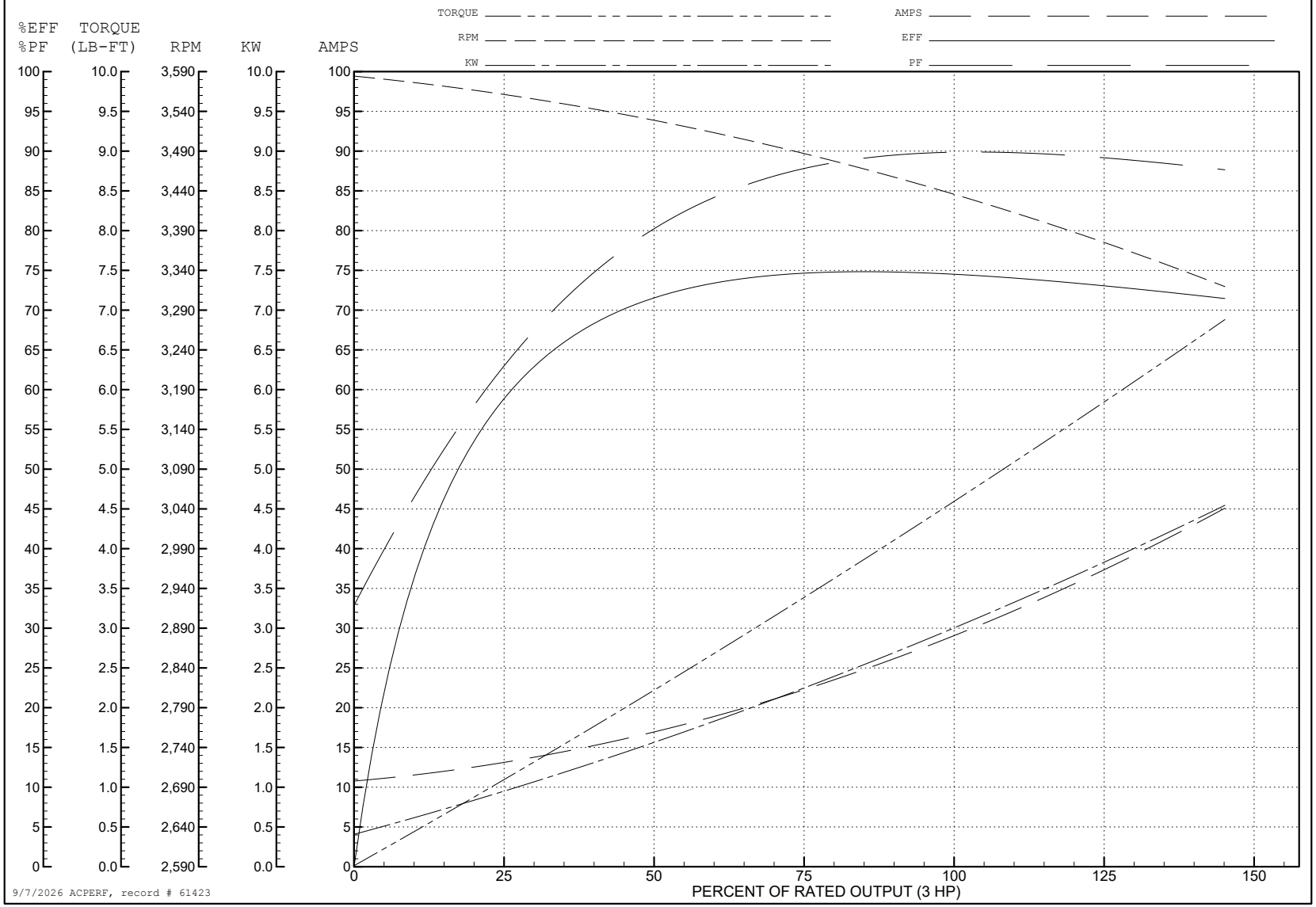
ABB Motors and Mechanical Inc.

