ABB BALDOR RELIANCE

Customer information packet

UCL3145

3-4.5HP, 3450RPM, 1PH, 60HZ, 145TZ, 3540LC
Class - None
Division - Not Applicable

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Specifications

Enclosure	OLC
Frame	145TZ
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	4.500 HP @ 60 HZ
	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	14.300 A @ 230.0 V
	21.500 A @ 208.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.8 %
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	14.3 a
Insulation Class	F

Part Detail

Revision	AR
Type	AC
Mech. spec.	35T926
Base	
Status	PRD/A
Elec. spec.	35WGT819
Layout	35LYT926
Eff. date	01-02-2025
CD Diagram	CD0017A02
Poles	02
Leads	2#12 A PH 30"LG,2#18 B PH Y
Proprietary	False
Created date	06-22-2007

Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	2 @ 12 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.62 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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	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.	UCL3145								
SPEC.	35T926T819								
HP	3-4.5 AIR OVER								
VOLTS	230								
AMP	14.3-20								
RPM	3450								
FRAME	145TZ	**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	J	**DES**	-	**CL**	F		
NEMA-NOM-EFF	77.8	**PF**	91						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6203						
ENCL	OLC	**SN**							

NP1263L							
CAT.NO.	UCL3145						
SPEC.	35T926T819						
HP	3-4.5 AIR OVER						
VOLTS	230						
AMP	14.3-20						
RPM	3450						
FRAME	145TZ	**HZ**	60	**PH**	1		
SER.F.	1.00	**CODE**	J	**DES**	-	**CL**	F
NEMA-NOM-EFF	77.8	**PF**	91				
RATING	40C AMB-CONT						
CC							
DE	6206	**ODE**	6203				
ENCL	OLC	**SN**					

Parts List

Part number	Description	Quantity
SA108772	SA 35T926T819	1.000 ea
RA100294	RA 35T926T819	1.000 ea
OC3030F11SP	CAPACITOR 30 MFD 370 VAC	1.000 ea
EC4270C06	ELEC CAP, 270-324 MFD, 250V, 2.06D X 4.	1.000 ea
HA6021A01SP	ADAPTOR, MACH	1.000 ea
36GS5000	GASKET CONDUIT ADAPTOR	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XT1032G04	10-32 X 1/4" GRD SCREW	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35EP3209A01	A00 W/2ND GRSR	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
HA1100A03	SCREEN, RODENT	1.000 ea
51XT1032A04	10-32X1/4 HX WA SL SR TYT (F/S)	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	4.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3207A05	EP PU OPEN W/206 BRG, (2) GREASERS & LOC	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	2.000 ea
HA1100A08	35 RODENT SCREEN OPEN 206 BRG (35EP3207)	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	2.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1001	LABEL, GREASE-EXXON POLYREX EM	1.000 ea
LD5000A642	LEAD ASSY, ML1400DF14 W/#10 RING 36"	1.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025C02	WILKOFAST SG, 787.105, TAN	0.017 ga
SP5181A10	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
HA3100A42	THRUBOLT 10-32 X 12.000	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	2.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
NP1279L	ALUM FARM DUTY UL CSA CC	1.000 ea
NP1263L	AUX, GP, ALUM, CC, LASER ETCHED	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea

AC Induction Motor Performance Data
Record # 9620
Typical performance - not guaranteed values

Winding: 35WGT819-R001	**Type:** 3540LC	**Enclosure:** OPAO

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3-4.5 AIR OVER	**Full Load Torque**	6.8 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			14.3-20	**Breakdown Torque**	17 LB-FT
R.P.M.			3450	**Pull-up Torque**	10.5 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	13 LB-FT
NEMA Design Code	-	**KVA Code**	J	**Starting Current**	136 A
Service Factor (S.F.)			1	**No-load Current**	7.1 A
NEMA Nom. Eff.	77.8	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.462 Ω A Ph 2.24 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

Load Characteristics 230 V, 60 Hz, 4.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	70	83	89	92	93	93
Efficiency	57.4	71.5	76.8	78.5	78.4	77.1
Speed	3569	3544	3516	3486	3451	3409
Line amperes	9.2	12.3	16	20.3	25	30.4

