ABB BALDOR RELIANCE

Customer information packet

UCL710

7.5-10 AIR OVERHP, 3450RPM, 1PH, 60HZ, 182TZ
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
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, Cap Run
Output @ Frequency	7.500 HP @ 60 HZ
	10.000 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	31.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.0 %
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	31.0 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	36M939
Base	
Status	PRD/A
Elec. spec.	36WGW041
Layout	36LYM939
Eff. date	01-02-2025
CD Diagram	CD0208
Poles	02
Leads	2#10 A PH,3#16 B PH 30" long Y
Proprietary	False
Created date	02-09-2010

Inverter Code	Not Inverter
KVA Code	F
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	3646LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.88 IN
Power Factor	93
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.	UCL710								
SPEC.	36M939W041G1								
HP	7.5-10 AIR OVER								
VOLTS	230								
AMP	31-42								
RPM	3450								
FRAME	182TZ	**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	F	**DES**	L	**CL**	F		
NEMA-NOM-EFF	85	**PF**	93						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6205						
ENCL	OPEN	**SN**							

NP1263L								
CAT.NO.	UCL710							
SPEC.	36M939W041G1							
HP	7.5-10 AIR OVER							
VOLTS	230							
AMP	31-42							
RPM	3450							
FRAME	182TZ	**HZ**	60	**PH**	1			
SER.F.	1.00	**CODE**	F	**DES**	L	**CL**	F	
NEMA-NOM-EFF	85	**PF**	93					
RATING	40C AMB-CONT							
CC								
DE	6206	**ODE**	6205					
ENCL	OPEN	**SN**						

Parts List

Part number	Description	Quantity
SA190938	SA 36M939W041G1	1.000 ea
RA178603	RA 36M939W041G1	1.000 ea
OC3040F18SP	7YL OIL CAP 40MFD/370V	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	2.000 ea
HA6021A01SP	ADAPTOR, MACH	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
36EP3204C00	MASTER ODE,205 BRG,GRSR,GRSR	1.000 ea
HA1103A08	RODENT SCREEN, 36 FRAME, OPEN, 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
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	4.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3205E00	MASTER DE,206 BRG,1.438SH,GRSR,GRSR,LCK	1.000 ea
HA1103A10	RODENT SCREEN, 36 FRAME, OPEN, PULLEY EN	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
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
10XN2520A20	1/4-20X 1 1/4 HEX HD X	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
HW2501E18	KEY, 1/4 SQ X 2.000	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1001	LABEL, GREASE-EXXON POLYREX EM	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
LD5000A45	LEAD ASSY, ML1400DF10 W/#10 RING 36"	1.000 ea
SP5172A13	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea

WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	6.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	2.000 ea
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.022 ga
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0208	CONNECTION LABEL	1.000 ea
NP1279L	ALUM FARM DUTY UL CSA CC	1.000 ea
NP1263L	AUX, GP, ALUM, CC, LASER ETCHED	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea
PE-0000004	ZRTG PE ASSEMBLY	1.000 ea

