

**BALDOR • RELIANCE**

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# Customer information packet

## PCL3513M

1.5HP, 3450RPM, 1PH, 60HZ, 56C, 3520LC, TEFC

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.200 A @ 115.0 V 6.600 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
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	6.6 a

## Part detail

Revision	Z
Type	AC
Mech. spec.	35T982
Base	
Status	PRD/A
Elec. spec.	35WGY862
Layout	35LYT982
Eff. date	05-30-2018
CD Diagram	CD0320
Poles	02
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	06-22-2007

<b>Insulation Class</b>	B
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	F
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	4 @ 16 AWG, A&J
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3520LC
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	13.25 IN
<b>Power Factor</b>	98
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3450 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Do Not Use
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	Manual Thermal Overload
<b>Winding Thermal 1 Location</b>	KO
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1257L</b>									
<b>CAT.NO.</b>	PCL3513M								
<b>SPEC.</b>	35T982Y862								
<b>HP</b>	1.5								
<b>VOLTS</b>	115/230								
<b>AMP</b>	13.2/6.6								
<b>RPM</b>	3450								
<b>FRAME</b>	56C			<b>HZ</b>	60		<b>PH</b>	1	
<b>SER.F.</b>	1.15	<b>CODE</b>	F	<b>DES</b>	L	<b>CL</b>	B		
<b>NEMA-NOM-EFF</b>	75.5	<b>PF</b>	98						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>				<b>USABLE AT 208V</b>					
<b>DE</b>	6205	<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>							

**AC Induction Motor Performance Data**

Record # 10350

Typical performance - not guaranteed values

Winding: 35WGY862-R001		Type: 3520LC	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	1.5	Full Load Torque	2.25 LB-FT	
Volts	115/230	Start Configuration	direct on line	
Full Load Amps	13.2/6.6	Breakdown Torque	4.63 LB-FT	
R.P.M.	3450	Pull-up Torque	3.25 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque	4.25 LB-FT
NEMA Design Code	L KVA Code	F	Starting Current	34.7 A
Service Factor (S.F.)	1.15	No-load Current	1.5 A	
NEMA Nom. Eff.	75.5 Power Factor	98	Line-line Res. @ 25°C	2.38 Ω A Ph 1.84 Ω B Ph
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	40°C	
S.F. Amps	Temp. Rise @ S.F. Load	47°C		

**Load Characteristics 230 V, 60 Hz, 1.5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	87	90	96	98	97	96	98
Efficiency	51	71	74.5	75.5	74	70	75
Speed	3575	3550	3515	3490	3440	3370	3470
Line amperes	2.7	3.6	5	6.6	8.4	10.5	7.4

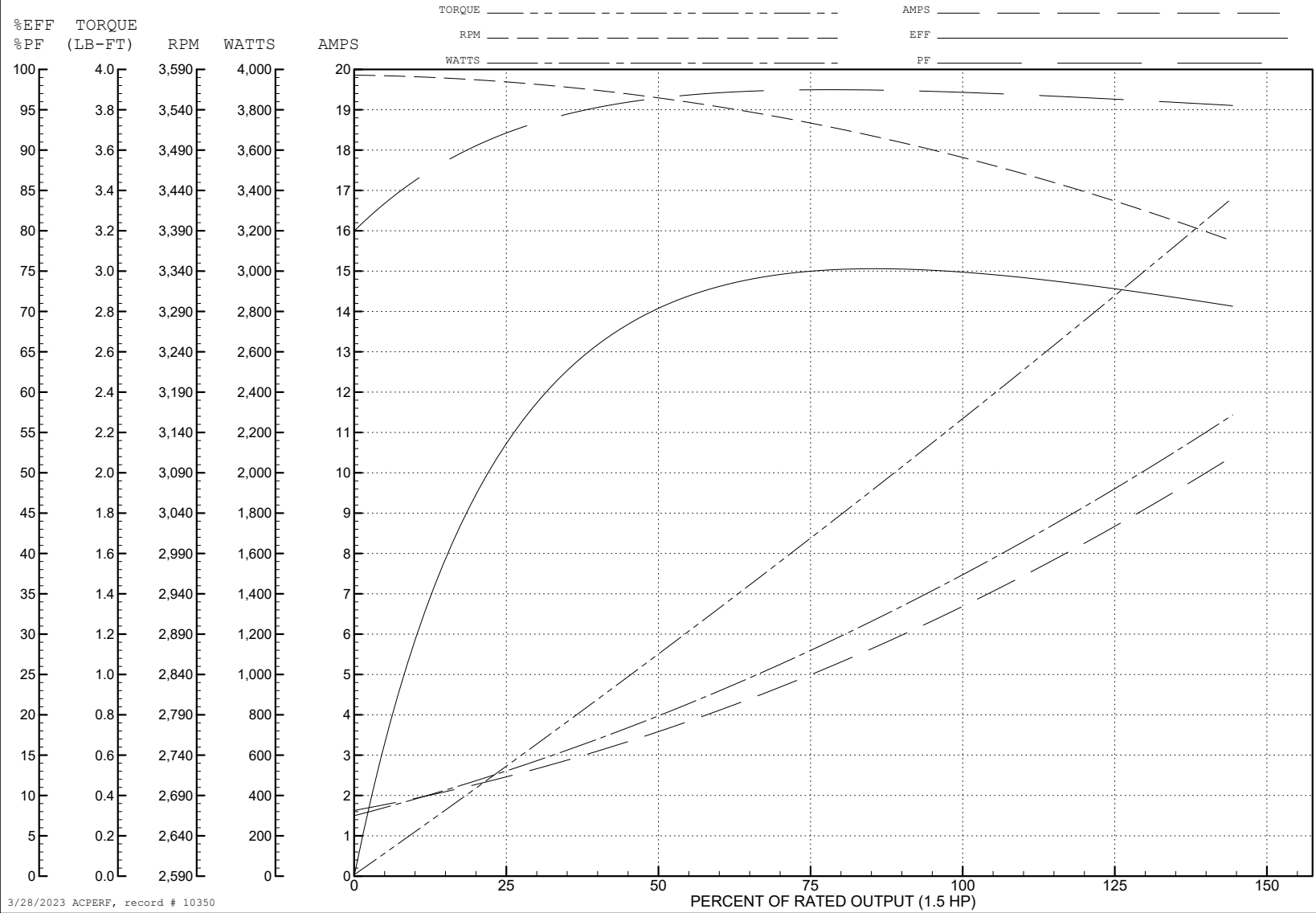
ABB Motors and Mechanical Inc.

