ABB BALDOR RELIANCE

Customer information packet

UCL1015

10-15 AIR OVERHP, 3450RPM, 1PH, 60HZ, 215Z, 3
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	215Z
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	15.000 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	44.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
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	44.0 a
Insulation Class	F

Part Detail

Revision	U
Type	AC
Mech. spec.	37M291
Base	
Status	PRD/A
Elec. spec.	37WGW198
Layout	37LYM291
Eff. date	01-02-2025
CD Diagram	CD0208
Poles	02
Leads	2#8 A PH,2#14 B PH 32" long Y
Proprietary	False
Created date	01-07-2010

Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	2 @ 8 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.81 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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.	UCL1015								
SPEC.	37M291W198								
HP	10-15 AIR OVER								
VOLTS	230								
AMP	45-64								
RPM	3450								
FRAME	215Z	**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	G	**DES**	L	**CL**	F		
NEMA-NOM-EFF	84	**PF**	89						
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	OPEN	**SN**							

NP1263L								
CAT.NO.	UCL1015							
SPEC.	37M291W198							
HP	10-15 AIR OVER							
VOLTS	230							
AMP	45-64							
RPM	3450							
FRAME	215Z	**HZ**	60	**PH**	1			
SER.F.	1.00	**CODE**	G	**DES**	L	**CL**	F	
NEMA-NOM-EFF	84	**PF**	89					
RATING	40C AMB-CONT							
CC								
DE	6307	**ODE**	6206					
ENCL	OPEN	**SN**						

Parts List

Part number	Description	Quantity
SA189556	SA 37M291W198	1.000 ea
RA177266	RA 37M291W198	1.000 ea
OC3040F18SP	7YL OIL CAP 40MFD/370V	1.000 ea
EC1340C06	ELEC CAP, 340-408MFD, 250V, 2.06D X 4.	2.000 ea
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	2.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
HA6011A01	ADAPTOR, MACH	1.000 ea
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	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
37EP3203C00	MASTER,ODE,206 BRG,2 GREASERS	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
HA1104A01	RODENT SCREEN 37 FRAME 206 BRG 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
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	2.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	4.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3204C00	MASTER,DE,307 BRG,2 GREASERS,LOCKED BEAR	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
HA1104A05	RODENT SCREEN 37 FRAME 207 BRG PULLEY EN	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 ea
HW1025A10	#10 BALANCE WASHER (SPL)	2.000 ea
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
LB1001	LABEL, GREASE-EXXON POLYREX EM	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HW2501E18	KEY, 1/4 SQ X 2.000	1.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.028 ga
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	6.000 ea
LD5000B36	LEAD ASSY, ML1400DF08 W/#10 RING 37"	1.000 ea
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
SP5172A10	TORQ MODEL 37 TYPE LC SPLIT CAPS,	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MP1002A24	6" X 16" .65 MIL. CLEAR PLASTIC BAG	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
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000004	ZRTG PE ASSEMBLY	1.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 11817
Typical performance - not guaranteed values

Winding: 37WGW198-R001	**Type:** 3744LC	**Enclosure:** OPAO

Nameplate Data			
Rated Output (HP)			10-15 AIR OVER
Volts			230
Full Load Amps			45-64
R.P.M.			3450
Hz	60	**Phase**	1
NEMA Design Code	L	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	84	**Power Factor**	89
Rating - Duty			40C AMB-CONT

230 V, 60 Hz: Single Voltage Motor	
Full Load Torque	22.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	53 LB-FT
Pull-up Torque	37.9 LB-FT
Locked-rotor Torque	42.3 LB-FT
Starting Current	394 A
No-load Current	18 A
Line-line Res. @ 25ºC	0.134 Ω A Ph 0.774 Ω B Ph
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	65.5
Rotor inertia	0.41 lb-ft²

Load Characteristics 230 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	73	86	91	92	92	89
Efficiency	68.6	79.6	82.6	82.8	80	76
Speed	3575	3555	3531	3498	3460	3400
Line amperes	24.8	36	48.7	64	81.7	105