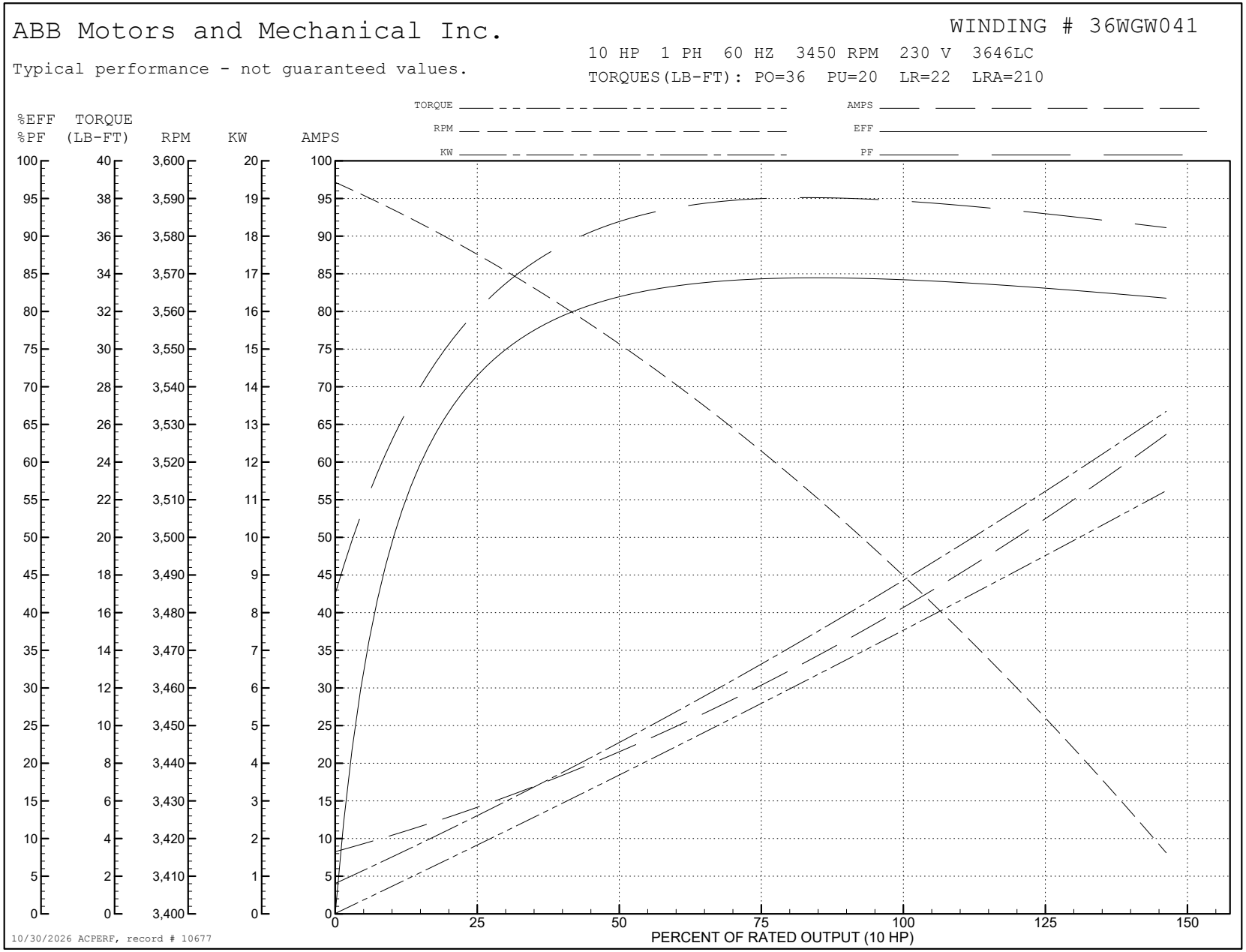
AC Induction Motor Performance Data
Record # 10677
Typical performance - not guaranteed values

