ABB BALDOR RELIANCE

Customer information packet

CL3513

1.5HP, 3450RPM, 1PH, 60HZ, 56C, 3528L, TEFC, F1
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, Induction Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	C UR US
	CURUS
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	7.900 A @ 208.0 V
	7.500 A @ 230.0 V
	15.000 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AM
Type	AC
Mech. spec.	35T946
Base	
Status	PRD/A
Elec. spec.	35WG0199
Layout	35LYT946
Eff. date	05-07-2024
CD Diagram	CD0001
Poles	02
Leads	4#16 A PH,2#18 B PH
Proprietary	False
Created date	06-22-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	7.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3528L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.23 IN
Power Factor	82
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 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.	CL3513								
SPEC.	35T946-0199								
HP	1.5								
VOLTS	115/208-230								
AMP	15/7.9-7.5								
RPM	3450								
FRAME	56C		**HZ**	60			**PH**	1	
SER.F.	1.15	**CODE**	H	**DES**	L	**CLASS**		F	
NEMA-NOM-EFF	70	**PF**	82						
RATING	40C AMB-CONT								
CC									
DE	6205		**ODE**	6203					
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 72374
Typical performance - not guaranteed values

Winding: 35WG0199-R005	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			1.5
Volts			115/208-230
Full Load Amps			15/7.9-7.5
R.P.M.			3450
Hz	60	**Phase**	1
NEMA Design Code	L	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	70	**Power Factor**	82
Rating - Duty			40C AMB-CONT
S.F. Amps			

115 V, 60 Hz: Low Voltage Connection	
Full Load Torque	2.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	5.6 LB-FT
Pull-up Torque	5.2 LB-FT
Locked-rotor Torque	5.5 LB-FT
Starting Current	84 A
No-load Current	9 A
Line-line Res. @ 25ºC	0.333 Ω A Ph 1.24 Ω B Ph
Temp. Rise @ Rated Load	70°C
Temp. Rise @ S.F. Load	81°C
Locked-rotor Power Factor	86.9
Rotor inertia	0.0774 LB-FT2

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	66	79	81	85	87	83
Efficiency	51.9	65.3	68.6	71.2	70.7	68.4	70.9
Speed	3567	3541	3514	3475	3439	3397	3453
Line amperes	10	11.6	13.8	17.2	20.4	24.2	19.1

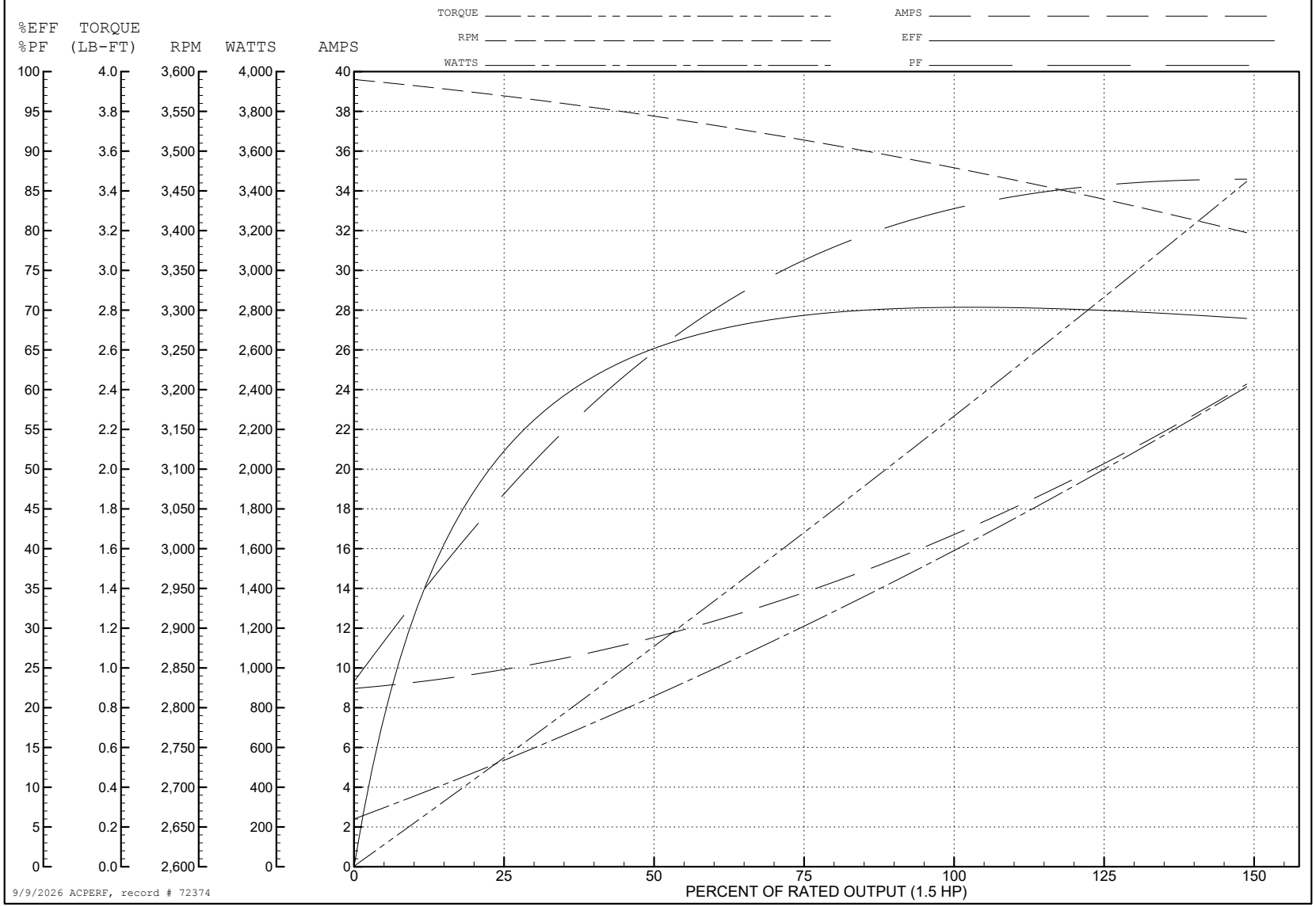
ABB Motors and Mechanical Inc.