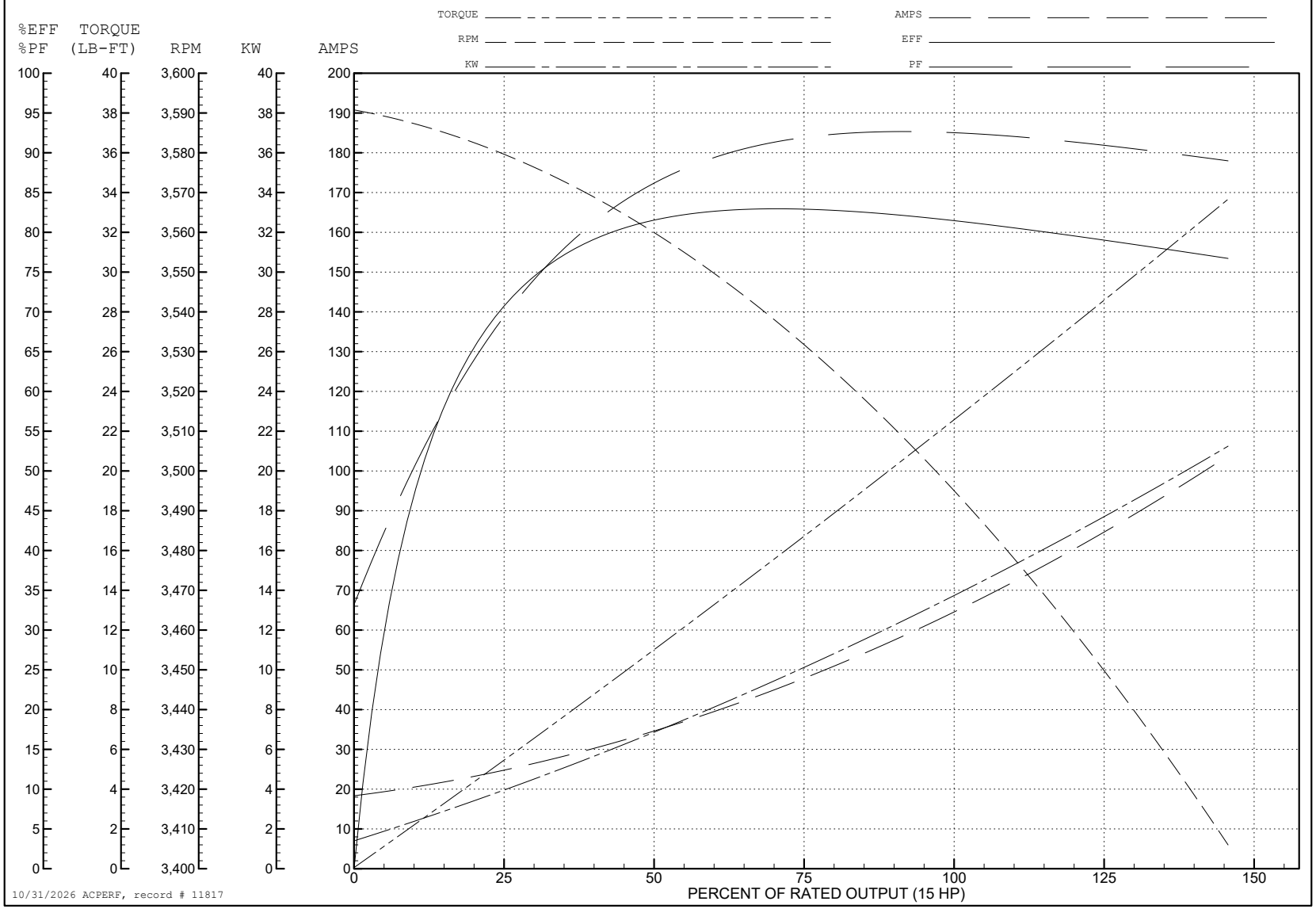
ABB Motors and Mechanical Inc.

