ABB BALDOR RELIANCE

Customer information packet

VEL11307A

.75HP, 1755RPM, 1PH, 60HZ, 56C, 3522LC, OPEN, F
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	.750 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	3.500 A @ 230.0 V
	7.000 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	F
Type	AC
Mech. spec.	35H993
Base	
Status	PRD/A
Elec. spec.	35WGG289
Layout	35LYH993
Eff. date	02-04-2025
CD Diagram	CD0703
Poles	04
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	02-23-2023

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3522LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.74 IN
Power Factor	96
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	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected OPP STD
Shaft Slinger Indicator	No Slinger
Speed	1755 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.	VEL11307A										
SPEC.	35H993G289G1										
HP	.75										
VOLTS	115/230										
AMP	7/3.5										
RPM	1755										
FRAME	56C		**HZ**	60			**PH**	1			
SER.F.	1.25	**CODE**	L	**DES**	N	**CL**	F				
F.L. AVG. EFF.	82.5	**PF**	96								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 7.8/3.9										

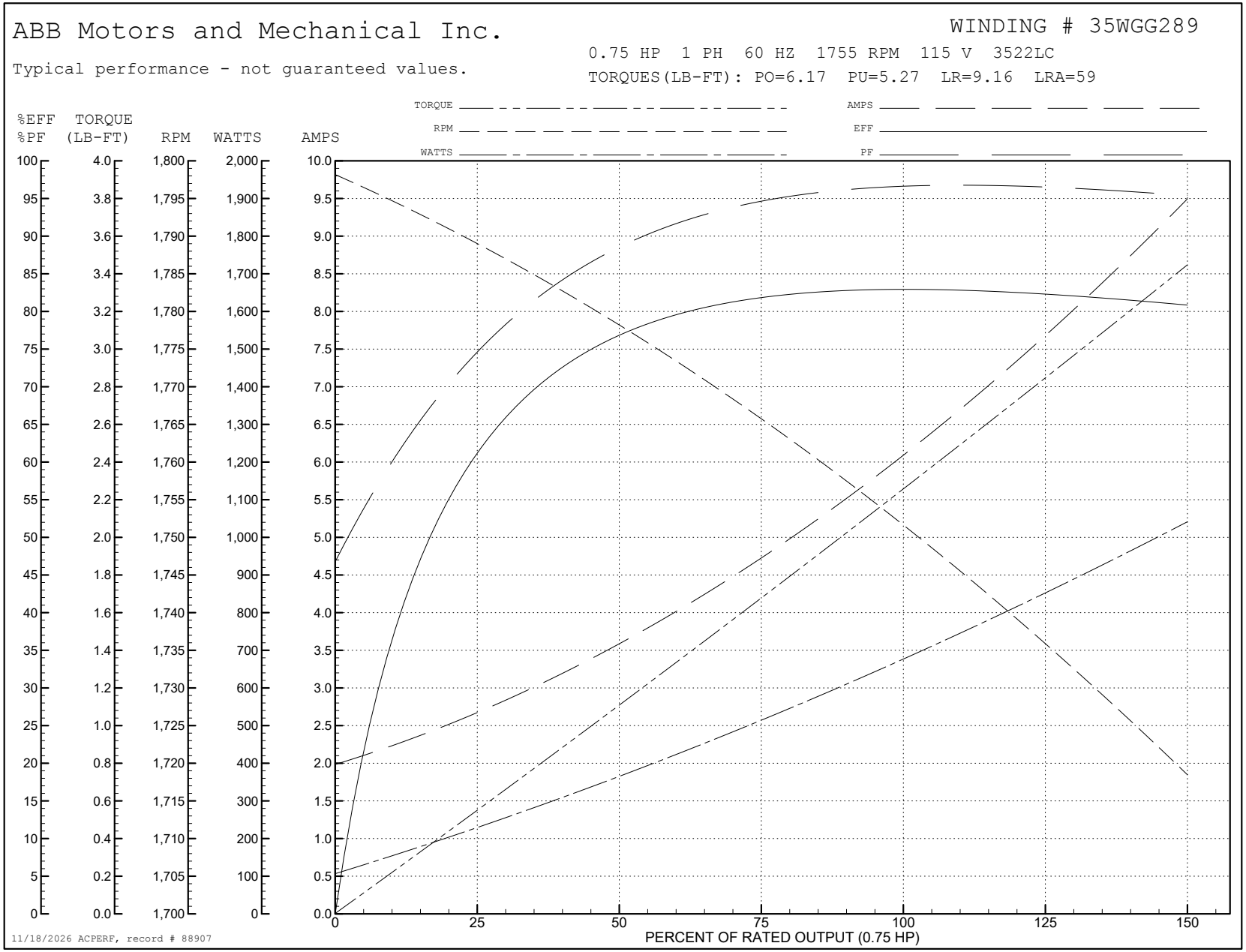
AC Induction Motor Performance Data
Record # 88907
Typical performance - not guaranteed values

