ABB BALDOR RELIANCE

Customer information packet

L3612TM

5HP, 1725RPM, 1PH, 60HZ, 184T, 3646LC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184T
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	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	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	23.000 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	23.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	F
Type	AC
Mech. spec.	36G787
Base	
Status	PRD/A
Elec. spec.	36WGW279
Layout	36LYG787
Eff. date	05-09-2024
CD Diagram	CD0152
Poles	04
Leads	2#10 A PH,3#16 B&J
Proprietary	False
Created date	03-02-2010

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Cap Box
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	4
Overall Length	18.04 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	1.00
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	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	L3612TM								
SPEC.	36G787W279G7								
HP	5								
VOLTS	230								
AMP	23								
RPM	1725								
FRAME	184T		**HZ**	60		**PH**	1		
SER.F.	1.00	**CODE**	J	**DES**	L	**CL**	F		
NEMA-NOM-EFF	80	**PF**	88						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							

Parts List

Part number	Description	Quantity
SA191656	SA 36G787W279G7	1.000 ea
RA179315	RA 36G787W279G7	1.000 ea
OC3030F11SP	CAPACITOR 30 MFD 370 VAC	1.000 ea
TPLED1027SP	THERMAL 1PH 1.5 MAN REF LED989 TDR #5817	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	2.000 ea
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3805A06	CAPAC BOX, DIECAST W/CAST LEAD & THERMAL	1.000 ea
37GS3002	GASKET, CAPACITOR BOX	1.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	4.000 ea
HA2001A09	SPACER, .218 ID X .937 LG	2.000 ea
RM1015	BOOT FOR 1.50 MANUAL THERMALS	1.000 ea
51XN1032A28	10-32 X 1 3/4 HX WS SL SR	2.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	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
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
HA6003A16	CLAMP, CAPACITOR SIZE 8 1/4 X 1 1/2 PL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3100A01SP	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A104	IEC FH GREASER W/PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4502	CAPAC BOX LID, STAMPED PLATED	1.000 ea

37GS3003SP	GASKET, CAPAC BOX LID X	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	6.000 ea
SP5172A11	37 TYPE LC TORQ STAT SWITCH LEAD ASSEMBL	1.000 ea
LC0002	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	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-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data
Record # 10712
Typical performance - not guaranteed values

Winding: 36WGW279-R001	**Type:** 3646LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			23	**Breakdown Torque**	43 LB-FT
R.P.M.			1725	**Pull-up Torque**	36 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	46 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	163 A
Service Factor (S.F.)			1	**No-load Current**	10 A
NEMA Nom. Eff.	80	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.353 Ω A Ph 2.23 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	97°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	54	71	85	89	89	91
Efficiency	65	76.1	81.5	80.8	79.3	75.5
Speed	1786	1769	1750	1732	1713	1687
Line amperes	12.7	14	18.5	22.6	27.3	33.5

