

ABB BALDOR RELIANCE III

Customer information packet

VWDL3507

.75HP, 1750RPM, 1PH, 60HZ, 56C, 3522L, TEFC, F1

Class - None

Division - Not Applicable

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	.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	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	5.000 A @ 230.0 V 10.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.0 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35S583
Base	
Status	PRD/A
Elec. spec.	35WGG393
Layout	35LYS583
Eff. date	10-27-2023
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

Inverter Code	Not Inverter
KVA Code	L
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	3522L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.22 IN
Power Factor	69
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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	None
Winding Thermal 2	None

Nameplate

NP1496L											
CAT.NO.	VWDL3507										
SPEC.	35S583G393										
HP	.75										
VOLTS	115/230										
AMP	10/5										
RPM	1750										
FRAME	56C		HZ	60			PH	1			
SER.F.	1.25	CODE	L	DES	N		CLASS	F			
NEMA-NOM-EFF	70	PF	69								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TEFC	SN									
	SFA 12.6/6.3										

AC Induction Motor Performance Data

Record # 89059

Typical performance - not guaranteed values

Winding: 35WGG393-R001			Type: 3522L		Enclosure: TEFC		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		2.24 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		8.7/4.35	Breakdown Torque		4.86 LB-FT		
R.P.M.		1720	Pull-up Torque		4 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		8.91 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		59.09 A
Service Factor (S.F.)		1.25		No-load Current		4.92 A	
NEMA Nom. Eff.		70	Power Factor	79	Line-line Res. @ 25°C		1.14 Ω A Ph 1.85 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		91°C	
S.F. Amps		10.9/5.45		Temp. Rise @ S.F. Load		119°C	
				Locked-rotor Power Factor		97	
				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	41	58	70	77	82	85	81
Efficiency	57.2	69.2	71.9	72.1	70	66	70.9
Speed	1784	1770	1754	1737	1716	1687	1716
Line amperes	5.24	6.06	7.22	8.64	10.38	12.49	10.3