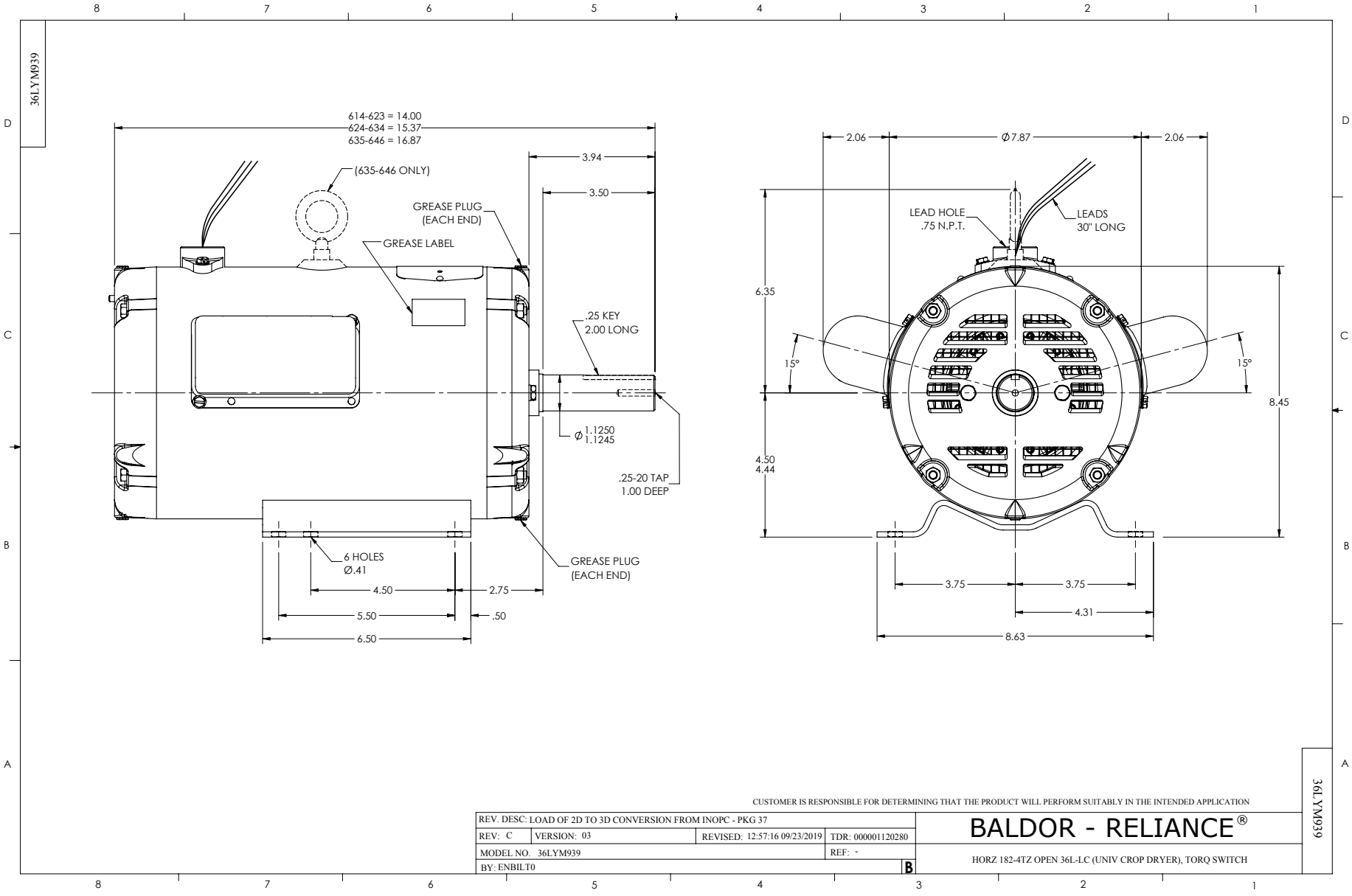
Winding: 36WGW041-R001	**Type:** 3646LC	**Enclosure:** OPAO

Nameplate Data			**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		7.5-10 AIR OVER	**Full Load Torque**	15 LB-FT
Volts		230	**Start Configuration**	direct on line
Full Load Amps		31-42	**Breakdown Torque**	36 LB-FT
R.P.M.		3450	**Pull-up Torque**	20 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	22 LB-FT
NEMA Design Code	L **KVA Code**	F	**Starting Current**	210 A
Service Factor (S.F.)		1	**No-load Current**	8.4 A
NEMA Nom. Eff.	85 **Power Factor**	93	**Line-line Res. @ 25ºC**	0.206 Ω A Ph 1.09 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	

