ABB BALDOR RELIANCE

Customer information packet

L3509

1HP, 3450RPM, 1PH, 60HZ, 56/56H, 3520L, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56/56H
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 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	C UR US
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	11.800 A @ 115.0 V
	5.900 A @ 230.0 V
	6.100 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
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	5.9 a

Part Detail

Revision	AT
Type	AC
Mech. spec.	35J383
Base	
Status	PRD/A
Elec. spec.	35WGX964
Layout	35LYJ383
Eff. date	02-19-2026
CD Diagram	CD0001
Poles	02
Leads	4#16 A PH,2#18 B PH
Proprietary	False
Created date	06-22-2007

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.93 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L								
CAT.NO.	L3509							
SPEC.	35J383X964							
HP	1							
VOLTS	115/230							
AMP	11.8/5.9							
RPM	3450							
FRAME	56/56H	**HZ**	60			**PH**	1	
SER.F.	1.25	**CODE**	K	**DES**	N	**CLASS**	B	
NEMA-NOM-EFF	68	**PF**	82					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						
	SFA 14/7							

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 10114
Typical performance - not guaranteed values

Winding: 35WGX964-R001	**Type:** 3520L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.5 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			11.8/5.9	**Breakdown Torque**	4.25 LB-FT
R.P.M.			3450	**Pull-up Torque**	3.5 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	4.75 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	38 A
Service Factor (S.F.)			1.25	**No-load Current**	3.2 A
NEMA Nom. Eff.	68	**Power Factor**	82	**Line-line Res. @ 25ºC**	2 Ω A Ph 1.77 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C
S.F. Amps			14/7	**Temp. Rise @ S.F. Load**	90°C

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	64	72	80	84	86	84
Efficiency	50	61	67	68	67	64.5	67
Speed	3560	3525	3485	3450	3400	3340	3400
Line amperes	3.5	4.2	5	5.9	7	8.4	7

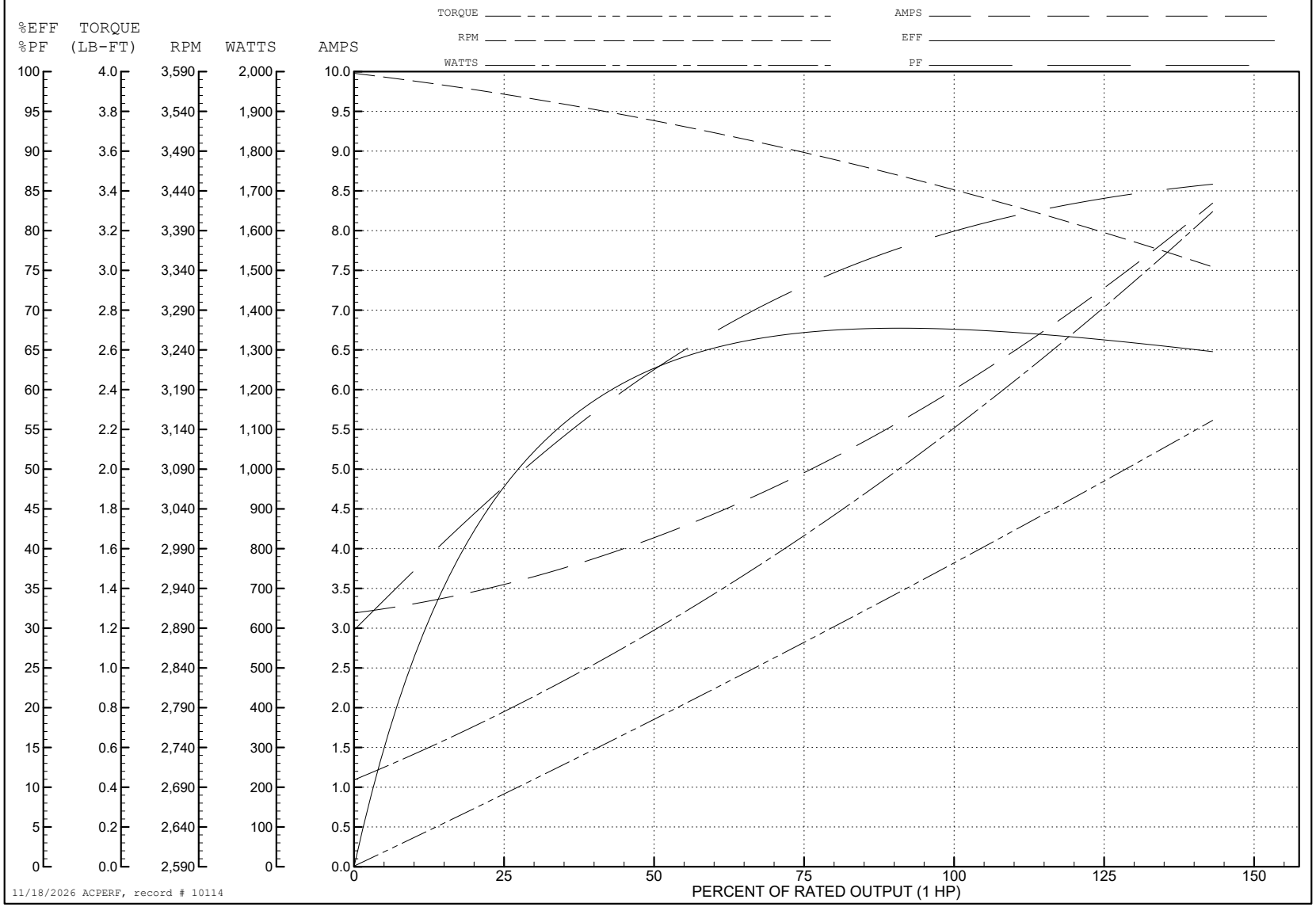
ABB Motors and Mechanical Inc.