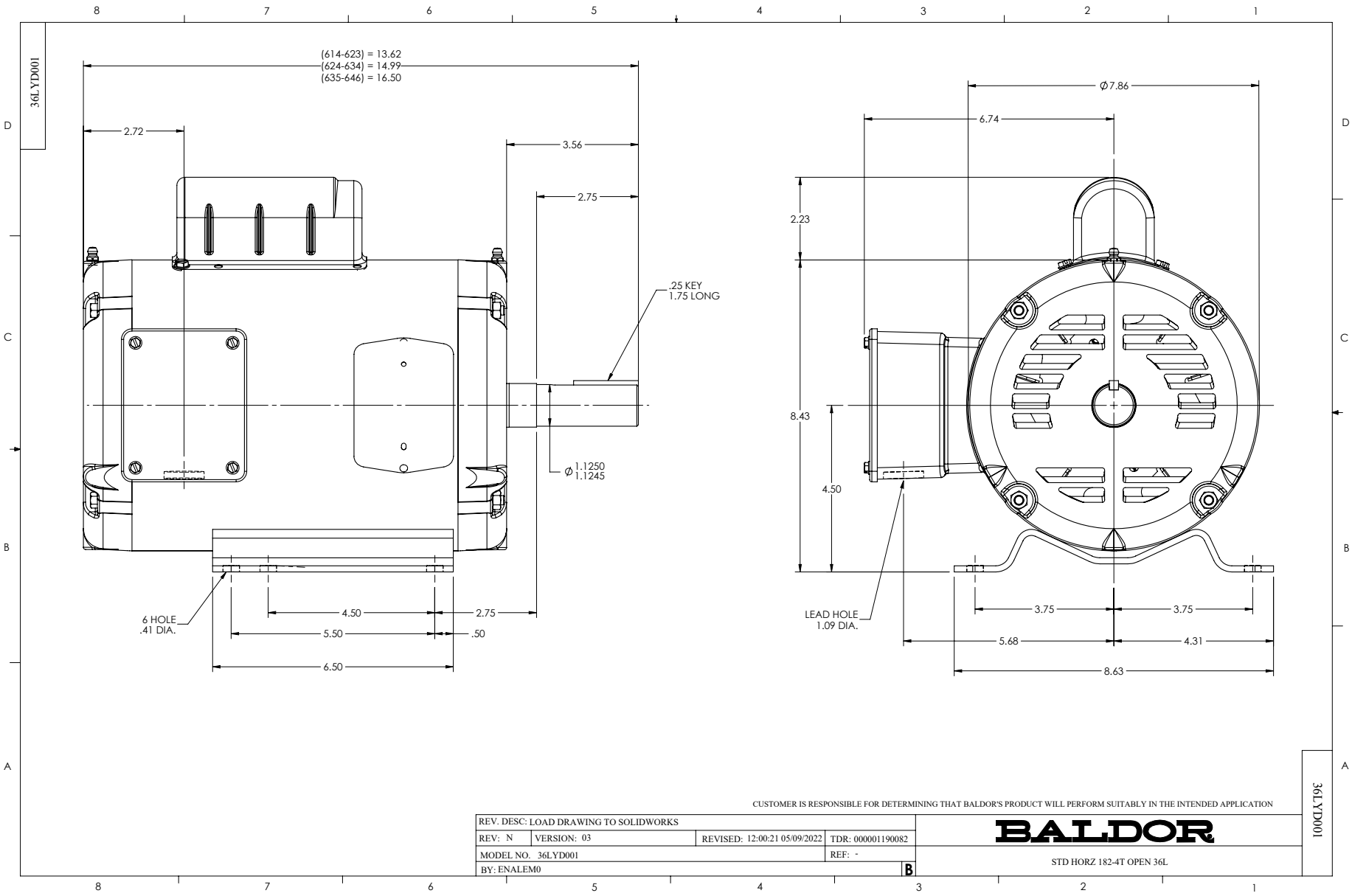
WINDING # 36WG0115

3 HP 1 PH 60 HZ 3450 RPM 115 V 3628L

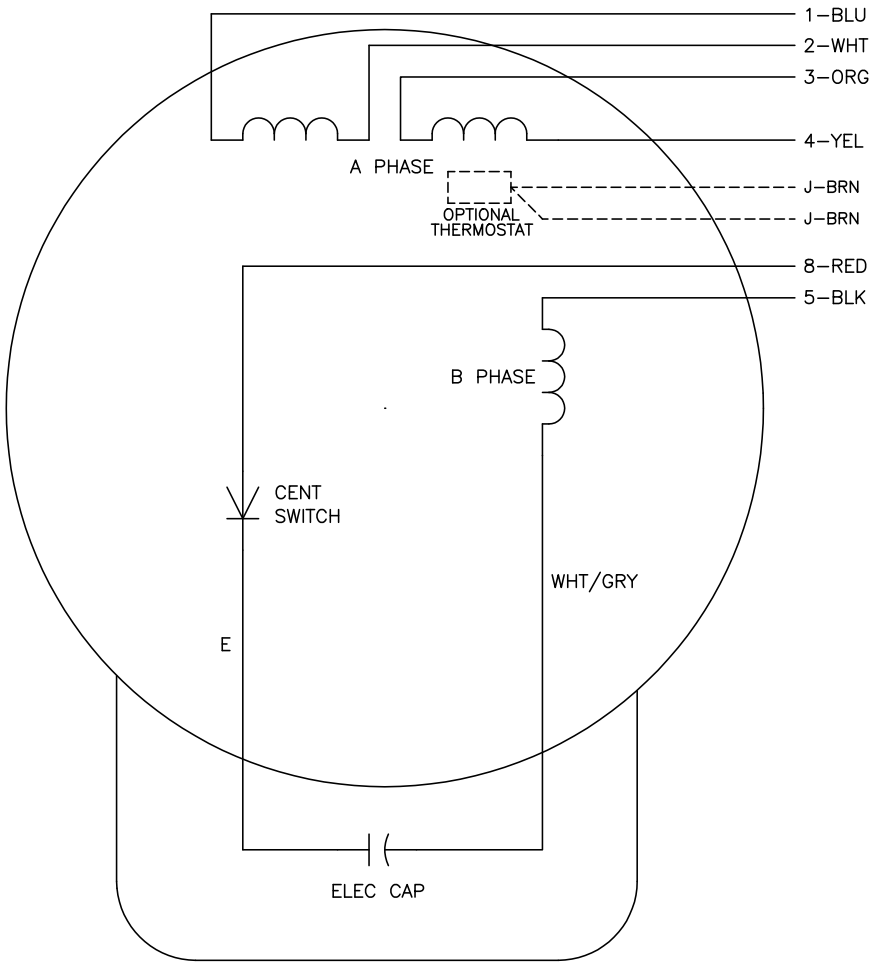
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=10.5 PU=7.5 LR=8.3 LRA=148




36LYD001
(614-623) = 13.62
(624-634) = 14.99
(635-646) = 16.50
2.72
3.56
2.75
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
6 HOLE
.41 DIA.
4.50
2.75
5.50
.50
6.50
Ø7.86
6.74
2.23
8.43
4.50
LEAD HOLE
1.09 DIA.
3.75
3.75
5.68
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: N
VERSION: 03
REVISED: 12:00:21 05/09/2022
TDR: 000001190082
MODEL NO. 36LYD001
REF: -
BY: ENALEM0
B
BALDOR
STD HORZ 182-4T OPEN 36L
36LYD001

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