WINDING # 35WGY862

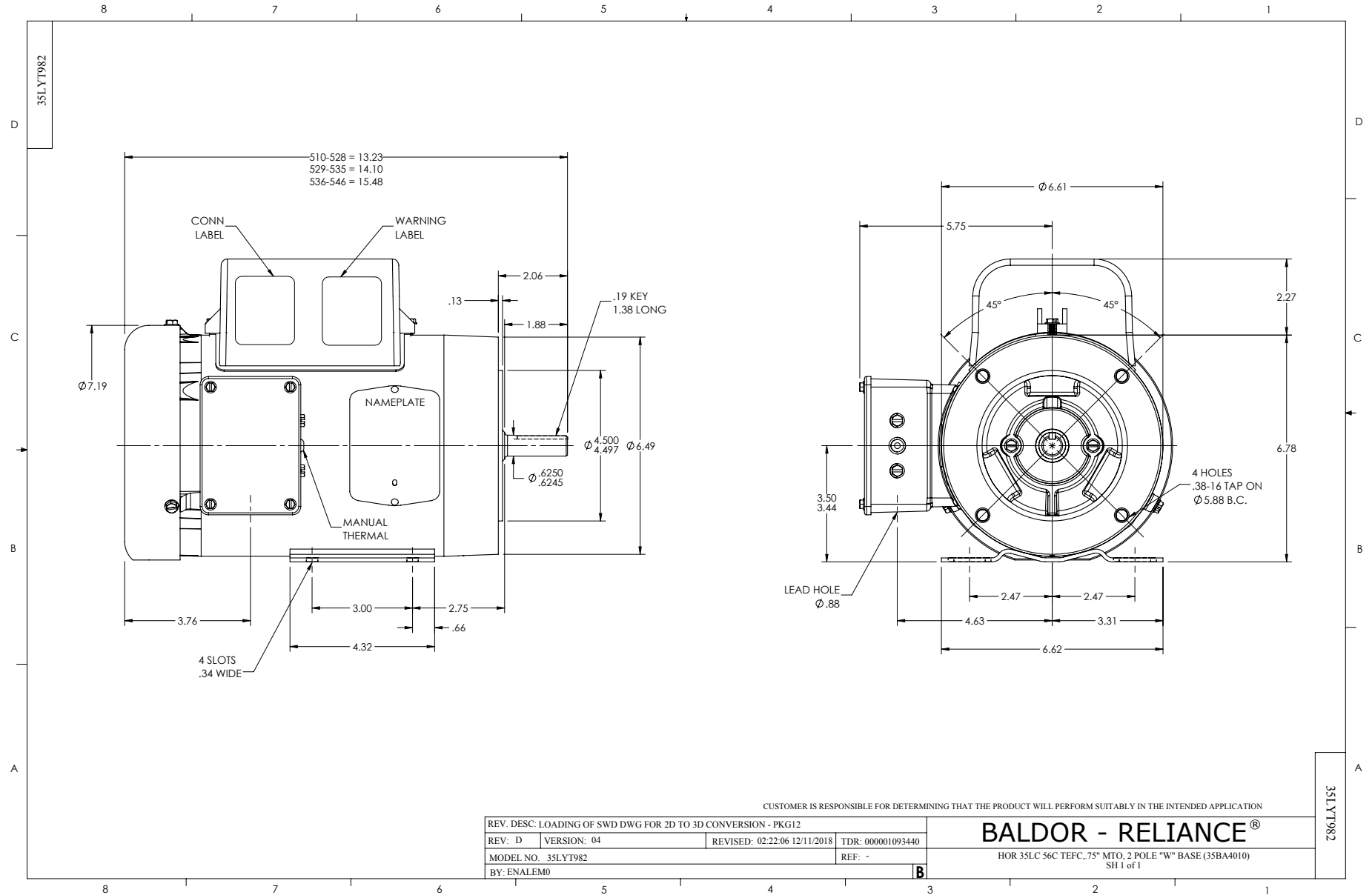
Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3520LC

