ABB BALDOR RELIANCE

Customer information packet

VEL11318A

1HP, 1750RPM, 1PH, 60HZ, 56C, 3528LC, OPEN, F1
Class - None
Division - Not Applicable

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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	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	4.400 A @ 230.0 V
	8.800 A @ 115.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	G
Type	AC
Mech. spec.	35H993
Base	
Status	PRD/A
Elec. spec.	35WGG290
Layout	35LYH993
Eff. date	02-12-2026
CD Diagram	CD0703
Poles	04
Leads	7#16
Proprietary	False
Created date	11-03-2022

IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	7 @ 16 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3528LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.74 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-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	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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP3273L										
CAT.NO.	VEL11318A									
SPEC.	35H993G290G1									
HP	1									
VOLTS	115/230									
AMP	8.8/4.4									
RPM	1750									
FRAME	56C		**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	K	**DES**	L	**CL**	F			
F.L. AVG. EFF.	82.6	**PF**	89							
RATING	40C AMB-CONT									
CC										
DE	6205		**ODE**	6203						
ENCL	OPEN	**SN**								

AC Induction Motor Performance Data
Record # 91105
Preliminary Data Sheet

Winding: 35WGG290-R002	**Type:** 3528LC	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			8.8/4.4	**Breakdown Torque**	9.32 LB-FT
R.P.M.			1750	**Pull-up Torque**	7.38 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	13.1 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	75.8 A
Service Factor (S.F.)			1.15	**No-load Current**	3.67 A
NEMA Nom. Eff.	82.6	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.566 Ω A Ph 1.17 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	27°C
S.F. Amps				**Temp. Rise @ S.F. Load**	32°C
				Locked-rotor Power Factor	95.9
				Rotor inertia	0.203 lb-ft²

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	76	85	89	92	92	91
Efficiency	66.6	79.4	82.9	83.5	82.4	79.8	82.8
Speed	1786	1775	1763	1749	1734	1712	1740
Line amperes	4.17	5.38	6.91	8.7	10.7	13.3	9.9

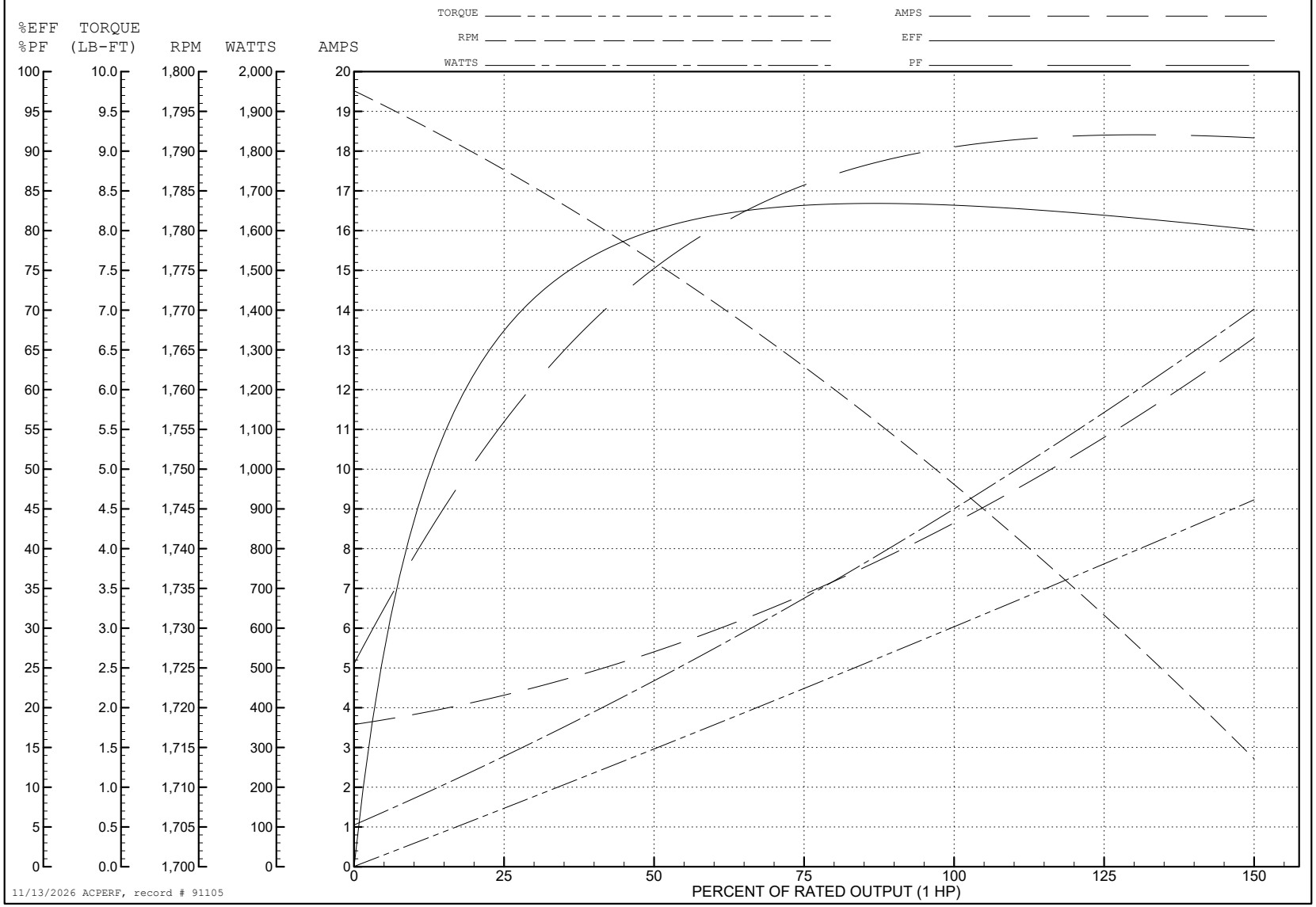
ABB Motors and Mechanical Inc.