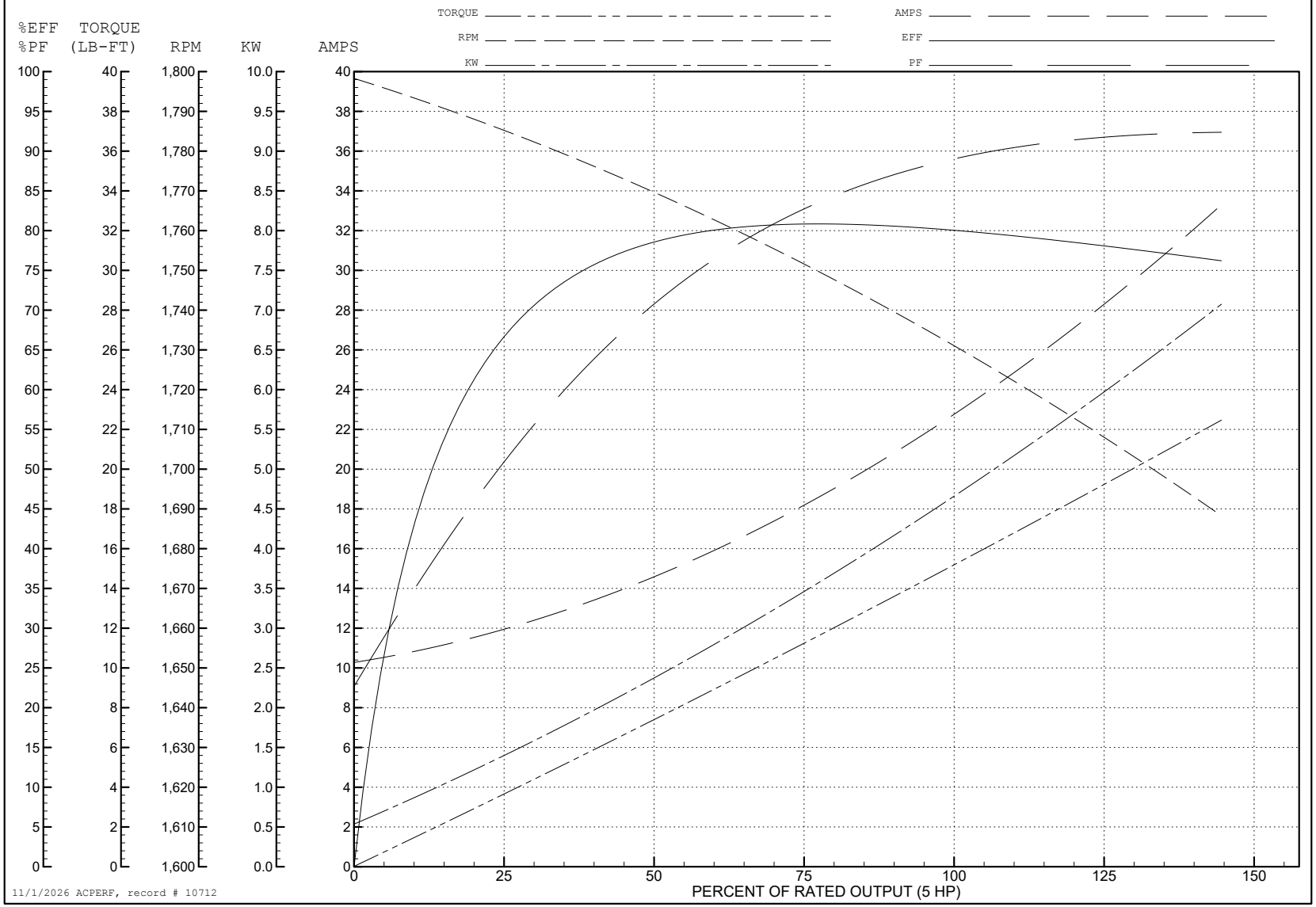
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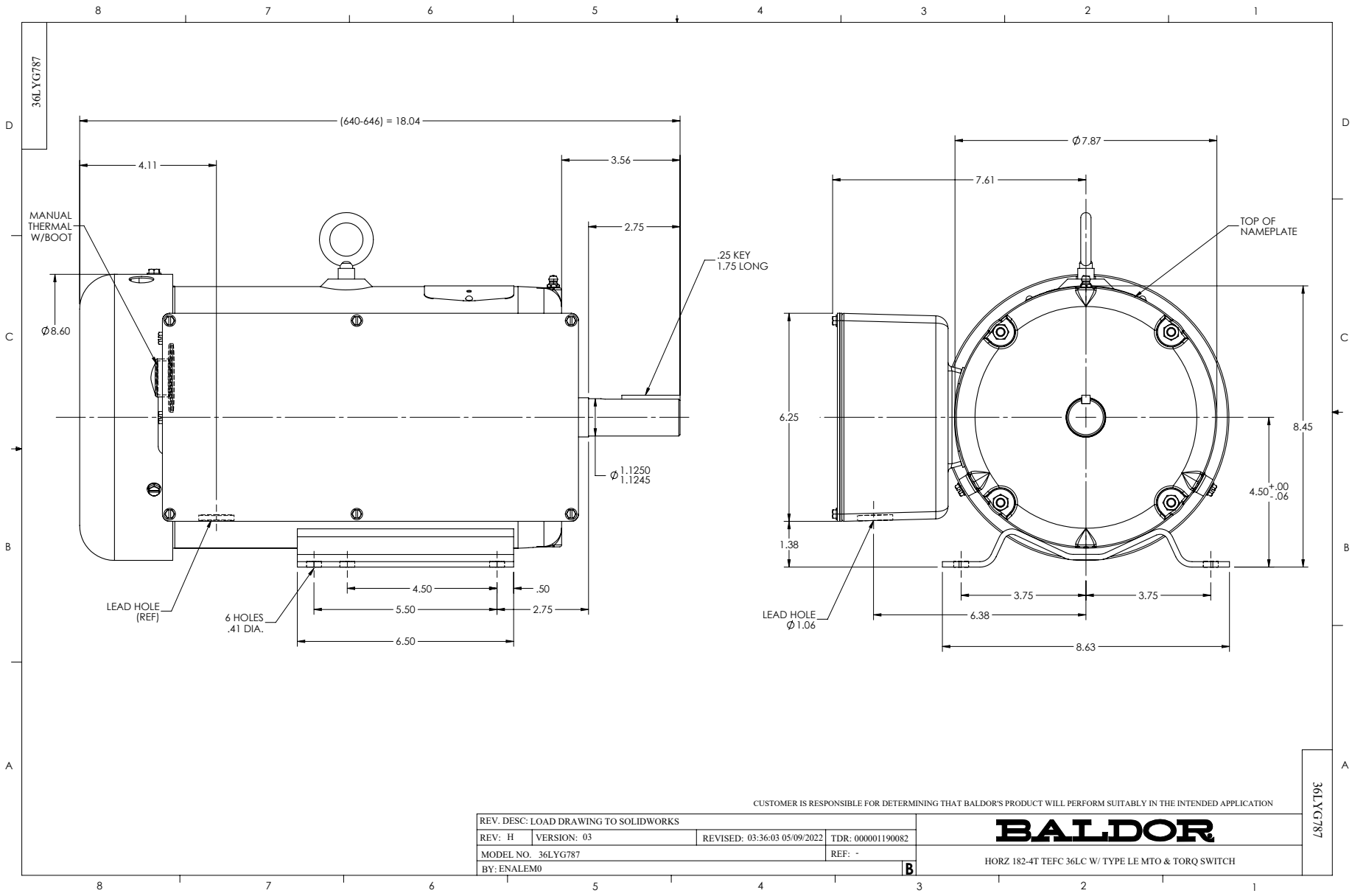
WINDING # 36WGW279

