

ABB BALDOR RELIANCE III

Customer information packet

FDL3610M

3HP, 1750RPM, 1PH, 60HZ, 184, 3640LC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184
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	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 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	15.500 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	15.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	M
Type	AC
Mech. spec.	36Q171
Base	
Status	PRD/A
Elec. spec.	36WGY739
Layout	36LYQ171
Eff. date	07-25-2024
CD Diagram	CD0002A02
Poles	04
Leads	2#14 A PH,3#16 B&J
Proprietary	False
Created date	12-13-2013

KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.18 IN
Power Factor	76
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	Shaft Slinger
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	FDL3610M								
SPEC.	36Q171Y739G1								
HP	3								
VOLTS	230								
AMP	15.5								
RPM	1750								
FRAME	184		HZ	60		PH	1		
SER.F.	1.00		CODE	M	DES	L	CL	F	
NEMA-NOM-EFF	80		PF	76					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC		SN						

Parts List

Part number	Description	Quantity
SA274229	SA 36Q171Y739G1	1.000 ea
RA260816	RA 36Q171Y739G1	1.000 ea
TPBRD3929SP	THERMAL 1PH 1.25 MAN REF BRD2945 TDR #58	1.000 ea
36CB1000A22	CONDUIT BOX, MACH	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XB1016A10	10-16X 5/8HXWSSLD SERTYB	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
HA6015A08	THERMAL RETAINER (PLATED)	1.000 ea
RM1014A01SP	BUTYL RUB.THRM COV. (MENA)	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	2.000 ea
36EP3104A85	FREP TEFC 36L/M 205 BRG W/EYEBOLT,NO GRS	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
36GS3000	GASKET, CAPACITOR COVER LEXIDE	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36PE3100C11	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4600H12	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A132	IEC FH, NO GRSR & SPL NOTCH (NO DIMPLES)	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HA1005A03SP	SLINGER, OD 1.750, ID .938, 205 BRG	1.000 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
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025C02	WILKOFASST SG, 787.105, TAN	0.022 ga
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
36CB5005A10	CAPACITOR BOX KIT, 36CB3800Z, EC1216C06,	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
SP5172A05	37 TYPE LC TORQ STAT SW LEAD ASSEMBLY	1.000 ea
LC0002	CONNECTION LABEL	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
36-3301FDA	C FACE KIT FARM DUTY F182-4TC, ENCL,	P1

AC Induction Motor Performance Data

Record # 11466

Typical performance - not guaranteed values

Winding: 36WGY739-R001			Type: 3640LC		Enclosure: TEFC			
Nameplate Data				230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		9 LB-FT			
Volts		230	Start Configuration		direct on line			
Full Load Amps		15.5	Breakdown Torque		32 LB-FT			
R.P.M.		1750	Pull-up Torque		31 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		37 LB-FT		
NEMA Design Code		L	KVA Code	M	Starting Current		144 A	
Service Factor (S.F.)		1	No-load Current		10.7 A			
NEMA Nom. Eff.		80	Power Factor		76	Line-line Res. @ 25°C		0.472 Ω A Ph 1.53 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		85°C		

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	39	56	68	76	82	85
Efficiency	53.4	70.8	77.9	81	82	81.9
Speed	1791	1782	1775	1768	1759	1749
Line amperes	10.9	11.8	13.5	15.5	18	20.7