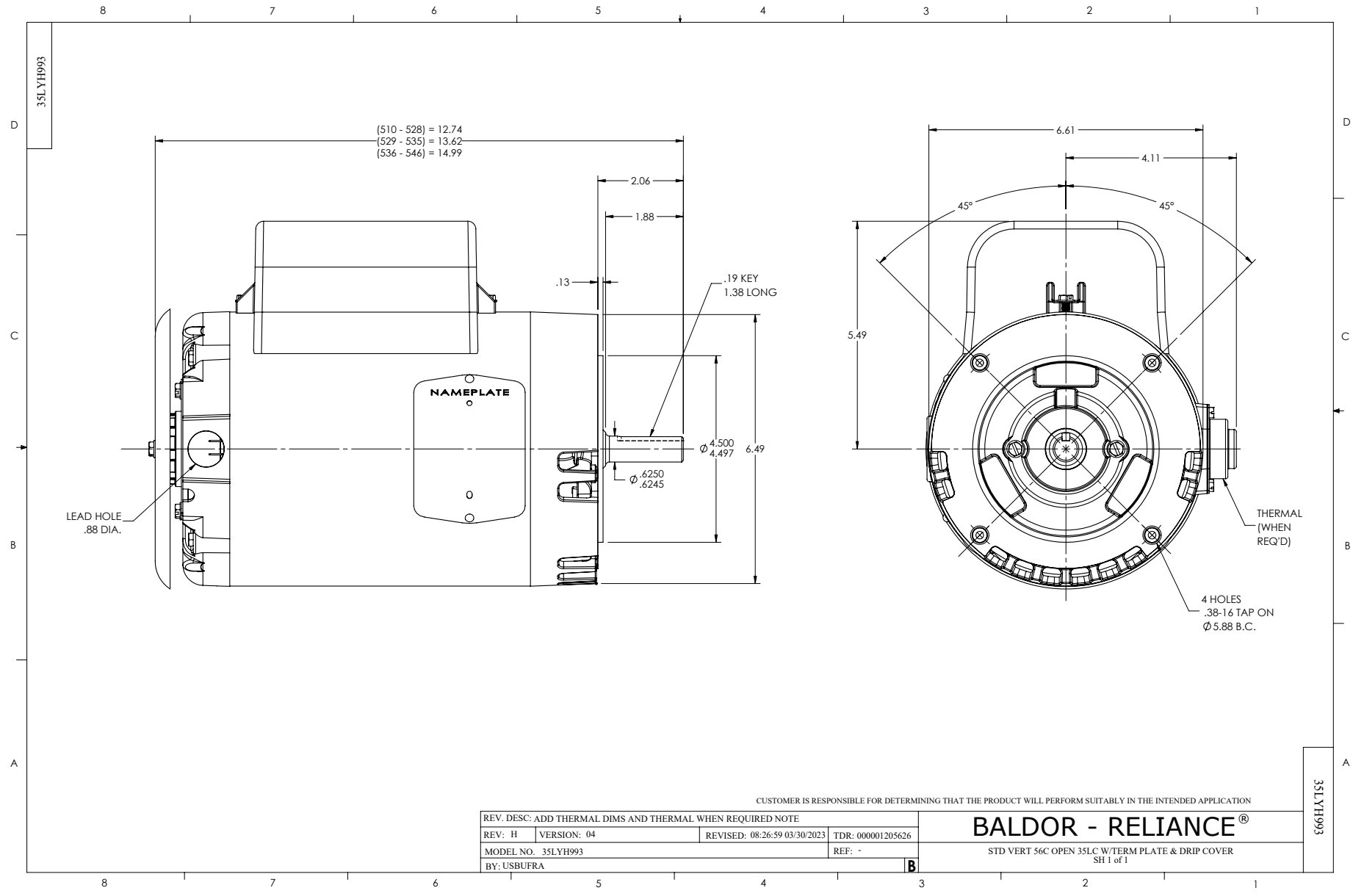
Winding: 35WGG289-R002	**Type:** 3522LC	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.25 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			6.1/3.1	**Breakdown Torque**	6.17 LB-FT
R.P.M.			1755	**Pull-up Torque**	5.27 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	9.16 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	59 A
Service Factor (S.F.)			1.25	**No-load Current**	2.04 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	1.09 Ω A Ph 1.33 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps				**Temp. Rise @ S.F. Load**	100°C
				Locked-rotor Power Factor	99.6
				Rotor inertia	0.159 lb-ft²