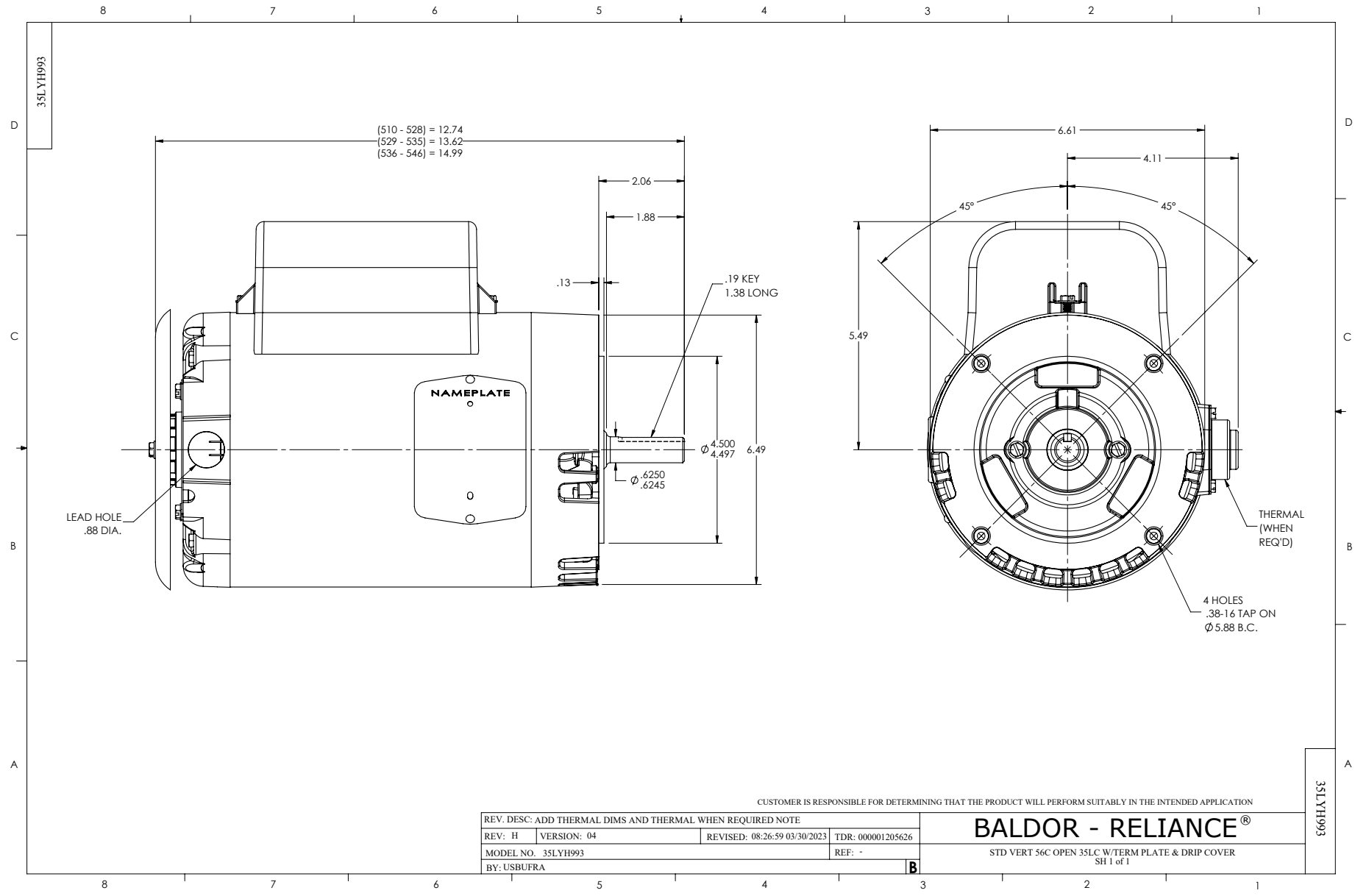
WINDING # 35WGG290

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528LC

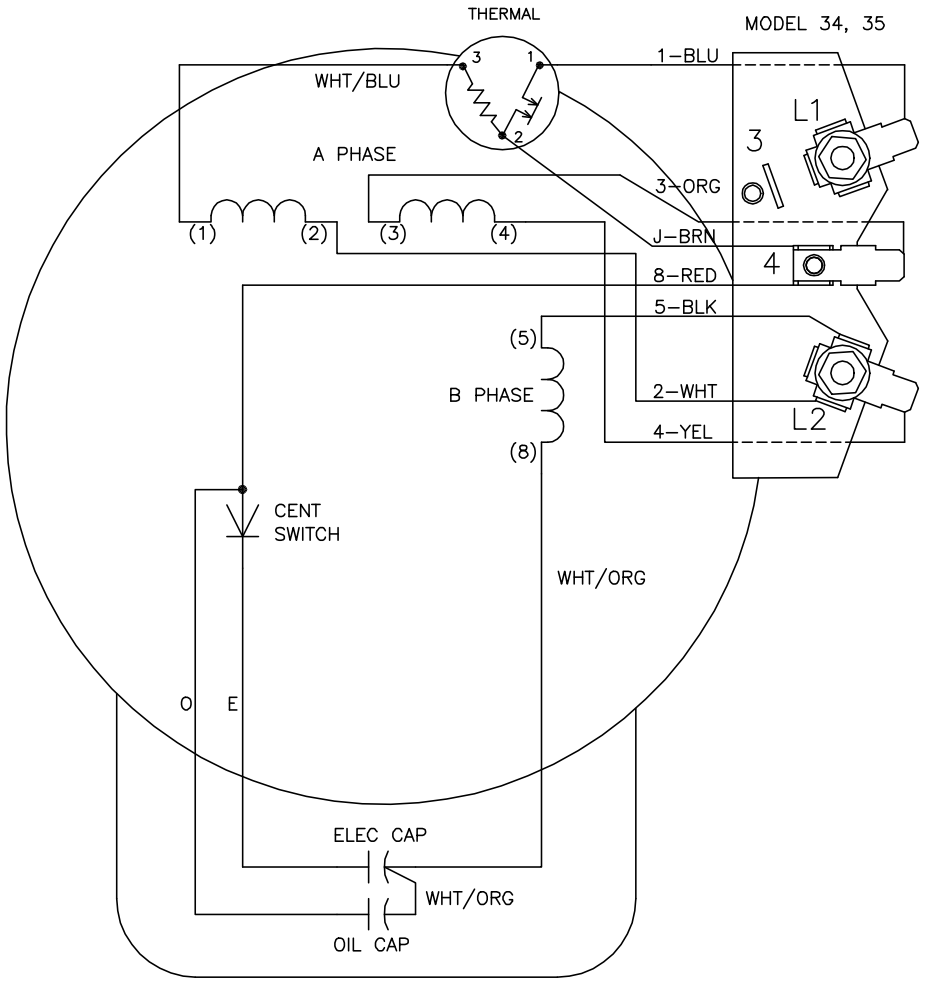
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.32 PU=7.38 LR=13.1 LRA=75.8




35LYH993
(510 - 528) = 12.74
(529 - 535) = 13.62
(536 - 546) = 14.99
2.06
1.88
.13
.19 KEY
1.38 LONG
NAMEPLATE
Ø 4.500
4.497
6.49
Ø .6250
.6245
LEAD HOLE
.88 DIA.
6.61
4.11
45°
45°
5.49
THERMAL
(WHEN
REQ'D)
4 HOLES
.38-16 TAP ON
Ø 5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: H
VERSION: 04
REVISED: 08:26:59 03/30/2023
TDR: 000001205626
MODEL NO. 35LYH993
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 56C OPEN 35LC W/TERM PLATE & DRIP COVER
SH 1 of 1
35LYH993

CD0703



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3.
   MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0703

REV. DESC: REMOVE MODEL 17 CONNECTION		
REV. LTR: G	VERSION: 02	TDR: 000001218314
FILE: \AAA\00007\140	REVISED: 08:28:11 10/11/2023	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

SH 1 of 1