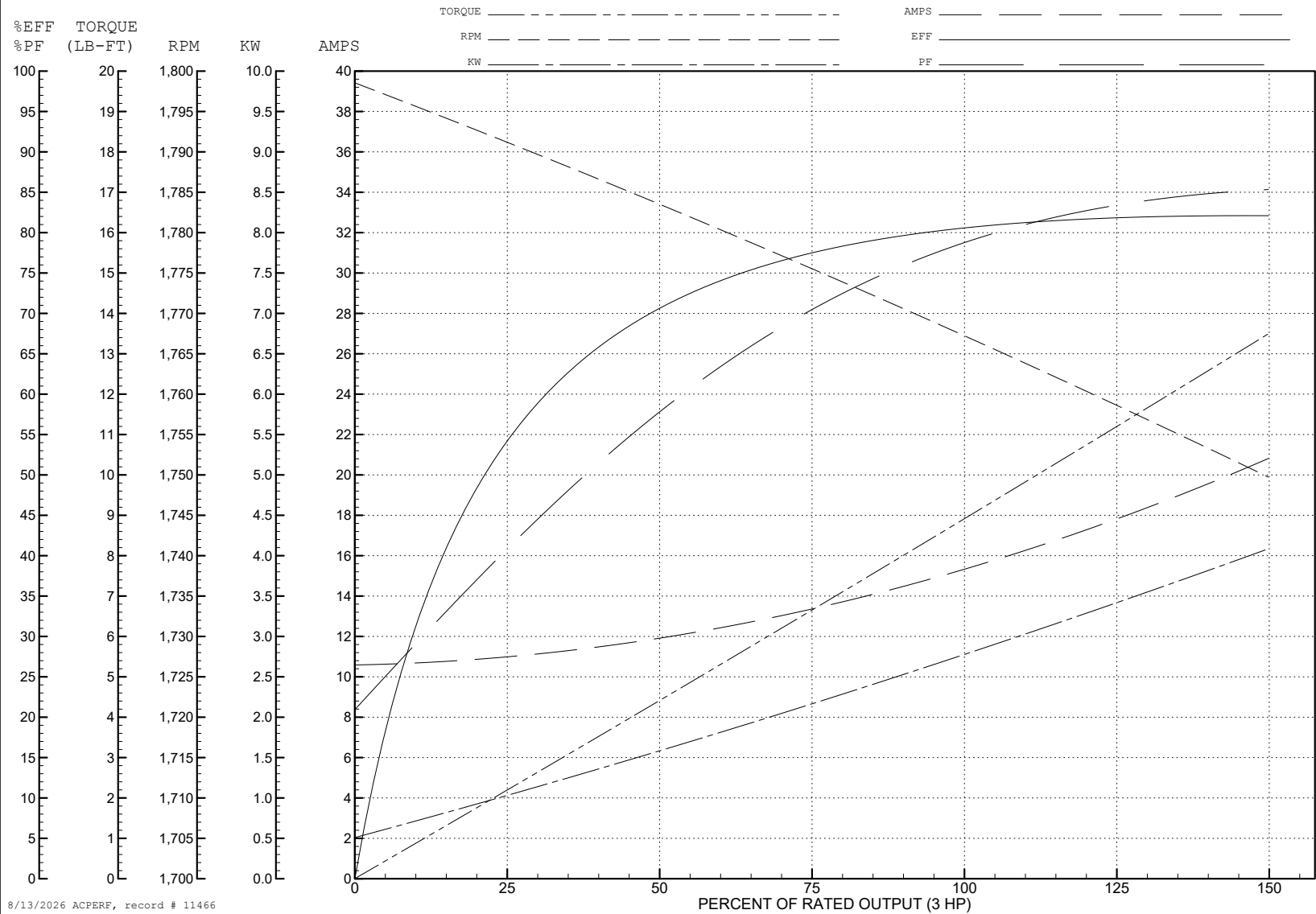
ABB Motors and Mechanical Inc.

