

ABB BALDOR RELIANCE III

Customer information packet

VEL11313A

1.5HP, 3480RPM, 1PH, 60HZ, 56C, 3532LC, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
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	WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	11.800 A @ 115.0 V 5.900 A @ 230.0 V 7.800 A @ 208.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.9 a
Insulation Class	B

Part Detail

Revision	B
Type	AC
Mech. spec.	35EL001
Base	
Status	PRD/A
Elec. spec.	35WGL162
Layout	35LYEL001
Eff. date	04-30-2024
CD Diagram	CD0320
Poles	02
Leads	6#16,1#14 #4TH
Proprietary	False
Created date	02-07-2023

Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.10 IN
Power Factor	99
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3480 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP4423B14M36L											
CAT #	VEL11313A				WGT	52		LBS			
SPEC	35EL001L162G1				ENCL	OPEN					
SER #					CC			IP	23		
HP	1.5		NEMA NOM. EFF					82			
VOLTS	115/230										
AMPS	11.8/5.9					PF		99			
RATING	40C AMB-CONT										
RPM	3480										
FRAME	56C	HZ	60	CODE	G	CLASS		B			
SER.F.	1.15	SF AMP				PH	1	DES	L		
DE	6205		ODE	6203							
LUBRICATION	POLYREX EM										
	35WGL162										
YR						QR					

AC Induction Motor Performance Data

Record # 48724

Typical performance - not guaranteed values

Winding: 35WGL162-R001			Type: 3532LC		Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		2.26 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		11.8/5.9	Breakdown Torque		5.43 LB-FT	
R.P.M.		3480	Pull-up Torque		3.28 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		5.8 LB-FT	
NEMA Design Code		L KVA Code	Starting Current		73.7 A	
Service Factor (S.F.)		1.15	No-load Current		2.44 A	
NEMA Nom. Eff.		82 Power Factor	99		Line-line Res. @ 25°C 0.43089 Ω A Ph 0.72107 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		17°C
S.F. Amps				Temp. Rise @ S.F. Load		22°C

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	89	98	99	100	99	98	99
Efficiency	70.1	80.9	83.3	82.9	80.3	76	81.3
Speed	3573.6	3549.3	3520	3484.9	3443.3	3387.4	3460
Line amperes	3.88	6.09	8.8	11.8	15.3	19.6	13.9