5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

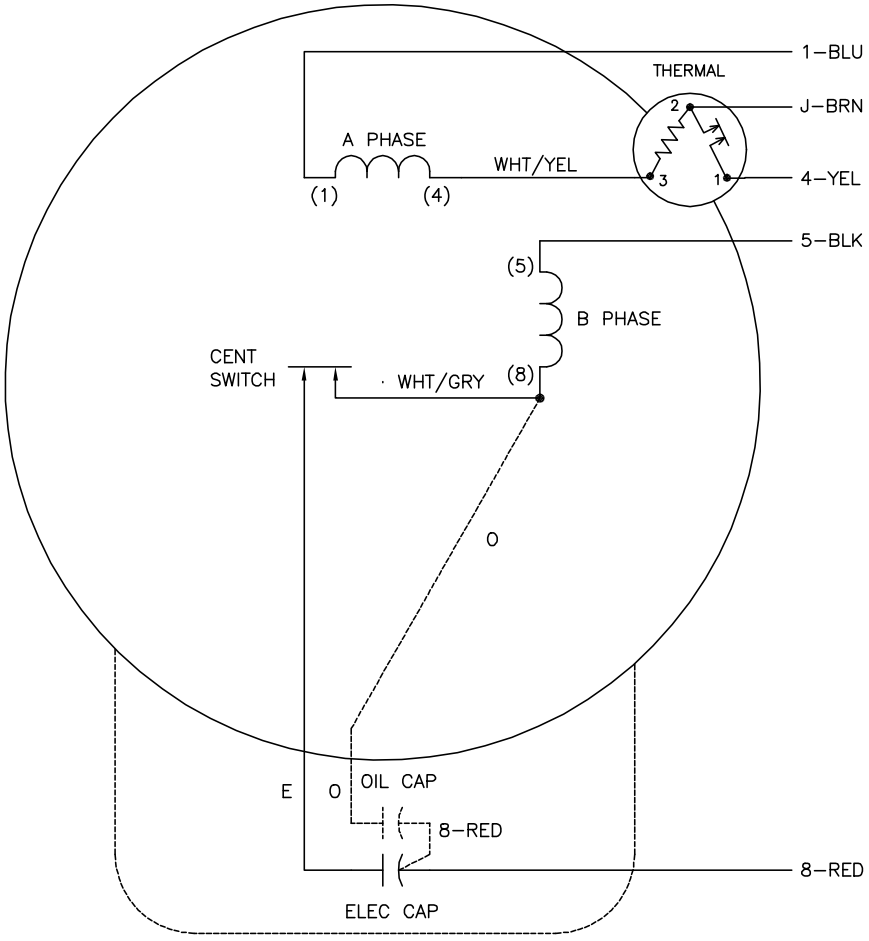
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=43 PU=36 LR=46 LRA=163




36LYG787
(640-646) = 18.04
4.11
3.56
2.75
MANUAL THERMAL W/BOOT
Ø8.60
.25 KEY 1.75 LONG
Ø1.1250 1.1245
LEAD HOLE (REF)
6 HOLES .41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.87
7.61
TOP OF NAMEPLATE
6.25
8.45
4.50 +.00 -.06
1.38
LEAD HOLE Ø1.06
3.75
3.75
6.38
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: H
VERSION: 03
REVISED: 03:36:03 05/09/2022
TDR: 000001190082
MODEL NO. 36LYG787
REF: -
BY: ENALEM0
B
BALDOR
HORZ 182-4T TEFC 36LC W/ TYPE LE MTO & TORQ SWITCH
36LYG787

CD0152



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
4. CAPACITORS MAY BE SEPERATELY MOUNTED.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: D	VERSION: 01	TDR: 000000373039	
CD0152	FILE: \AAA\00026\903	REVISED: 11:23:45 08/11/2005	TYPE L OR LC, SV, REV, 5 LDS, THERM, CAPS MAY BE SEP MTD
	MTL: –	BY: ENJOEP0	

CD0152