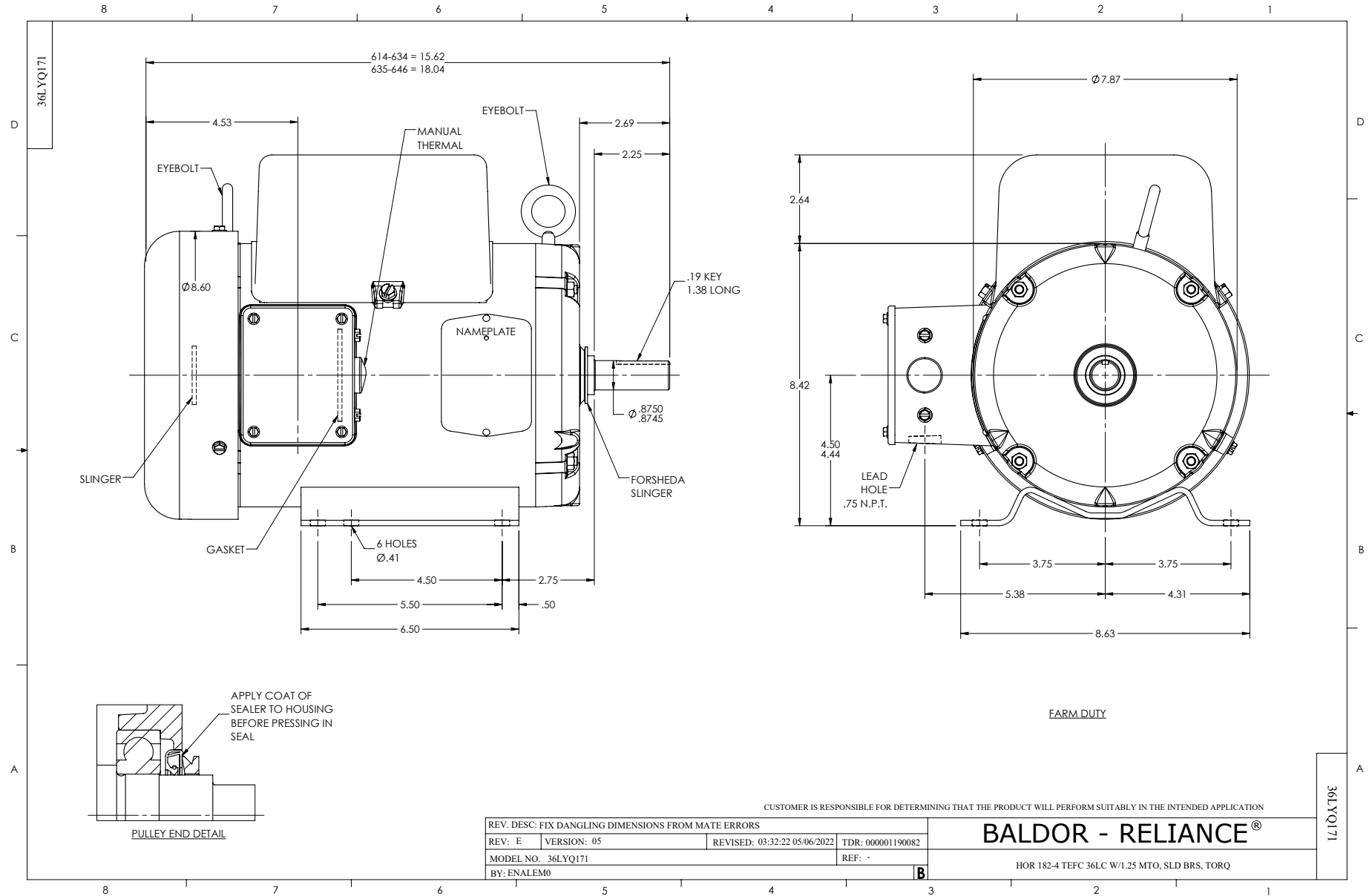
WINDING # 36WGY739

Typical performance - not guaranteed values.

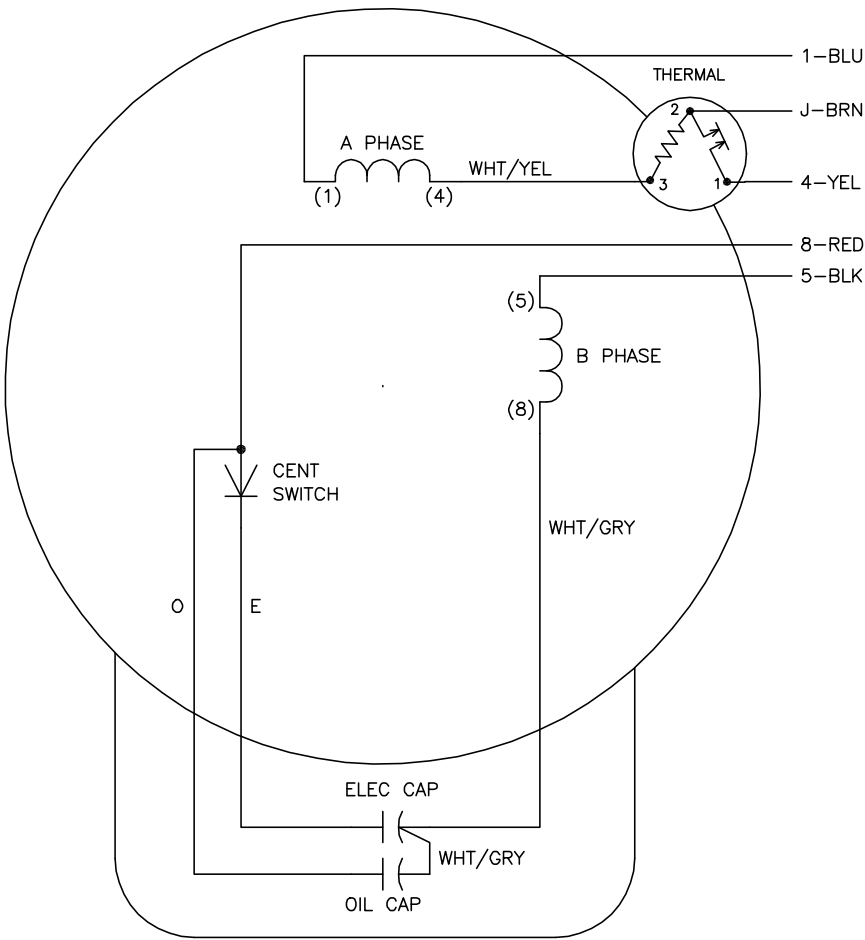
3 HP 1 PH 60 HZ 1750 RPM 230 V 3640LC

TORQUES (LB-FT) : PO=32 PU=31 LR=37 LRA=144





CD0002A02



	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. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0002A04		
REV. LTR: D	VERSION: 01	TDR: 000000360649
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005
	MTL: -	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE LC, SV, REV, THERMAL, 5 LEADS

CD0002A02