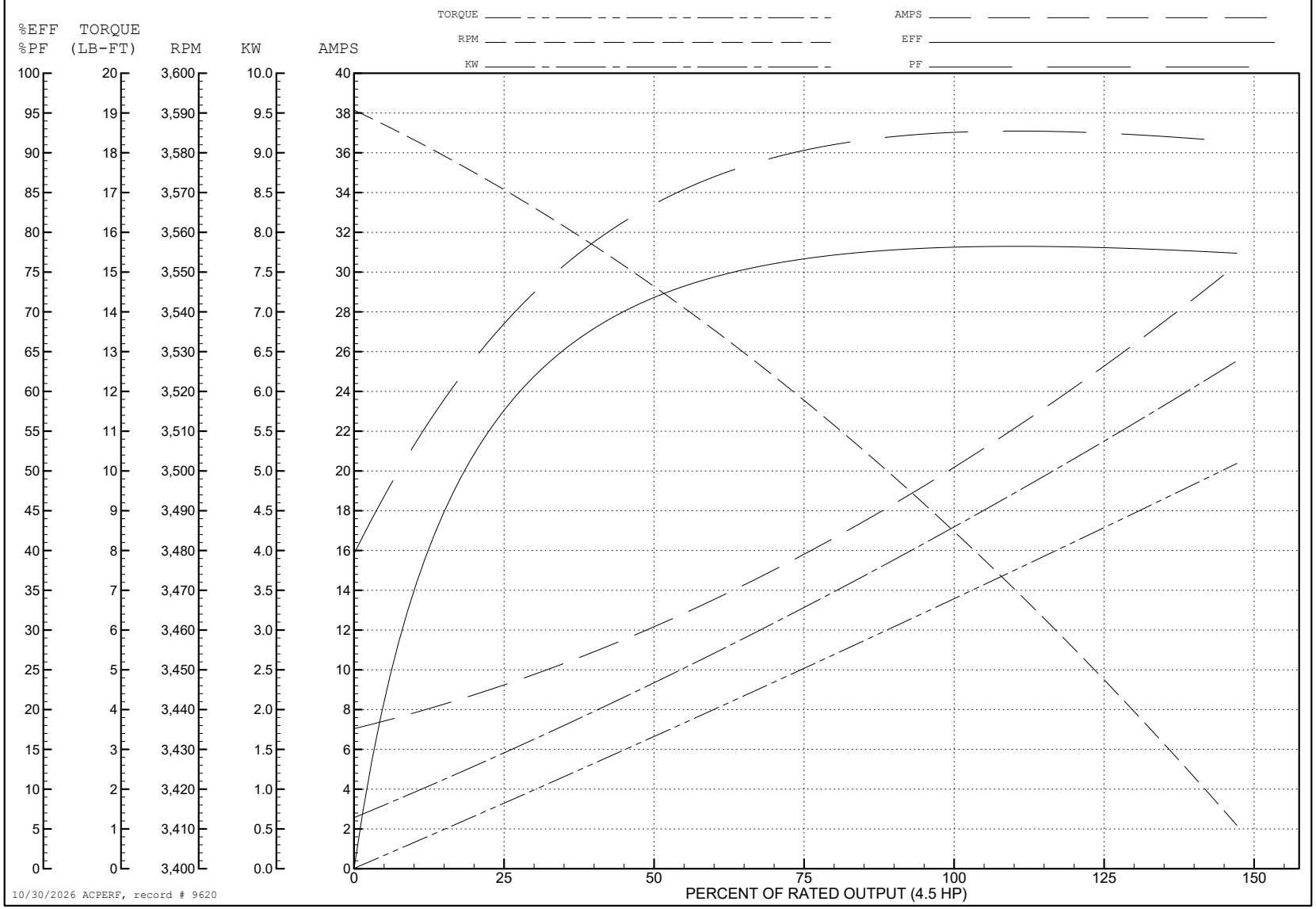
ABB Motors and Mechanical Inc.