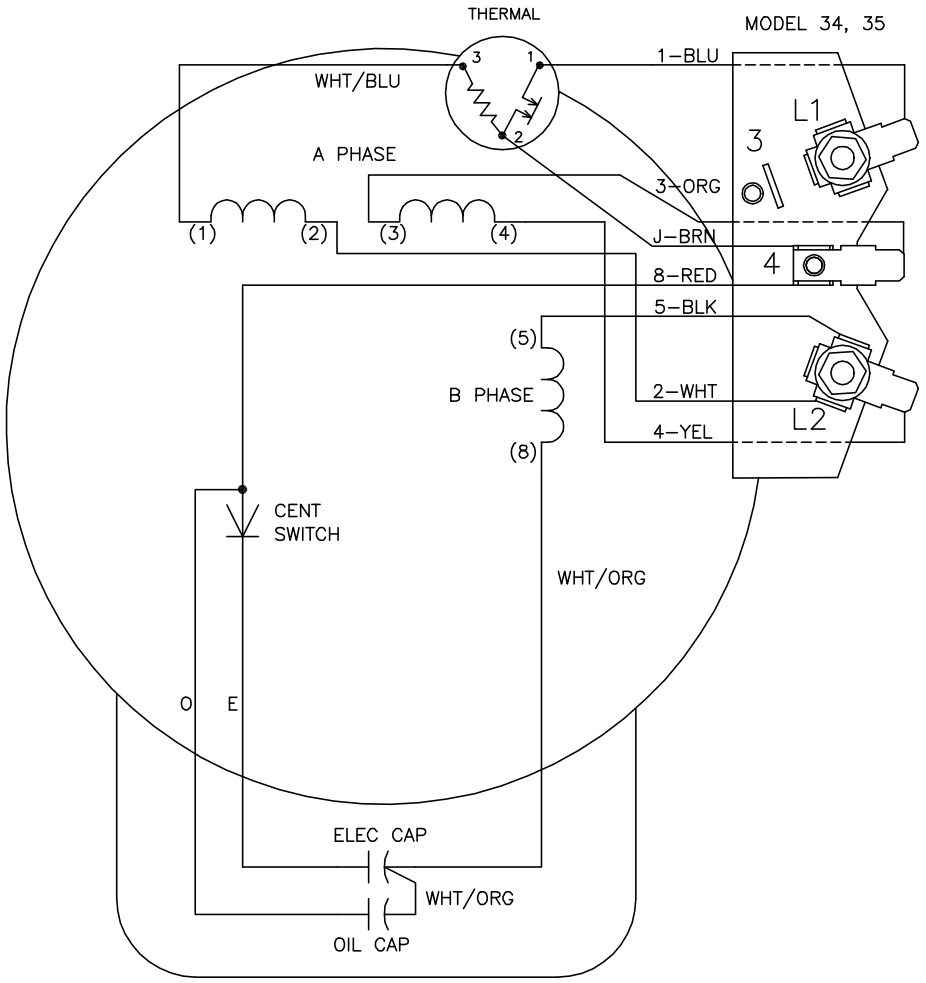
Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	77	91	94	96	95	96	95
Efficiency	60.6	76.6	82	83.2	82.4	80.7	82.4
Speed	1788	1777	1766	1753	1736	1718	1736
Line amperes	2.64	3.52	4.75	6.12	7.74	9.43	7.74


ABB Motors and Mechanical Inc.
WINDING # 35WGG289
Typical performance - not guaranteed values.
0.75 HP 1 PH 60 HZ 1755 RPM 115 V 3522LC
TORQUES(LB-FT): PO=6.17 PU=5.27 LR=9.16 LRA=59
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/18/2026 ACPERF, record # 88907


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