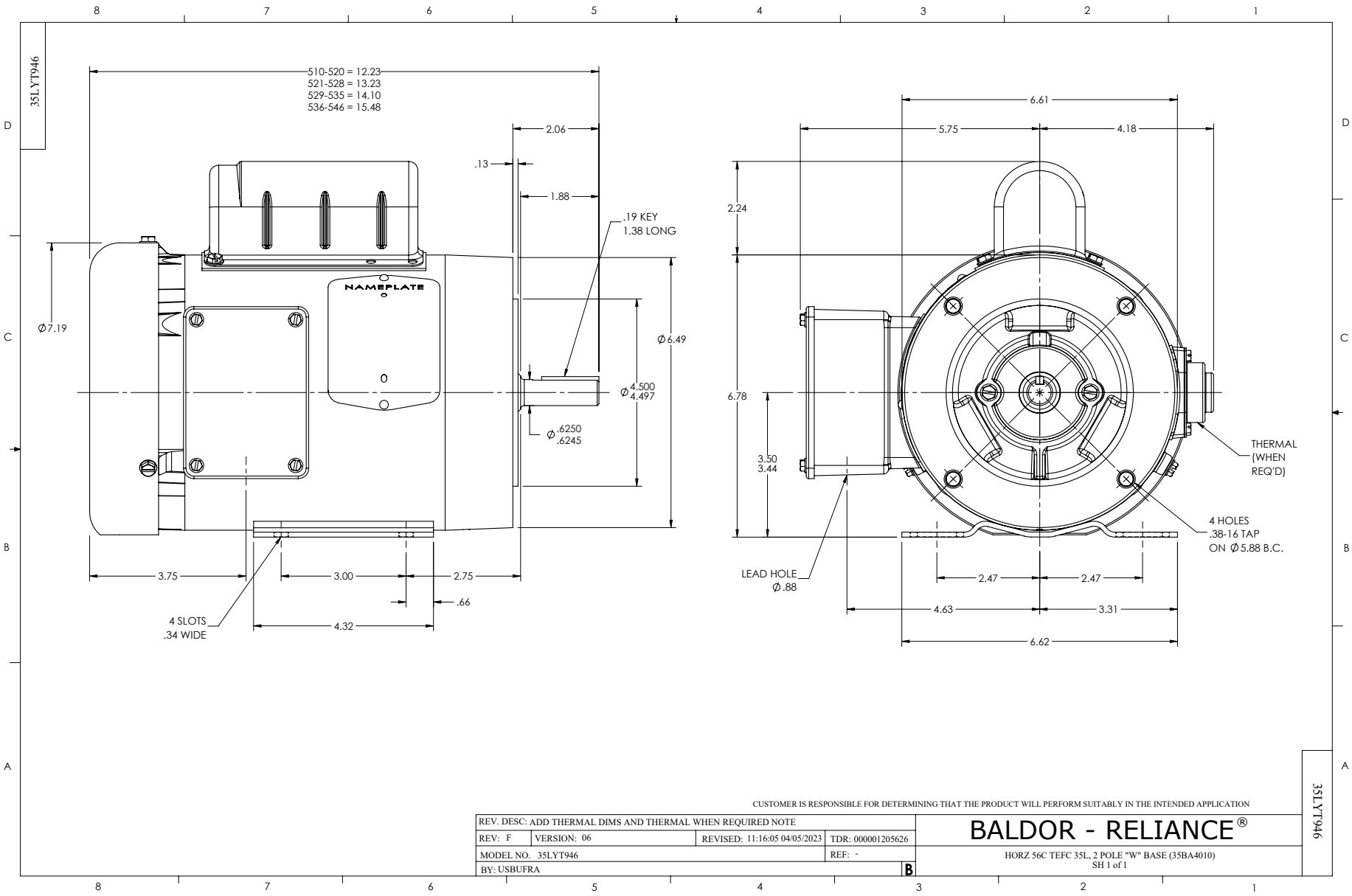
WINDING # 35WG0199

1.5 HP 1 PH 60 HZ 3450 RPM 115 V 3528L

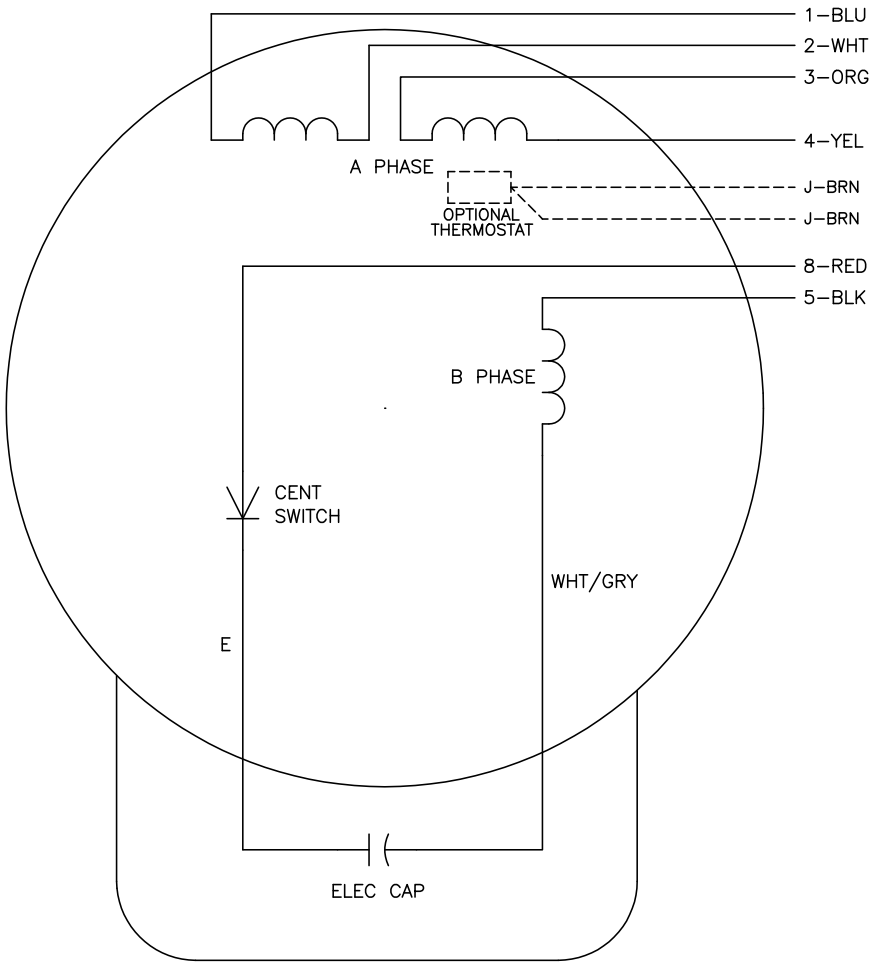
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=5.6 PU=5.2 LR=5.5 LRA=84




35LYT946
510-520 = 12.23
521-528 = 13.23
529-535 = 14.10
536-546 = 15.48
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
3.75
3.00
2.75
.66
4.32
4 SLOTS
.34 WIDE
6.61
5.75
4.18
2.24
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
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: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: F
VERSION: 06
REVISED: 11:16:05 04/05/2023
TDR: 000001205626
MODEL NO. 35LYT946
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 56C TEFC 35L, 2 POLE "W" BASE (35BA4010)
SH 1 of 1
35LYT946

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