ABB BALDOR RELIANCE

Customer information packet

UCL570

5-7 AIR OVERHP, 3450RPM, 1PH, 60HZ, 182TZ, 36
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPAO
Frame	182TZ
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	7.000 HP @ 60 HZ
	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	35.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
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	35.0 a
Insulation Class	F

Part Detail

Revision	Q
Type	AC
Mech. spec.	36M939
Base	
Status	PRD/A
Elec. spec.	36WG3027
Layout	36LYM939
Eff. date	01-02-2025
CD Diagram	CD0017A01
Poles	02
Leads	2#10 A PH,2#16 B PH 30" long Y
Proprietary	False
Created date	02-09-2010

Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.88 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.00
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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1279L									
CAT.NO.	UCL570								
SPEC.	36M939-3027								
HP	5-7 AIR OVER								
VOLTS	230								
AMP	35								
RPM	3450								
FRAME	182TZ	**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	M	**DES**	L		**CL**	F	
NEMA-NOM-EFF	80	**PF**	82						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6205						
ENCL	OPAO	**SN**							

NP1263L									
CAT.NO.	UCL570								
SPEC.	36M939-3027								
HP	5-7 AIR OVER								
VOLTS	230								
AMP	35								
RPM	3450								
FRAME	182TZ		**HZ**	60		**PH**	1		
SER.F.	1.00	**CODE**	M	**DES**	L	**CL**	F		
NEMA-NOM-EFF	80	**PF**	82						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6205						
ENCL	OPAO	**SN**							

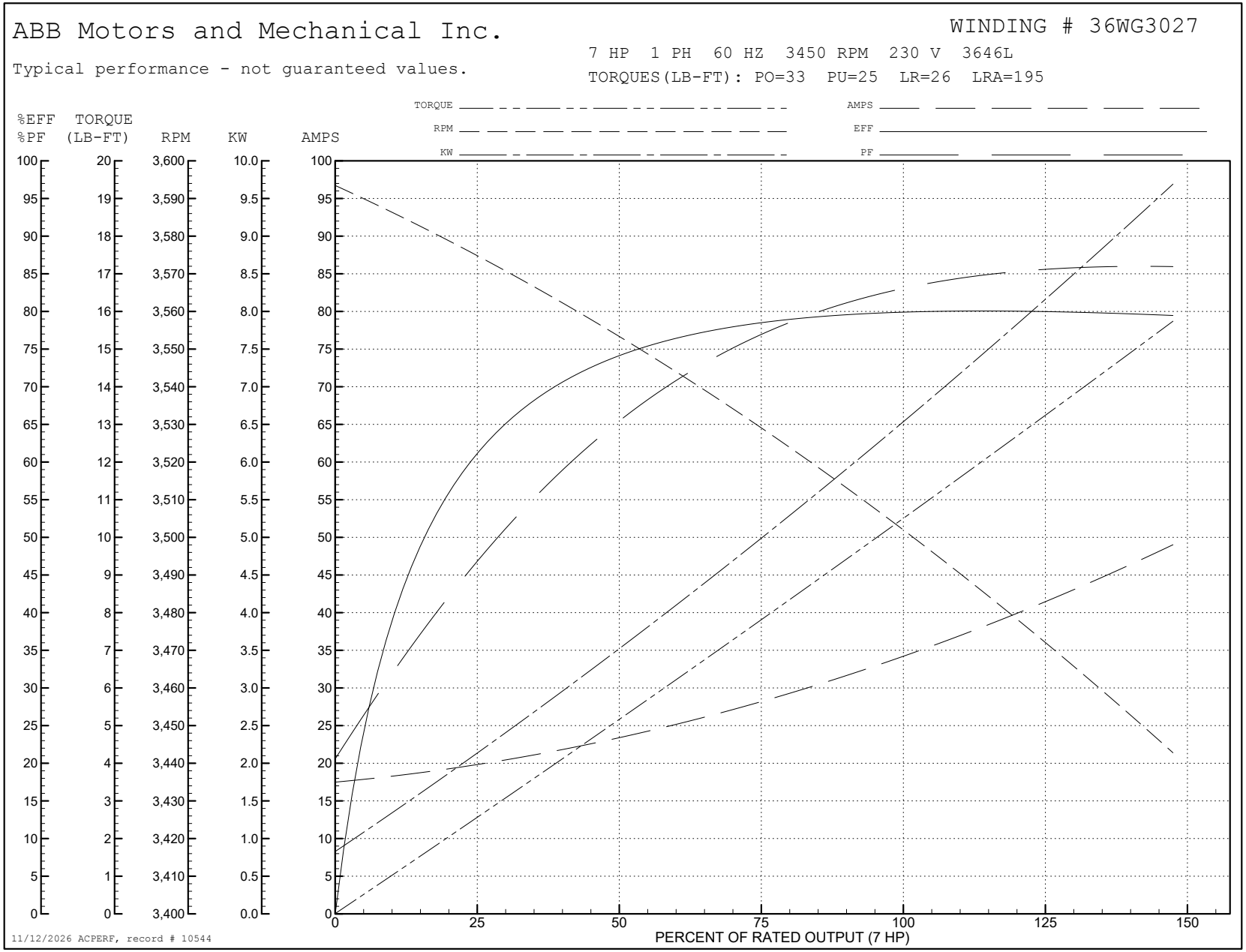
AC Induction Motor Performance Data
Record # 10544
Typical performance - not guaranteed values

