ABB BALDOR RELIANCE

Customer information packet

PCL3513M

1.5HP, 3450RPM, 1PH, 60HZ, 56C, 3520LC, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56C
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	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
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	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	AC
Type	AC
Mech. spec.	35T982
Base	
Status	PRD/A
Elec. spec.	35WGY862
Layout	35LYT982
Eff. date	05-07-2024
CD Diagram	CD0320
Poles	02
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	06-22-2007

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.25 IN
Power Factor	98
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 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	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.	PCL3513M							
SPEC.	35T982Y862							
HP	1.5							
VOLTS	115/230							
AMP	13.2/6.6							
RPM	3450							
FRAME	56C	**HZ**	60	**PH**	1			
SER.F.	1.15	**CODE**	F	**DES**	L	**CL**	B	
NEMA-NOM-EFF	75.5	**PF**	98					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						

AC Induction Motor Performance Data
Record # 10350
Typical performance - not guaranteed values

Winding: 35WGY862-R001	**Type:** 3520LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
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. @ 25ºC**	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

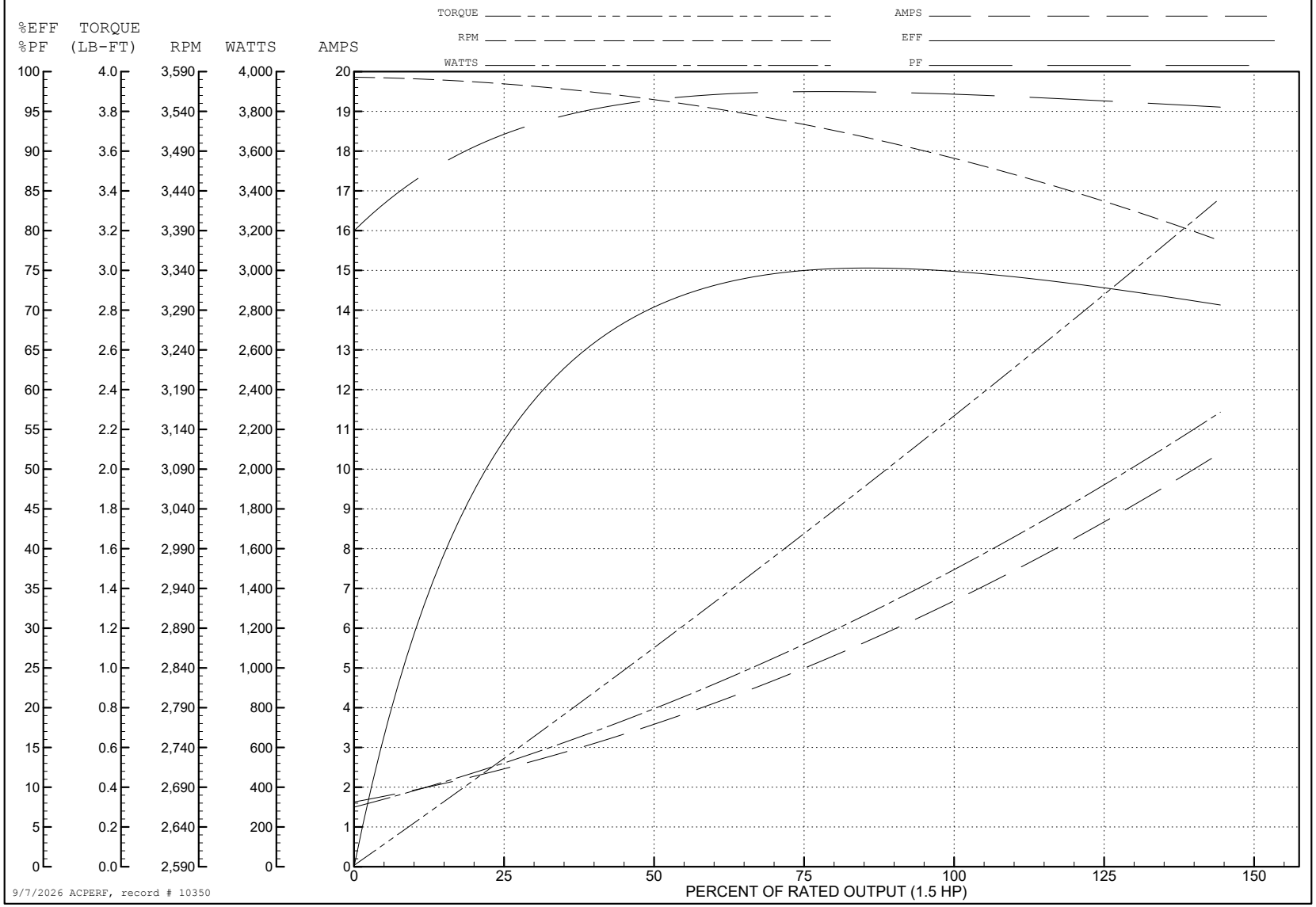
ABB Motors and Mechanical Inc.