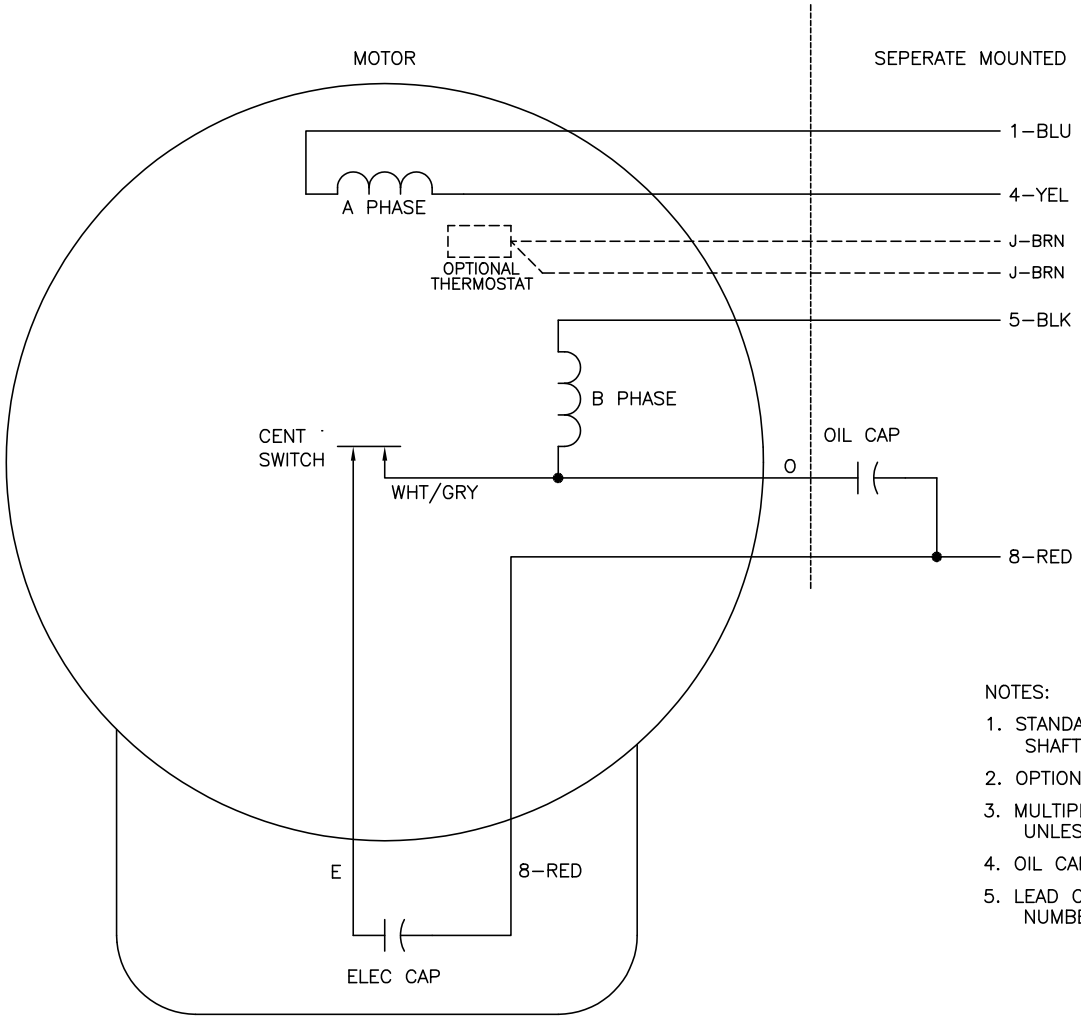
Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	82	91	94	95	94	94
Efficiency	71	81.4	84.3	84.6	83.5	81.5
Speed	3573	3549	3522	3492	3457	3414
Line amperes	13.97	21.8	30.8	40.6	51.4	63.8


ABB Motors and Mechanical Inc.
WINDING # 36WGW041
10 HP 1 PH 60 HZ 3450 RPM 230 V 3646LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=36 PU=20 LR=22 LRA=210
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
10/30/2026 ACPERF, record # 10677


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

CD0208



	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. OIL CAPACITOR(S) ARE SEPERATELY MOUNTED.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0208

REV. DESC: REVISE TO MATCH LC0208			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/09/01 5:10	TDR: 0228770
CD0208		FILE: AAA00026902	REF: –
		MTL: –	TYPE LC, SV, REV, SEP MTD OIL CAP(S), 5 LEADS