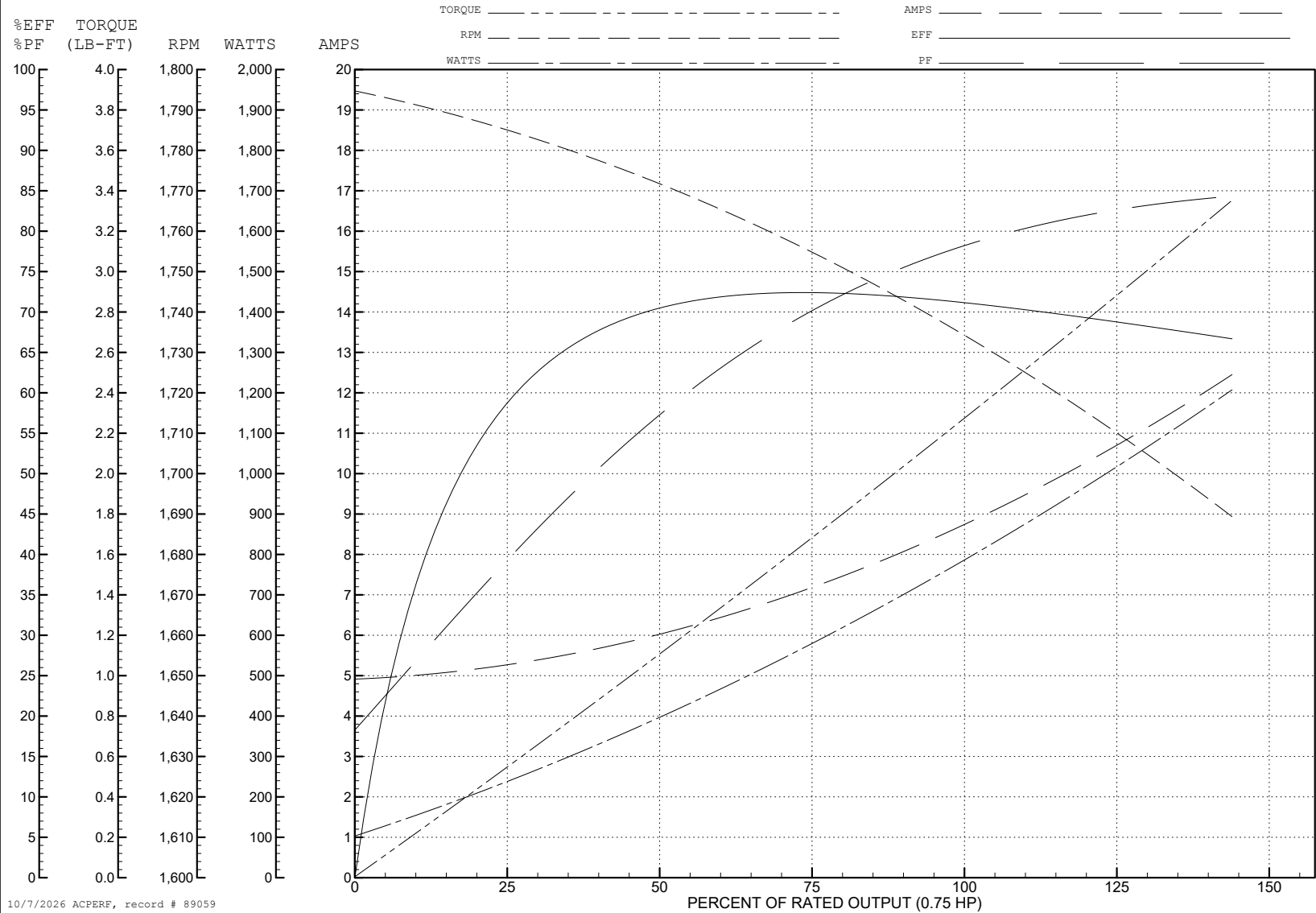
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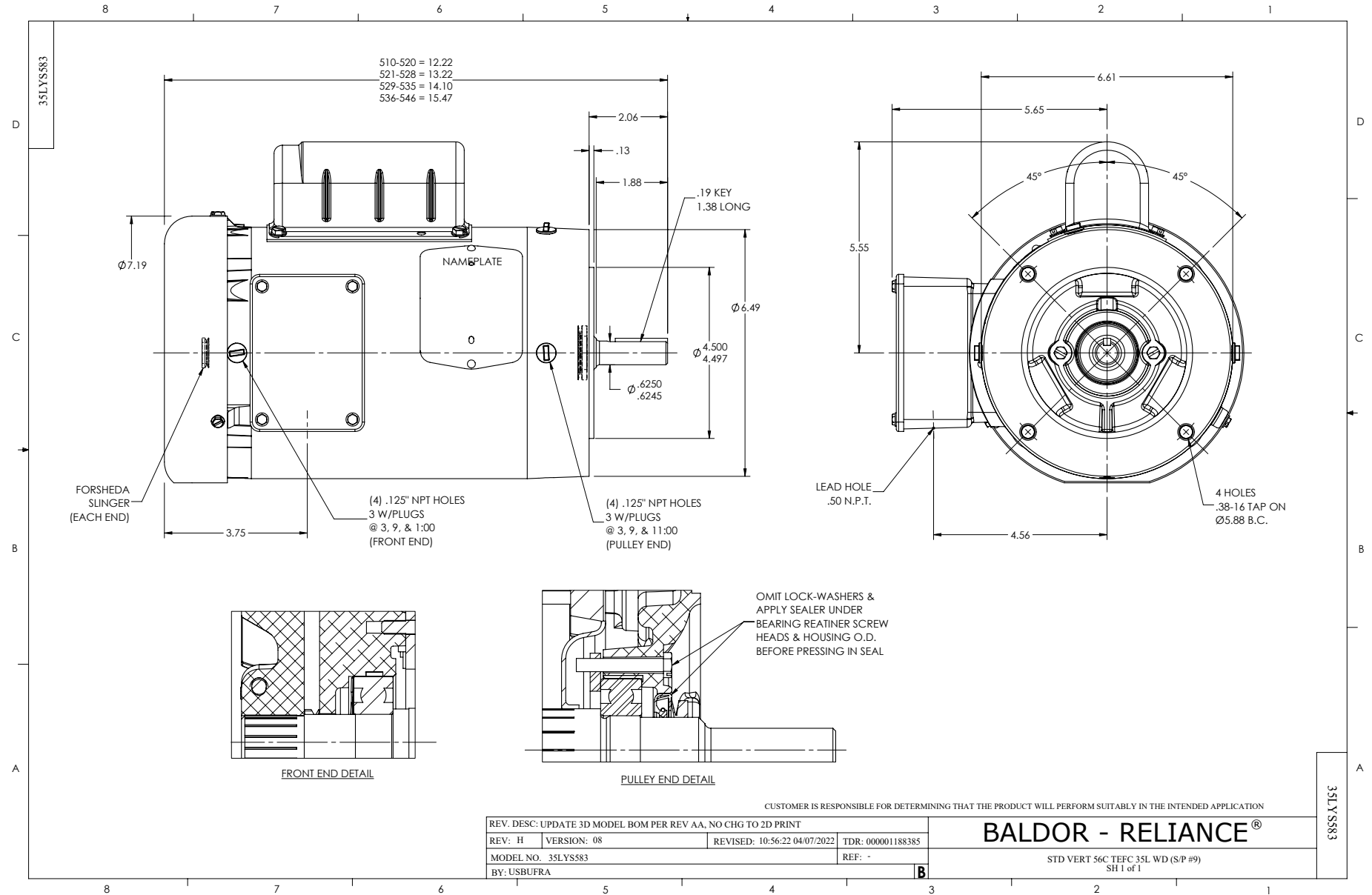
WINDING # 35WGG393

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1720 RPM 115 V 3522L

TORQUES (LB-FT) : PO=4.86 PU=4 LR=8.91 LRA=59.09





CD0001