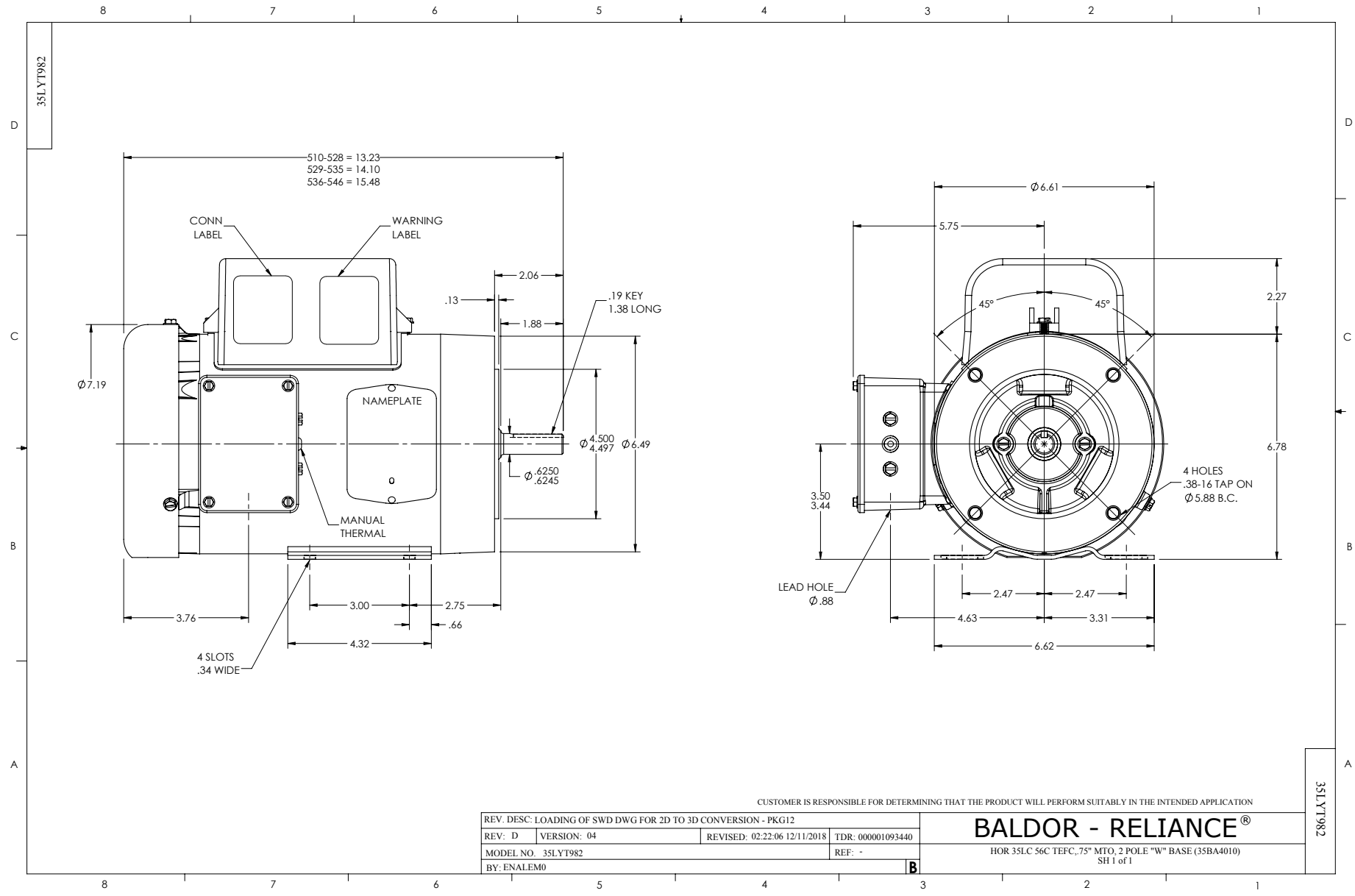
WINDING # 35WGY862

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

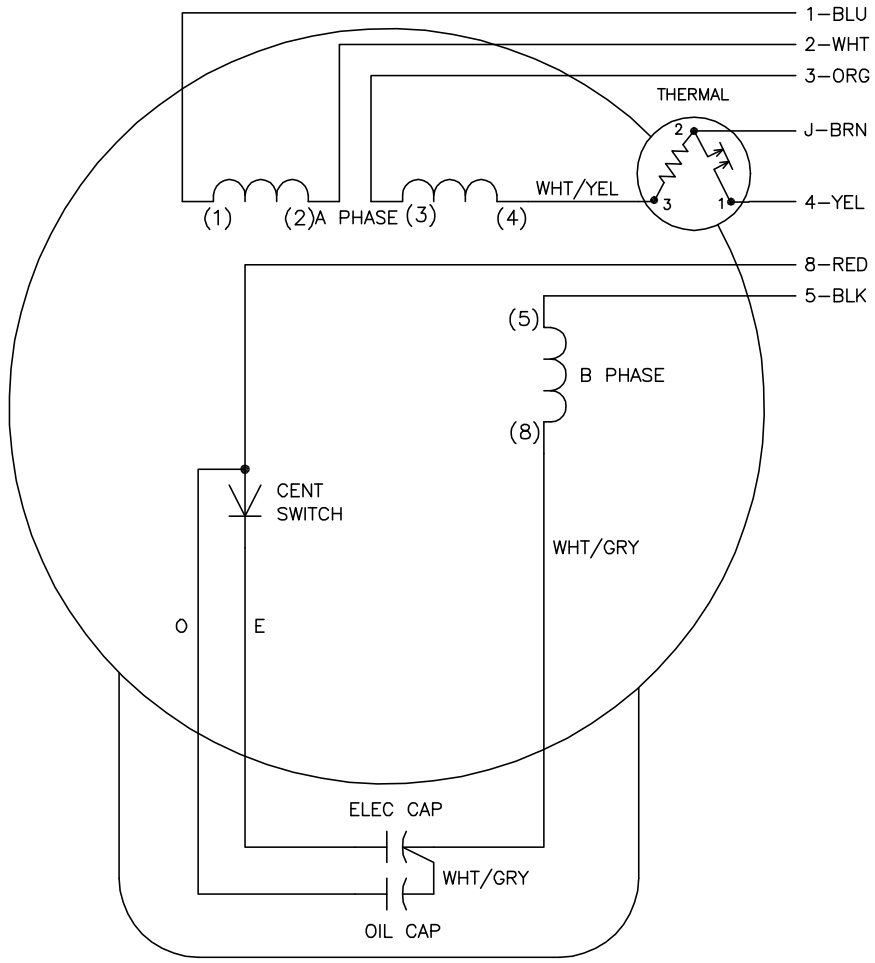
Typical performance - not guaranteed values.

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




35LYT982
510-528 = 13.23
529-535 = 14.10
536-546 = 15.48
CONN LABEL
WARNING LABEL
2.06
.13
1.88
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø4.500
4.497
Ø6.49
Ø.6250
.6245
MANUAL THERMAL
3.76
3.00
2.75
.66
4.32
4 SLOTS
.34 WIDE
Ø6.61
5.75
45°
45°
2.27
6.78
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
3.50
3.44
LEAD HOLE
Ø.88
2.47
2.47
4.63
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG12
REV: D
VERSION: 04
REVISED: 02:22:06 12/11/2018
TDR: 000001093440
MODEL NO. 35LYT982
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 35LC 56C TEFC, 75" MTO, 2 POLE "W" BASE (35BA4010)
SH 1 of 1
35LYT982

CD0320



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,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.

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
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