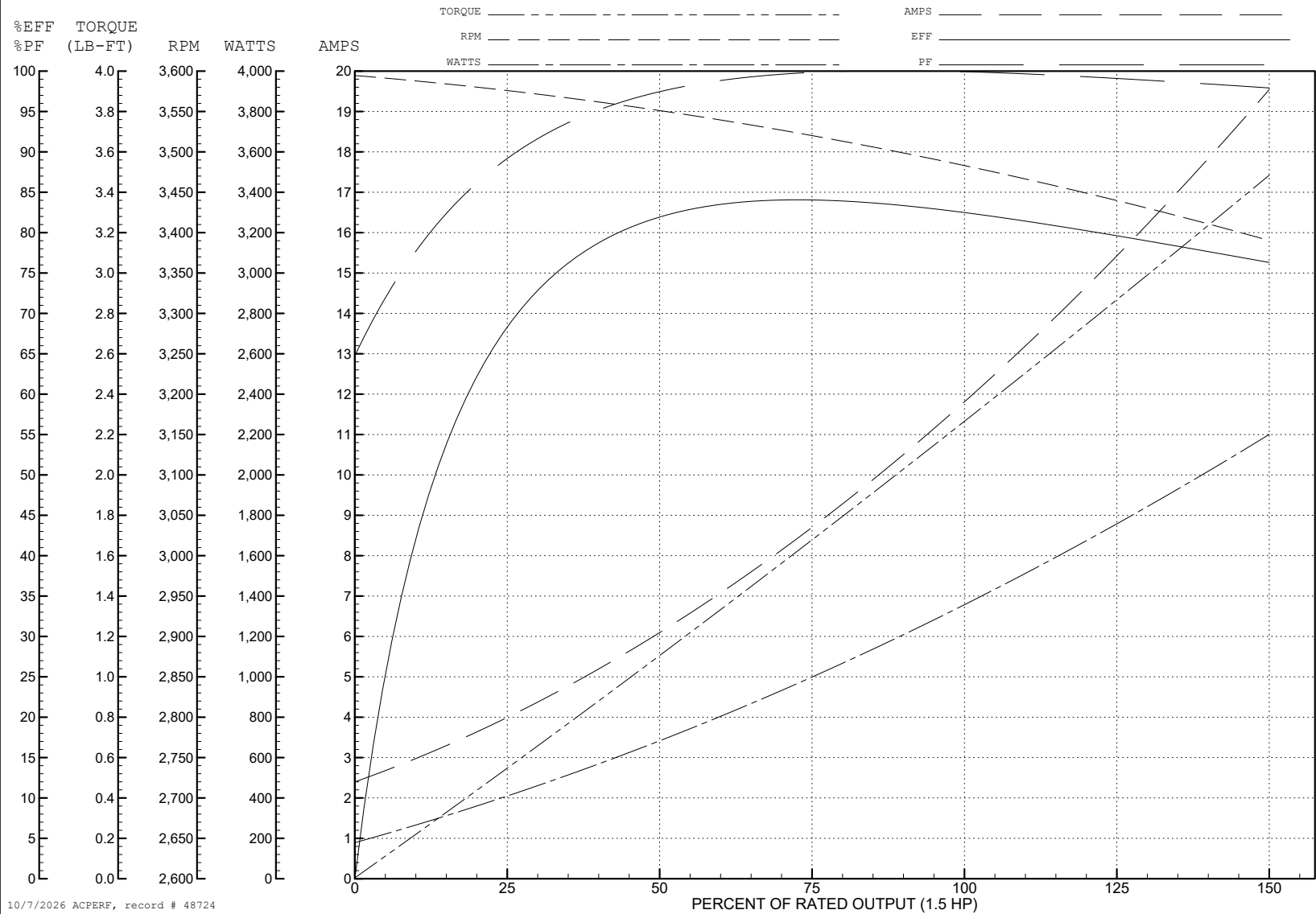
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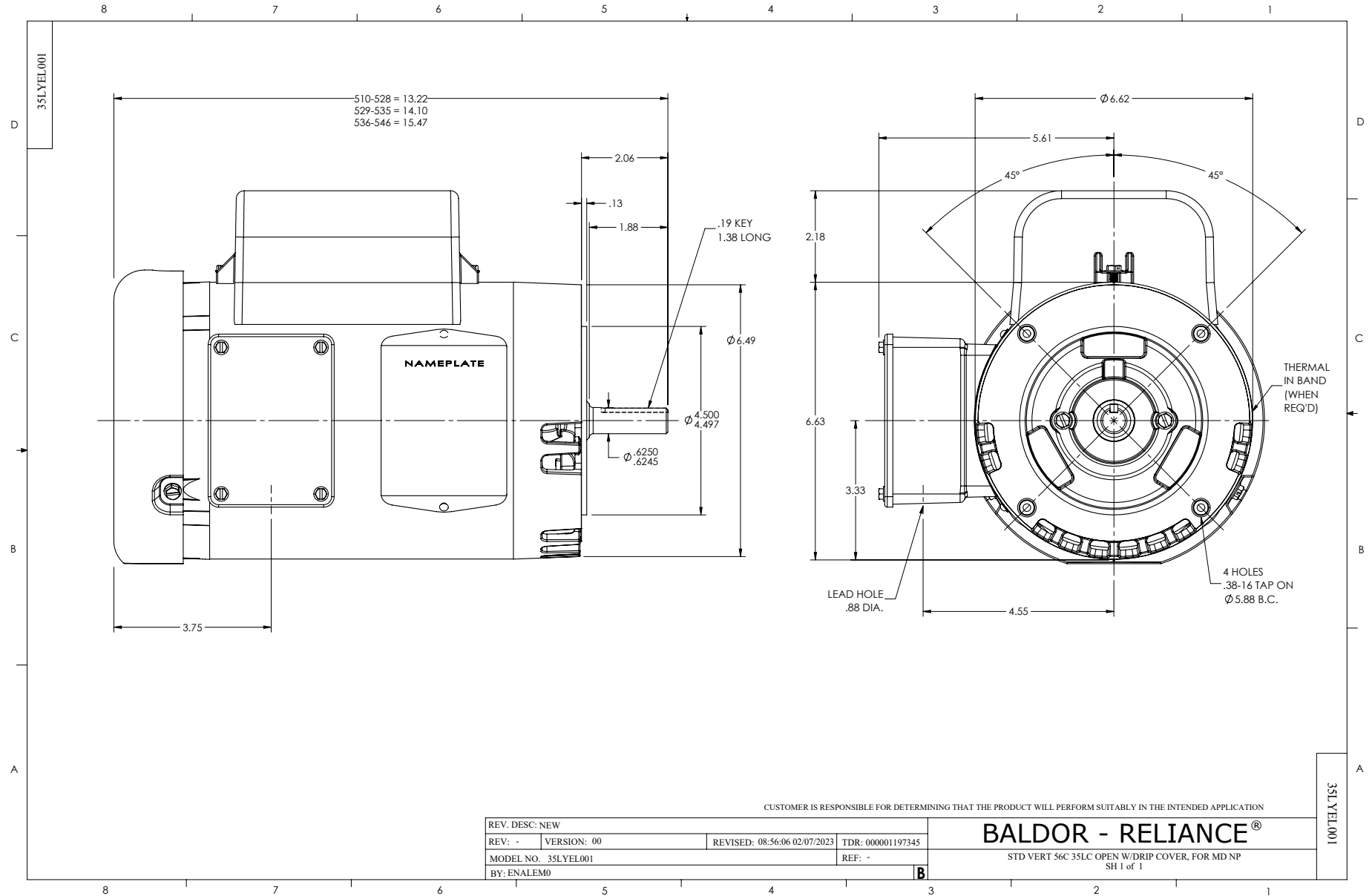
WINDING # 35WGL162