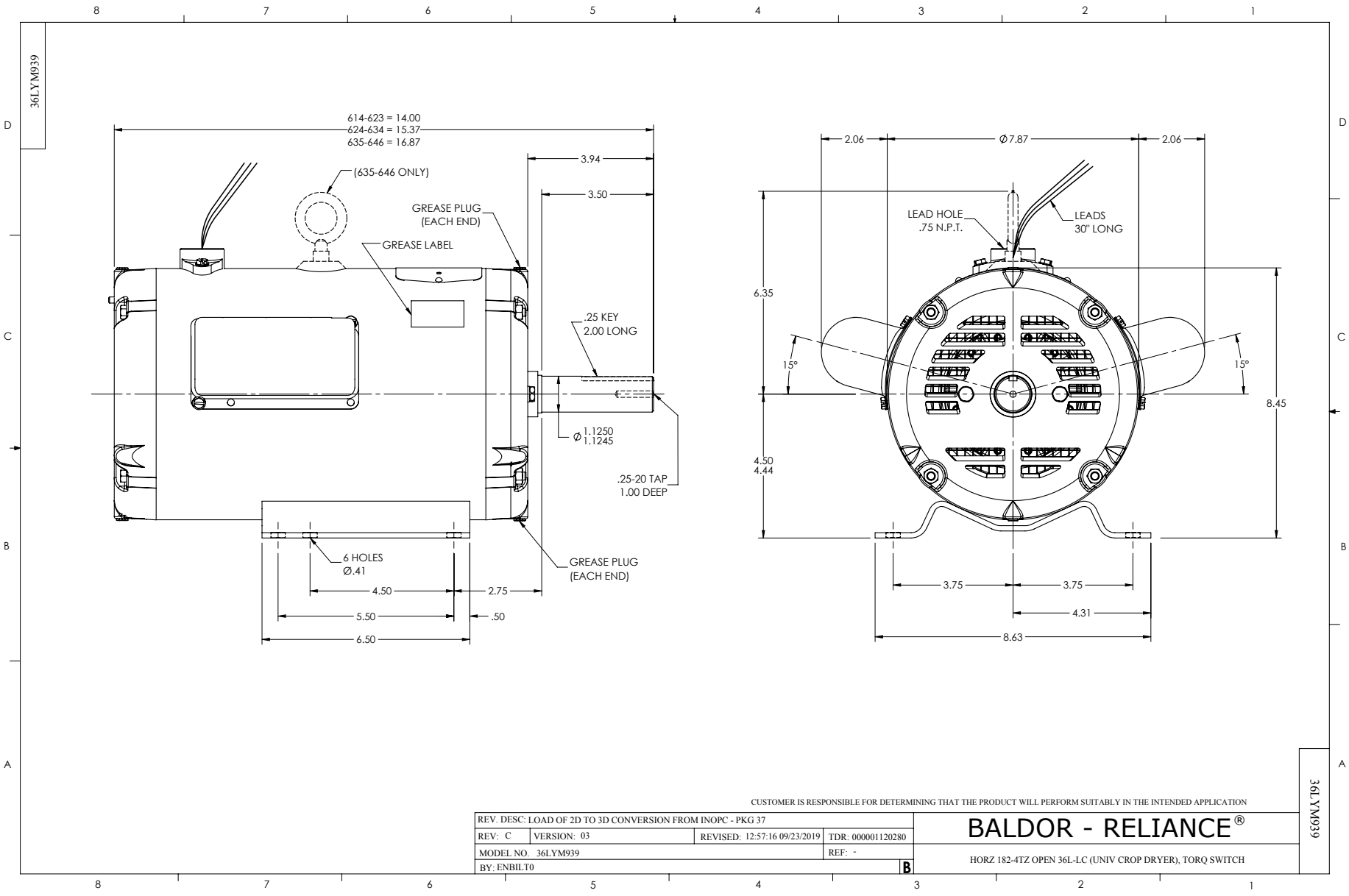
Winding: 36WG3027-R001	**Type:** 3646L	**Enclosure:** OPAO