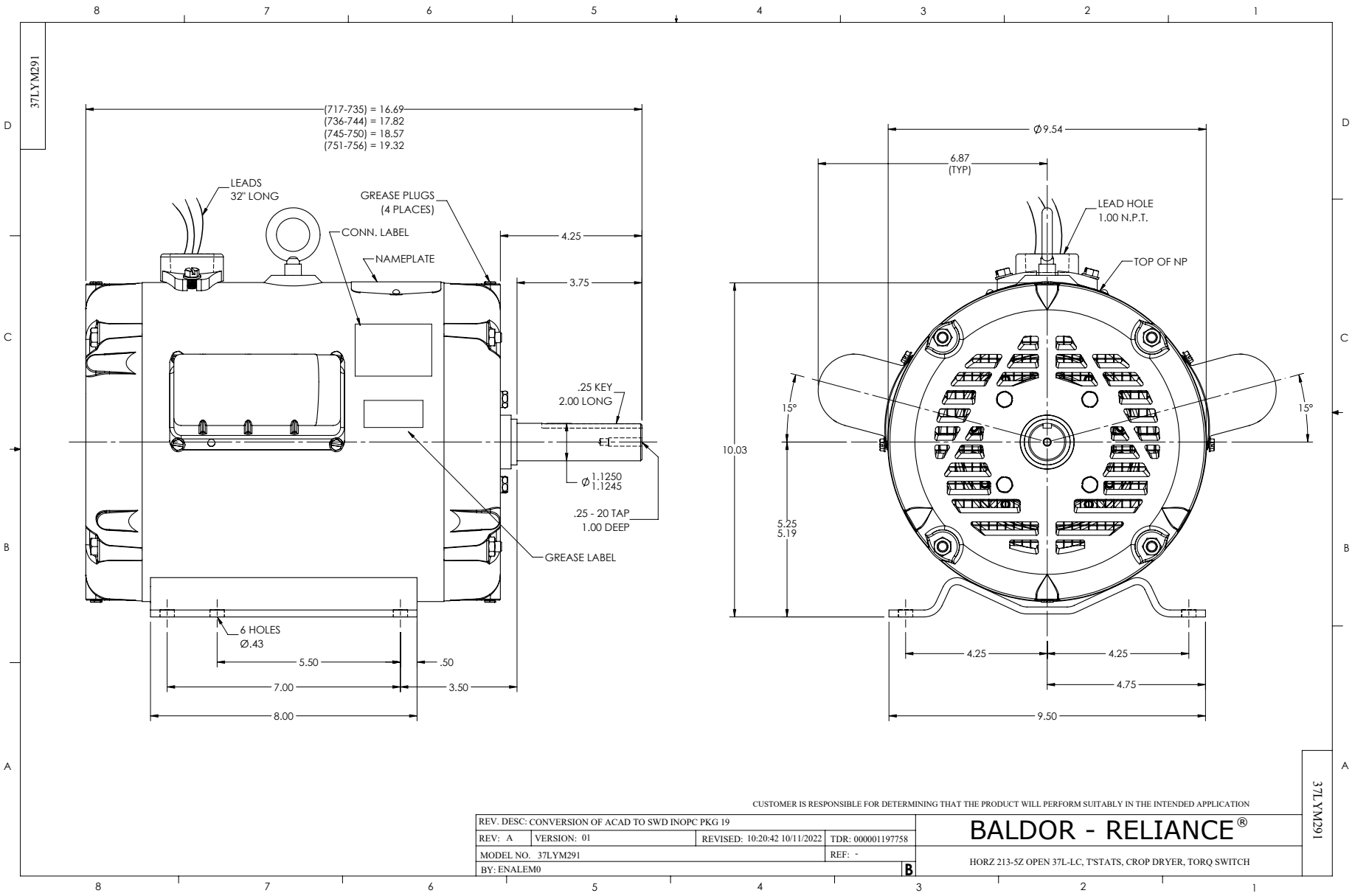
WINDING # 37WGW198

15 HP 1 PH 60 HZ 3450 RPM 230 V 3744LC

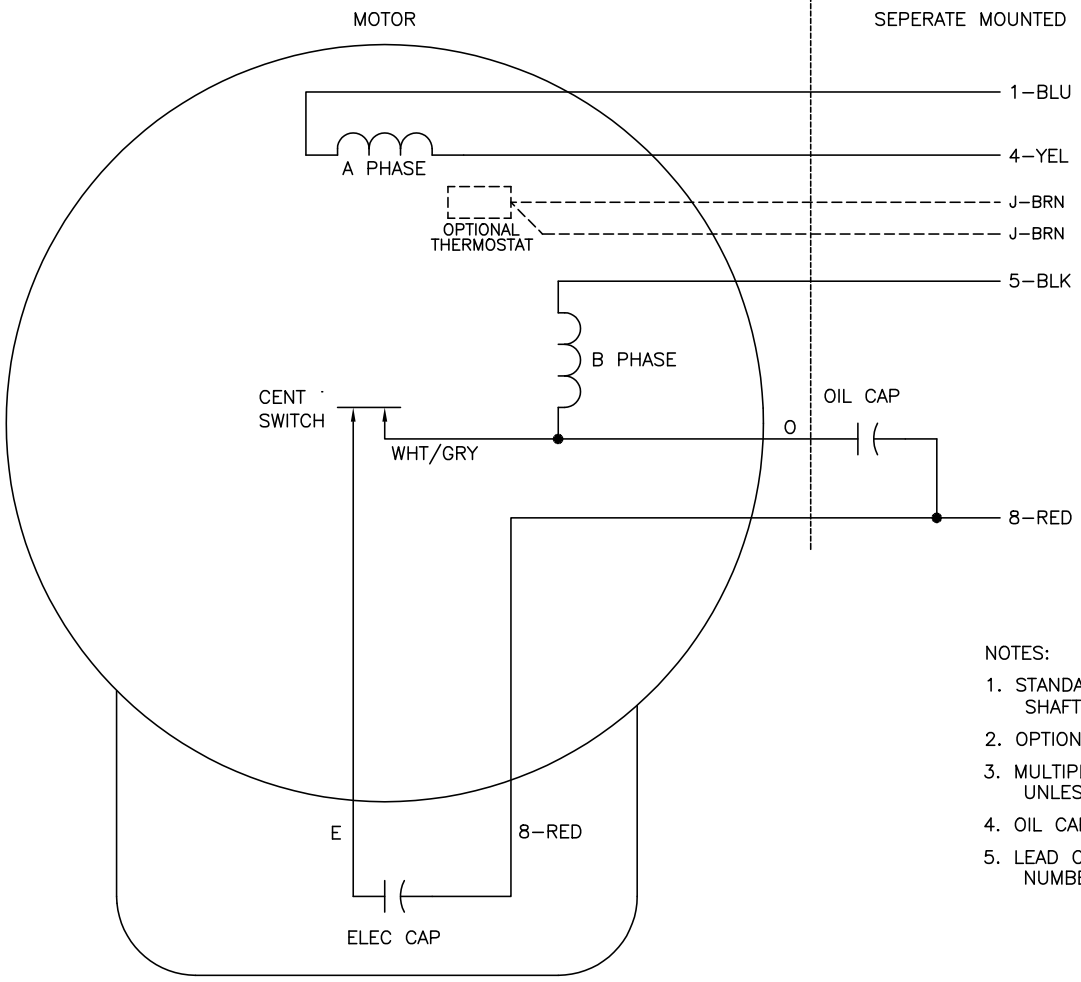
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=53 PU=37.9 LR=42.3 LRA=394




37LYM291
(717-735) = 16.69
(736-744) = 17.82
(745-750) = 18.57
(751-756) = 19.32
LEADS
32" LONG
GREASE PLUGS
(4 PLACES)
CONN. LABEL
NAMEPLATE
4.25
3.75
.25 KEY
2.00 LONG
Ø 1.1250
1.1245
.25 - 20 TAP
1.00 DEEP
GREASE LABEL
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.54
6.87
(TYP)
LEAD HOLE
1.00 N.P.T.
TOP OF NP
15°
15°
10.03
5.25
5.19
4.25
4.25
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: A
VERSION: 01
REVISED: 10:20:42 10/11/2022
TDR: 000001197758
MODEL NO. 37LYM291
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5Z OPEN 37L-LC, T'STATS, CROP DRYER, TORQ SWITCH
37LYM291

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