WINDING # 35WGX964

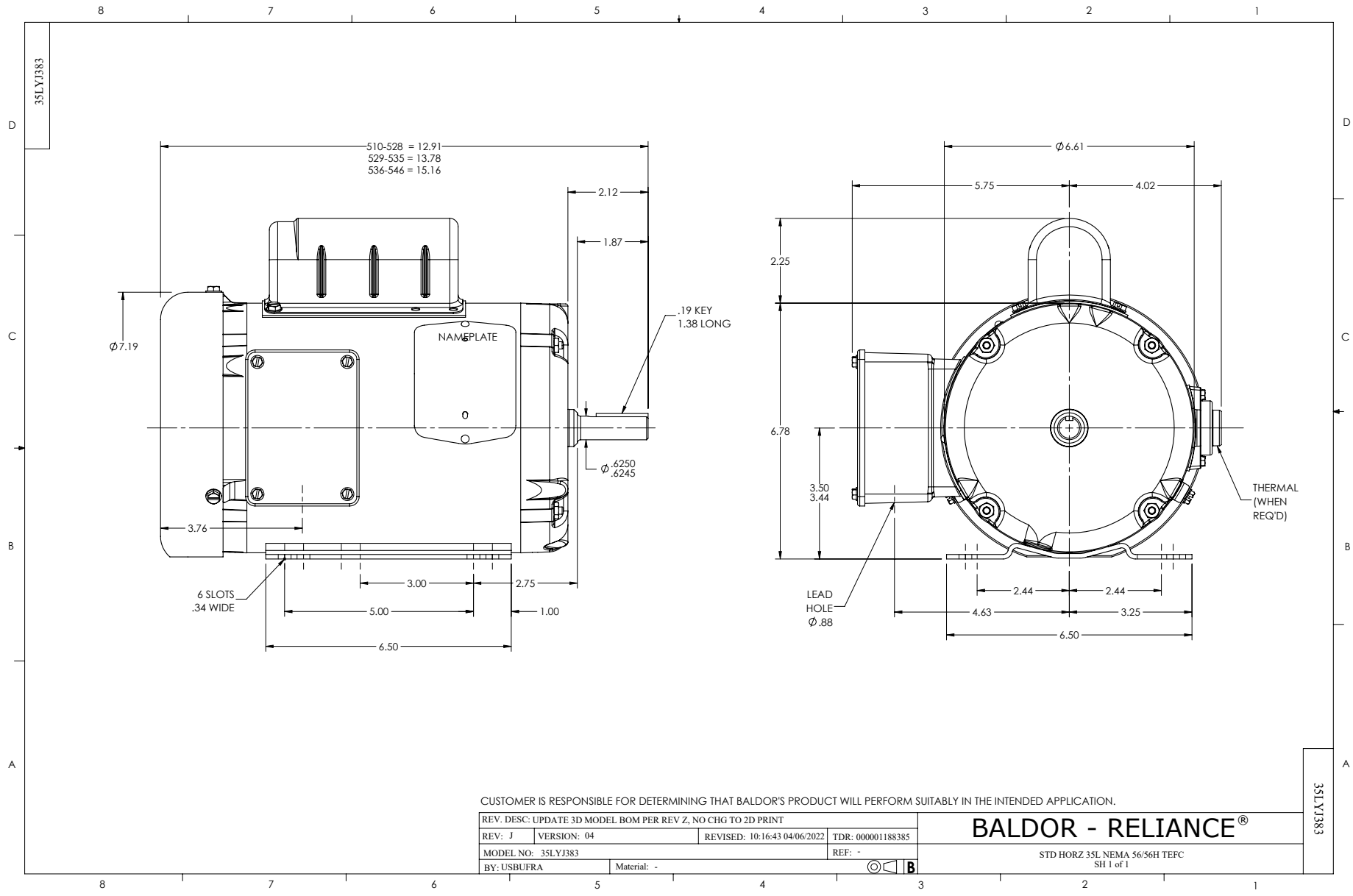
1 HP 1 PH 60 HZ 3450 RPM 230 V 3520L

Typical performance - not guaranteed values.

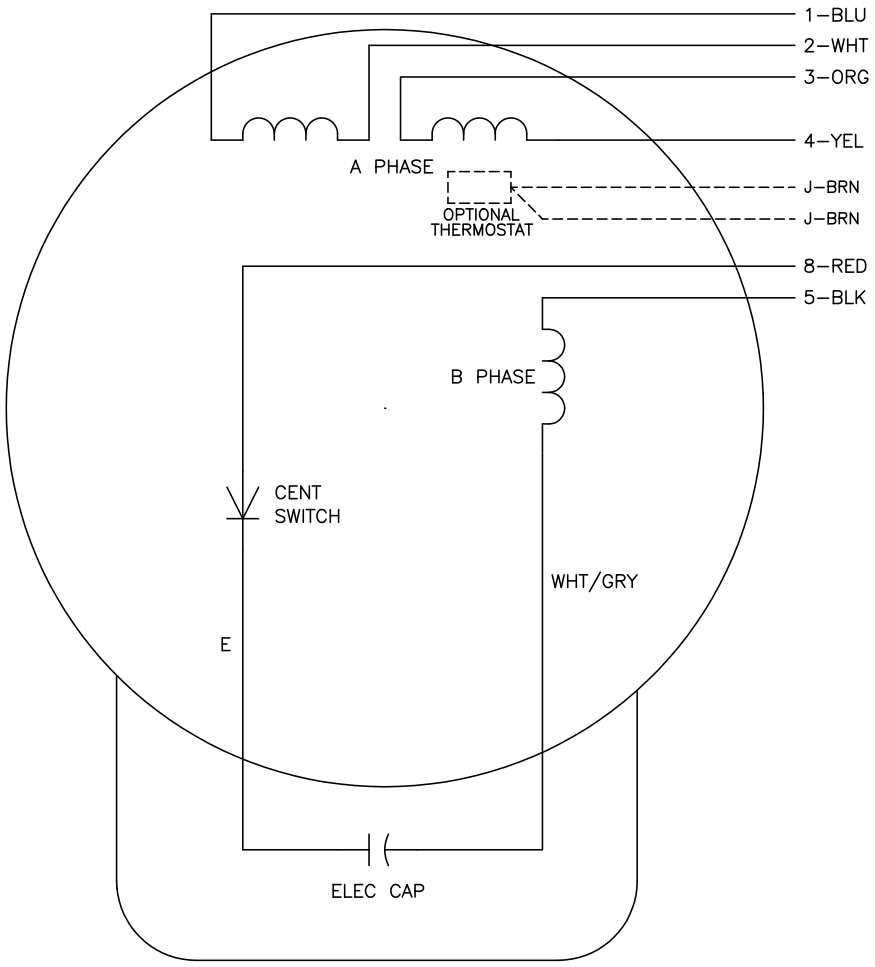
TORQUES(LB-FT): PO=4.25 PU=3.5 LR=4.75 LRA=38



11/18/2026 ACPERF, record # 10114


35LYJ383
510-528 = 12.91
529-535 = 13.78
536-546 = 15.16
2.12
1.87
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø .6250
.6245
3.76
6 SLOTS
.34 WIDE
3.00
2.75
5.00
1.00
6.50
Ø6.61
5.75
4.02
2.25
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD
HOLE
Ø .88
2.44
2.44
4.63
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: UPDATE 3D MODEL BOM PER REV Z, NO CHG TO 2D PRINT
REV: J
VERSION: 04
REVISED: 10:16:43 04/06/2022
TDR: 000001188385
MODEL NO: 35LYJ383
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD HORZ 35L NEMA 56/56H TEFC
SH 1 of 1
35LYJ383

CD0001



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

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS

CD0001