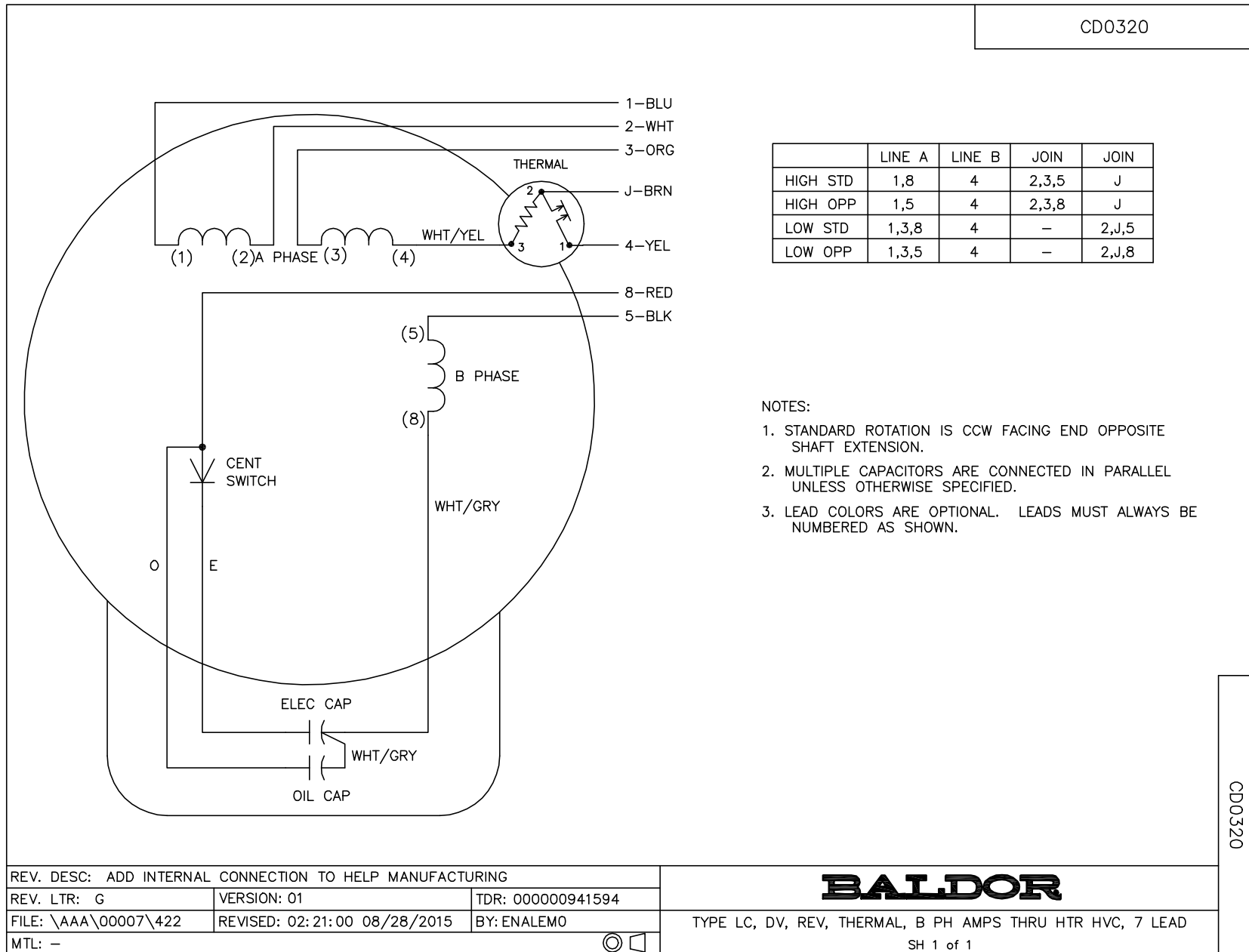
TORQUES (LB-FT): PO=4.63 PU=3.25 LR=4.25 LRA=34.7



3/28/2023 ACPERF, record # 10350



CD0320



CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 00000941594
FILE: \AAA\00007\422	REVISED: 02: 21: 00 08/28/2015	BY: ENALEMO
MTL: -	© □	

**BALDOR**

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD  
SH 1 of 1