ABB BALDOR RELIANCE

Customer information packet

VWDL3510

1HP, 1725RPM, 1PH, 60HZ, 56C, 3524L, TEFC, F1, N
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	1.000 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	CSA
	UR
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	6.200 A @ 230.0 V
	12.400 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.2 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35S583
Base	
Status	PRD/A
Elec. spec.	35WGG376
Layout	35LYS583
Eff. date	06-28-2024
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.25 IN
Power Factor	76
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1725 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

NP1496L									
CAT.NO.	VWDL3510								
SPEC.	35S583G376								
HP	1								
VOLTS	115/230								
AMP	12.5/6.3								
RPM	1750								
FRAME	56C	**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	L	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	74	**PF**	69						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
	SFA 13.9/6.95								

AC Induction Motor Performance Data
Record # 94946
Typical performance - not guaranteed values

Winding: 35WGG376-R001	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.01 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			12.5/6.3	**Breakdown Torque**	9.7 LB-FT
R.P.M.			1750	**Pull-up Torque**	7.8 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	13.9 LB-FT
NEMA Design Code	L	**KVA Code**	L	**Starting Current**	85.3 A
Service Factor (S.F.)			1.15	**No-load Current**	9.53 A
NEMA Nom. Eff.	74	**Power Factor**	69	**Line-line Res. @ 25ºC**	0.525 Ω A Ph 1.17 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps			13.9/6.95	**Temp. Rise @ S.F. Load**	70°C
				Locked-rotor Power Factor	94.8
				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	33	48	60	69	76	80	80
Efficiency	53.5	67.3	72.9	74.9	74.6	72.8	67.2
Speed	1786	1775	1763	1750	1735	1714	1704
Line amperes	9.3	9.98	11.06	12.51	14.28	16.82	13.9

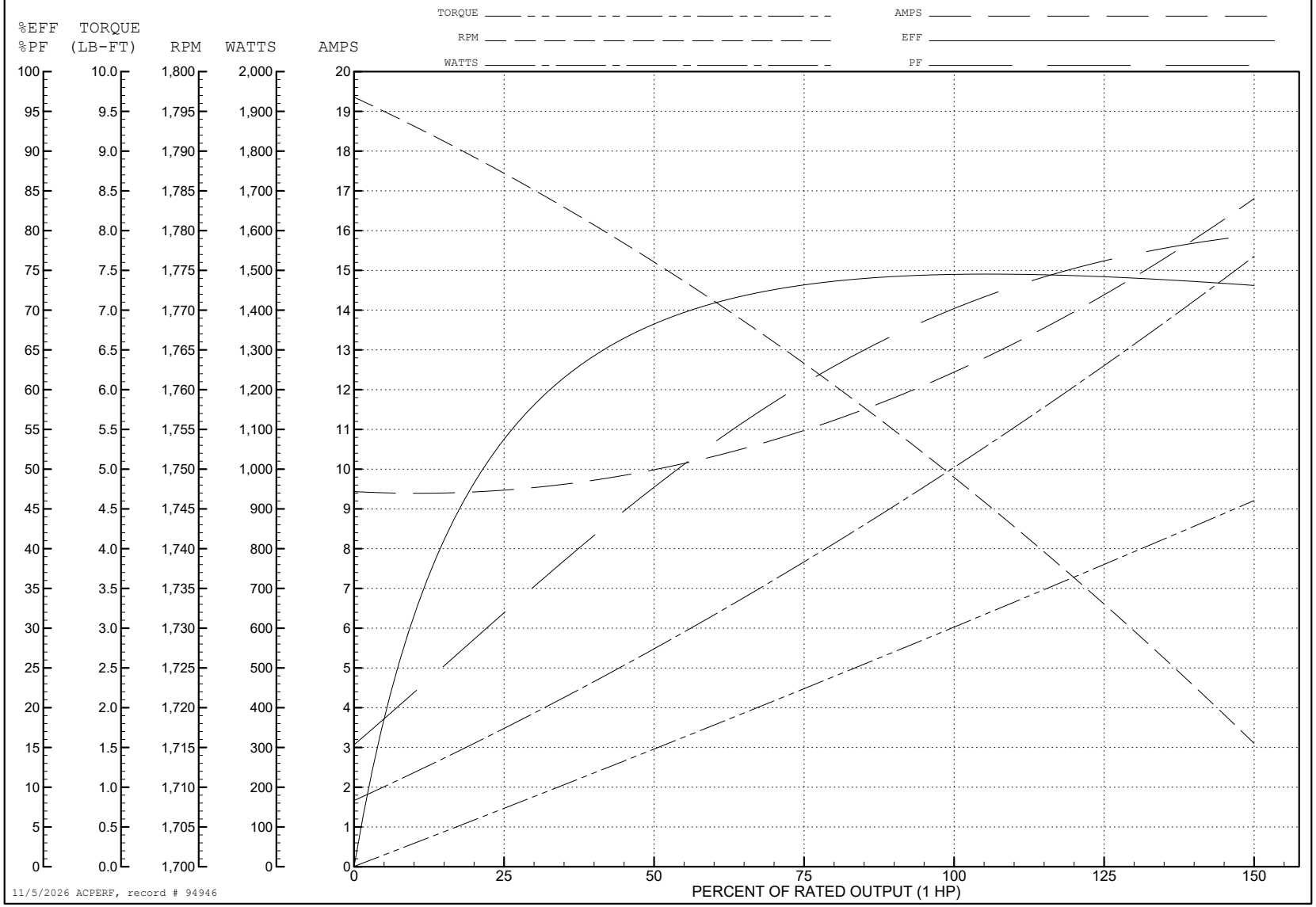
ABB Motors and Mechanical Inc.