WINDING # 35WGT819

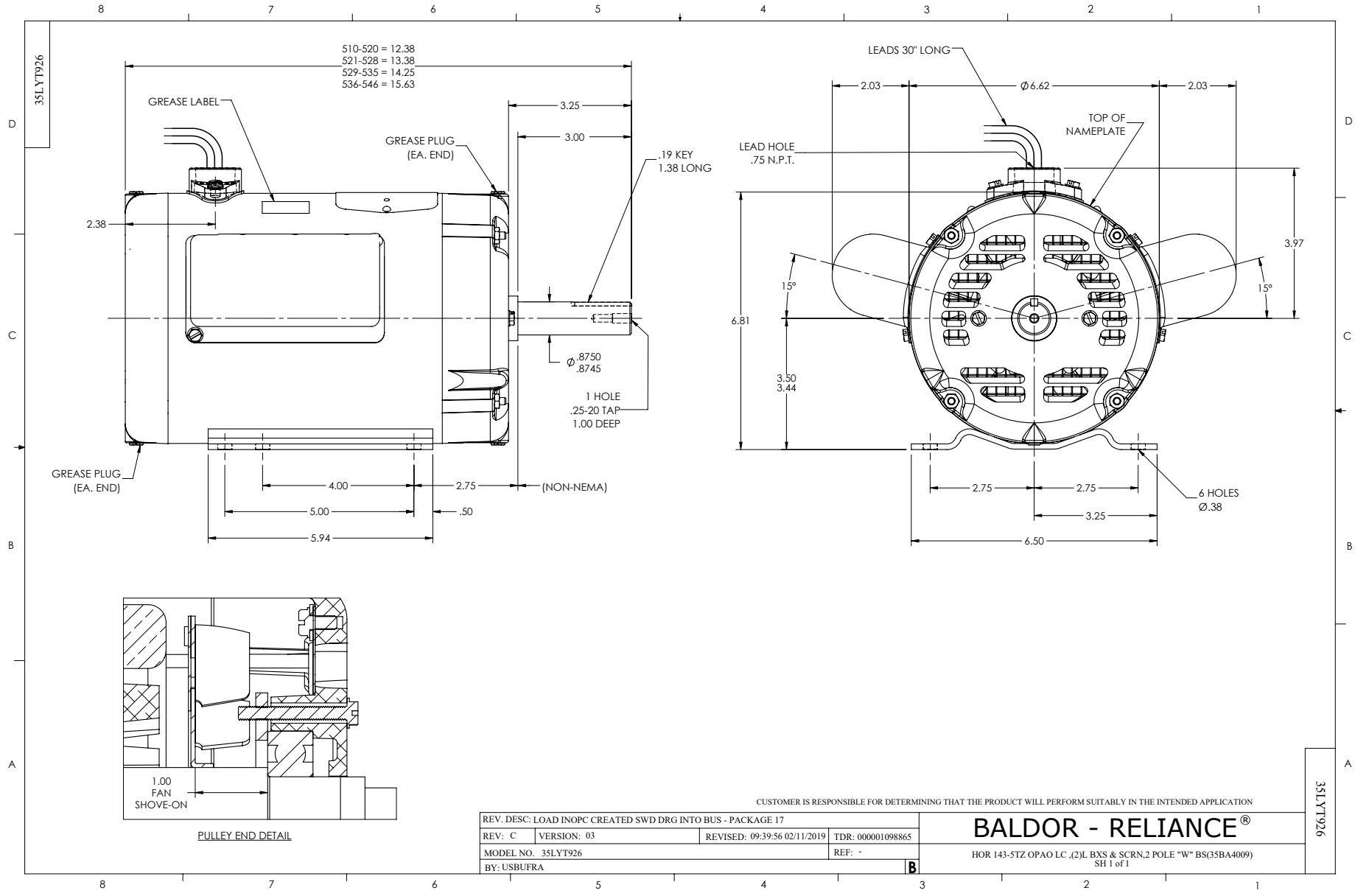
4.5 HP 1 PH 60 HZ 3450 RPM 230 V 3540LC

Typical performance - not guaranteed values.