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5-7 AIR OVER	**Full Load Torque**	10.5 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			35	**Breakdown Torque**	33 LB-FT
R.P.M.			3450	**Pull-up Torque**	25 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	26 LB-FT
NEMA Design Code	L	**KVA Code**	M	**Starting Current**	195 A
Service Factor (S.F.)			1	**No-load Current**	17.7 A
NEMA Nom. Eff.	80	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.206 Ω A Ph 1.08 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

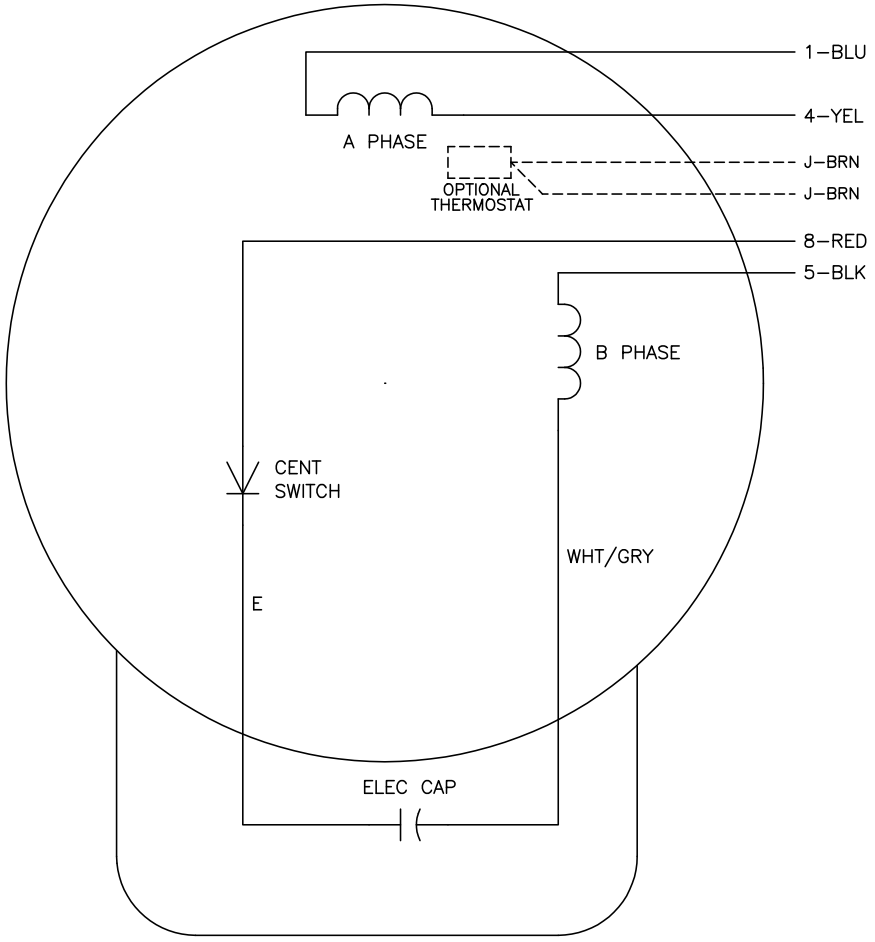
Load Characteristics 230 V, 60 Hz, 7 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	47	66	77	83	86	88
Efficiency	61.2	74	78.5	80.1	80.2	79.3
Speed	3574	3552	3528	3503	3474	3442
Line amperes	19.6	23.4	28.4	34.4	41.2	48.9


ABB Motors and Mechanical Inc.
WINDING # 36WG3027
7 HP 1 PH 60 HZ 3450 RPM 230 V 3646L
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=33 PU=25 LR=26 LRA=195
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7 HP)
11/12/2026 ACPERF, record # 10544


36LYM939
614-623 = 14.00
624-634 = 15.37
635-646 = 16.87
3.94
3.50
(635-646 ONLY)
GREASE PLUG
(EACH END)
GREASE LABEL
.25 KEY
2.00 LONG
Ø 1.1250
1.1245
.25-20 TAP
1.00 DEEP
6 HOLES
Ø.41
GREASE PLUG
(EACH END)
4.50
2.75
5.50
.50
6.50
2.06
Ø7.87
2.06
LEAD HOLE
.75 N.P.T.
LEADS
30" LONG
6.35
15°
15°
8.45
4.50
4.44
3.75
3.75
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD OF 2D TO 3D CONVERSION FROM INOPC - PKG 37
REV: C
VERSION: 03
REVISED: 12:57:16 09/23/2019
TDR: 000001120280
MODEL NO. 36LYM939
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HORZ 182-4TZ OPEN 36L-LC (UNIV CROP DRYER), TORQ SWITCH
36LYM939

CD0017A01



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	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.

CD0017A01

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/08/99 1:18	TDR: 0178636
CD0017A01		FILE: AAA00007513	MDL: –
		MTL: –	TYPE L, SV, REV, 4 LEADS