Typical performance - not guaranteed values.

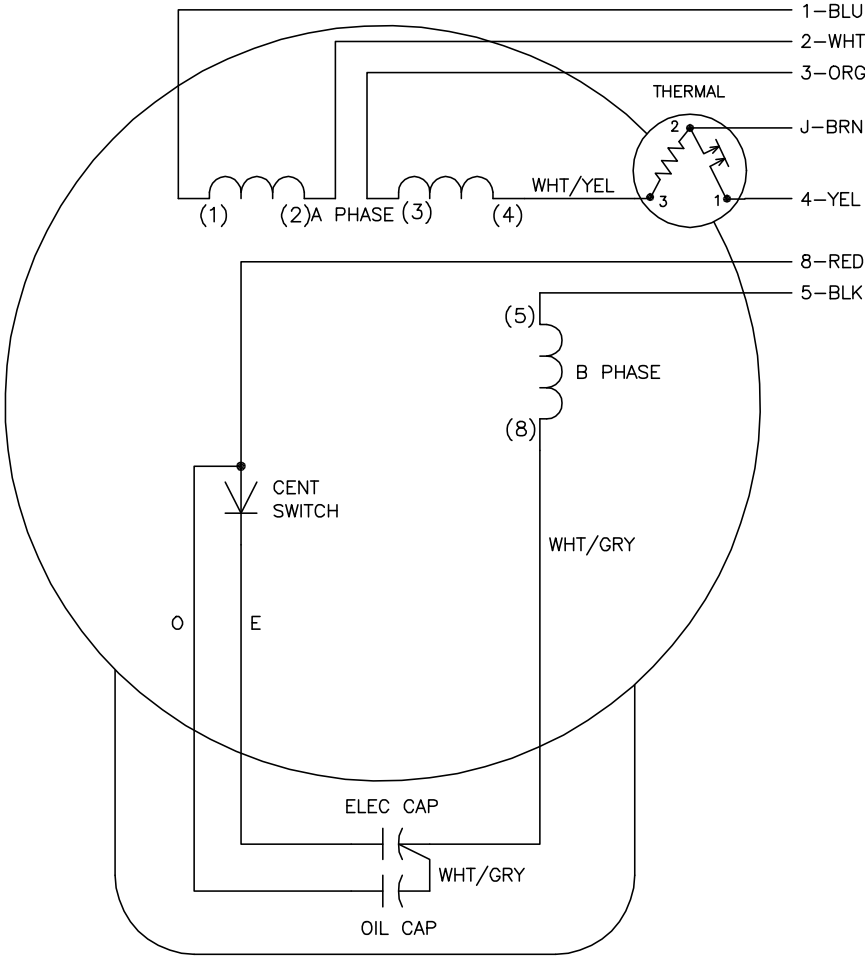
1.5 HP 1 PH 60 HZ 3480 RPM 115 V 3532LC

TORQUES (LB-FT): PO=5.43 PU=3.28 LR=5.8 LRA=73.7





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
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