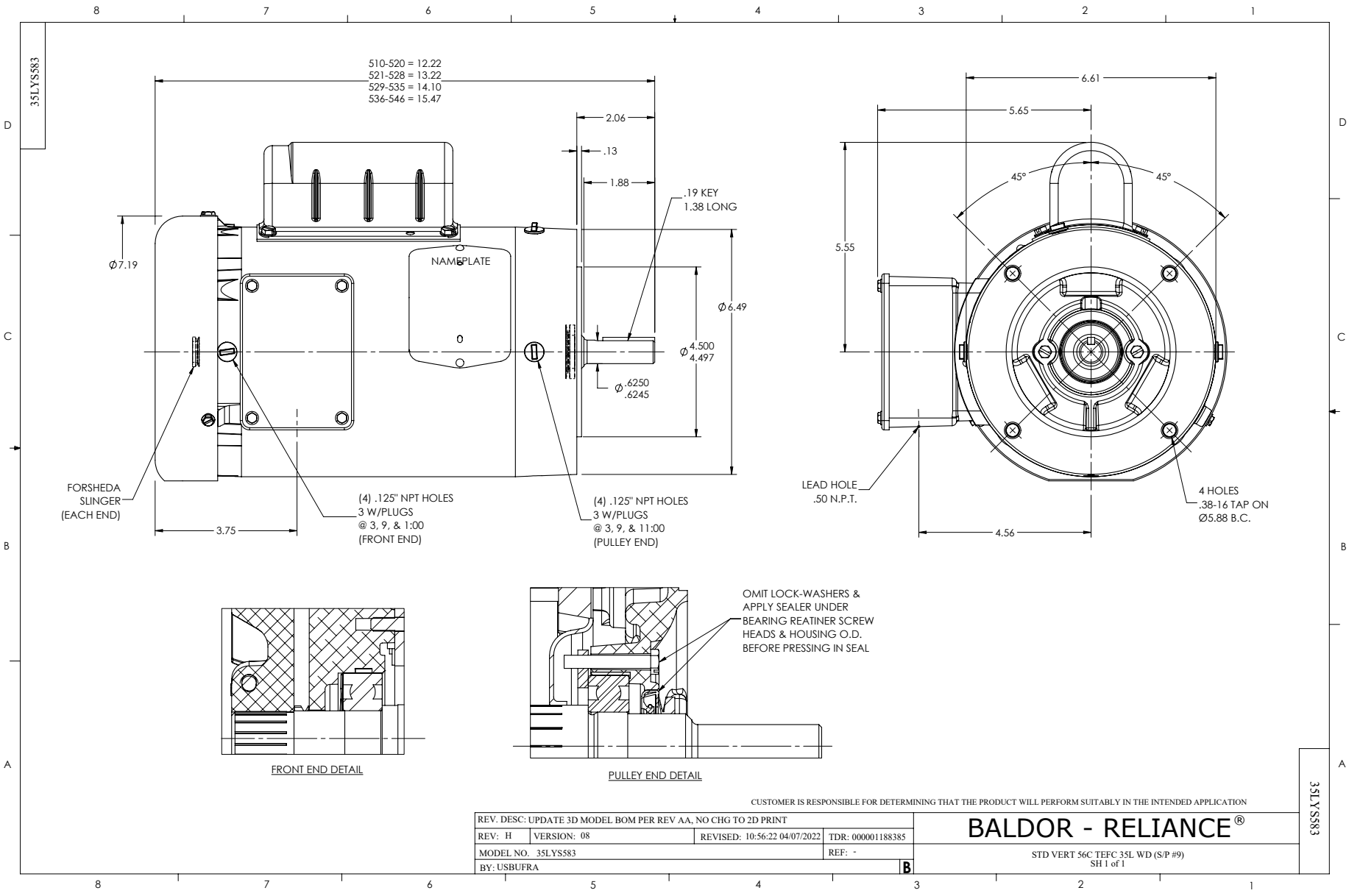
WINDING # 35WGG376

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

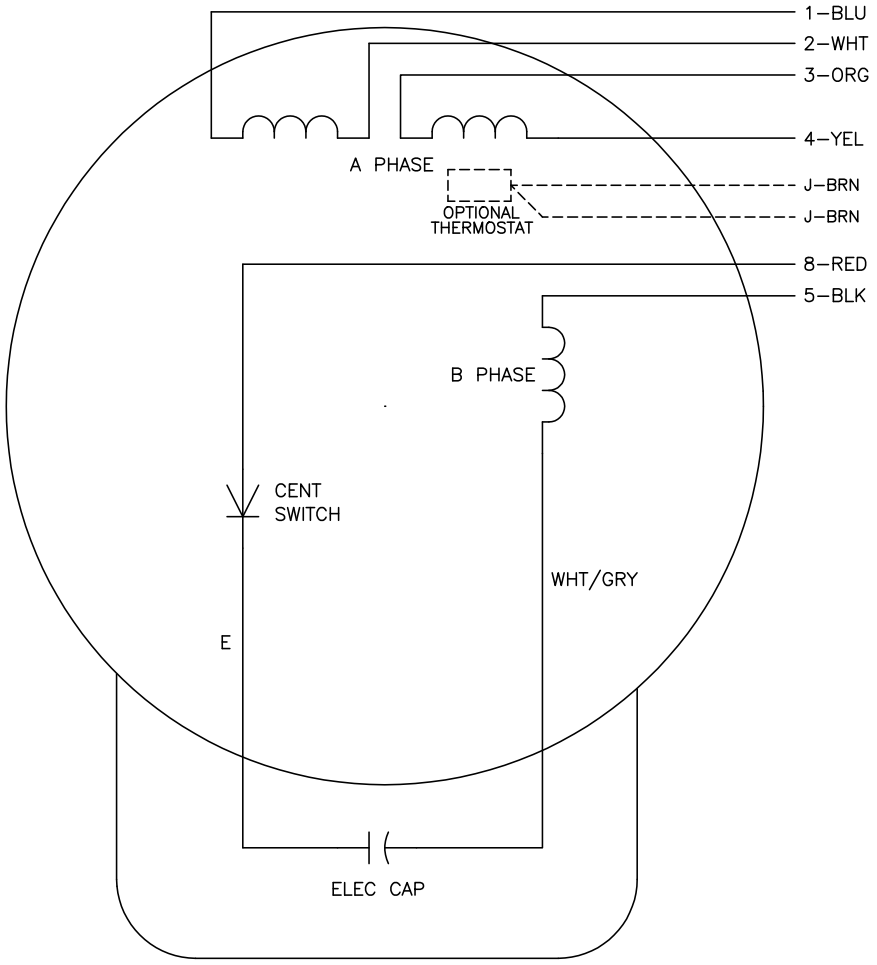
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.7 PU=7.8 LR=13.9 LRA=85.3




35LYS583
510-520 = 12.22
521-528 = 13.22
529-535 = 14.10
536-546 = 15.47
2.06
.13
1.88
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
FORSHEDA
SLINGER
(EACH END)
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
(FRONT END)
3.75
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
6.61
5.65
45°
45°
5.55
LEAD HOLE
.50 N.P.T.
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
4.56
OMIT LOCK-WASHERS &
APPLY SEALER UNDER
BEARING REATINER SCREW
HEADS & HOUSING O.D.
BEFORE PRESSING IN SEAL
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV AA, NO CHG TO 2D PRINT
REV: H
VERSION: 08
REVISED: 10:56:22 04/07/2022
TDR: 000001188385
MODEL NO. 35LYS583
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 56C TEFC 35L WD (S/P #9)
SH 1 of 1
35LYS583

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