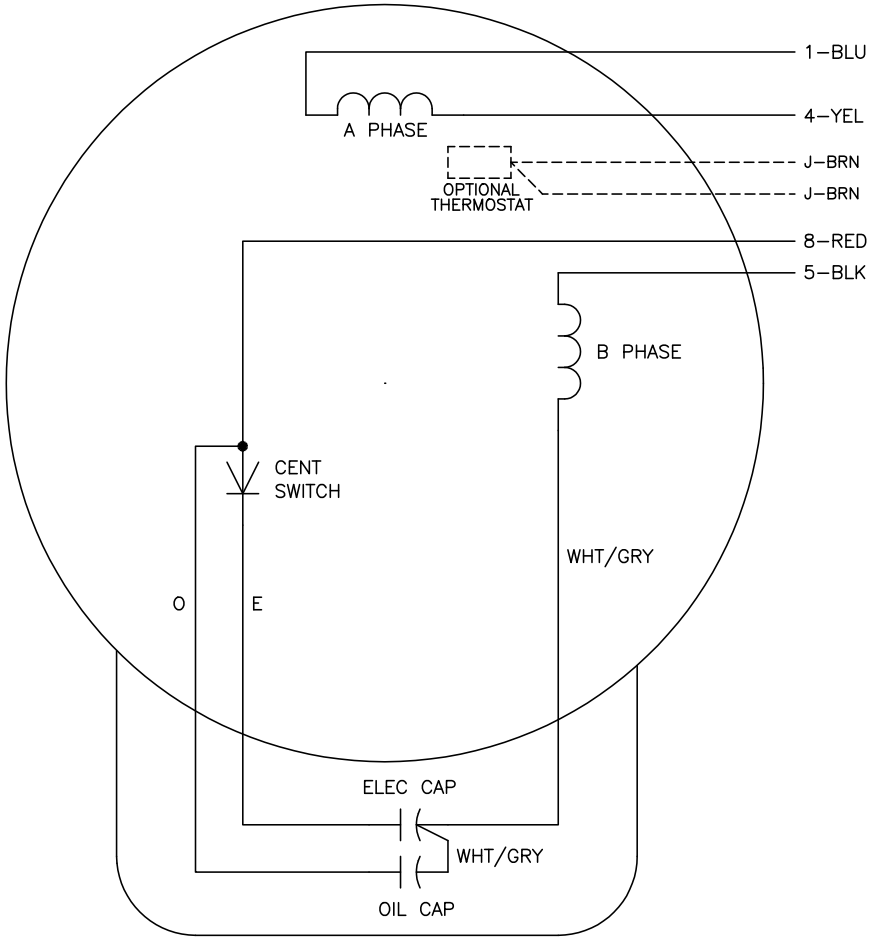
TORQUES(LB-FT): PO=17 PU=10.5 LR=13 LRA=136



10/30/2026 ACPERF, record # 9620


35LYT926
510-520 = 12.38
521-528 = 13.38
529-535 = 14.25
536-546 = 15.63
GREASE LABEL
GREASE PLUG (EA. END)
3.25
3.00
.19 KEY 1.38 LONG
2.38
Ø .8750 .8745
1 HOLE .25-20 TAP 1.00 DEEP
GREASE PLUG (EA. END)
4.00
2.75
(NON-NEMA)
5.00
.50
5.94
LEADS 30" LONG
2.03
Ø6.62
2.03
TOP OF NAMEPLATE
LEAD HOLE .75 N.P.T.
3.97
15°
15°
6.81
3.50
3.44
2.75
2.75
6 HOLES Ø.38
3.25
6.50
1.00 FAN SHOVE-ON
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 17
REV: C
VERSION: 03
REVISED: 09:39:56 02/11/2019
TDR: 000001098865
MODEL NO. 35LYT926
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 143-5TZ OPAO LC ,(2)L BXS & SCRN,2 POLE "W" BS(35BA4009)
SH 1 of 1
35LYT926

CD0017A02



	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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: –
		MTL: –	TYPE LC, SV, REV, 4 LEADS

CD0017A02