

ABB BALDOR RELIANCE III

Customer information packet

BL3510

1HP, 1750RPM, 1PH, 60HZ, 56, 3528L, TEFC, F1, BR

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.300 A @ 230.0 V 12.500 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.3 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35C022
Base	
Status	PRD/A
Elec. spec.	35WGG376
Layout	35LYC022
Eff. date	12-17-2024
CD Diagram	CD0001
Poles	04
Leads	6#18 Y
Proprietary	False
Created date	02-23-2023

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.11 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	No 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

NP1256L									
CAT.NO.	BL3510								
SPEC.	35C022G376								
HP	1								
VOLTS	115/230								
AMP	12.5/6.3								
RPM	1750								
FRAME	56		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. @ 25°C	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

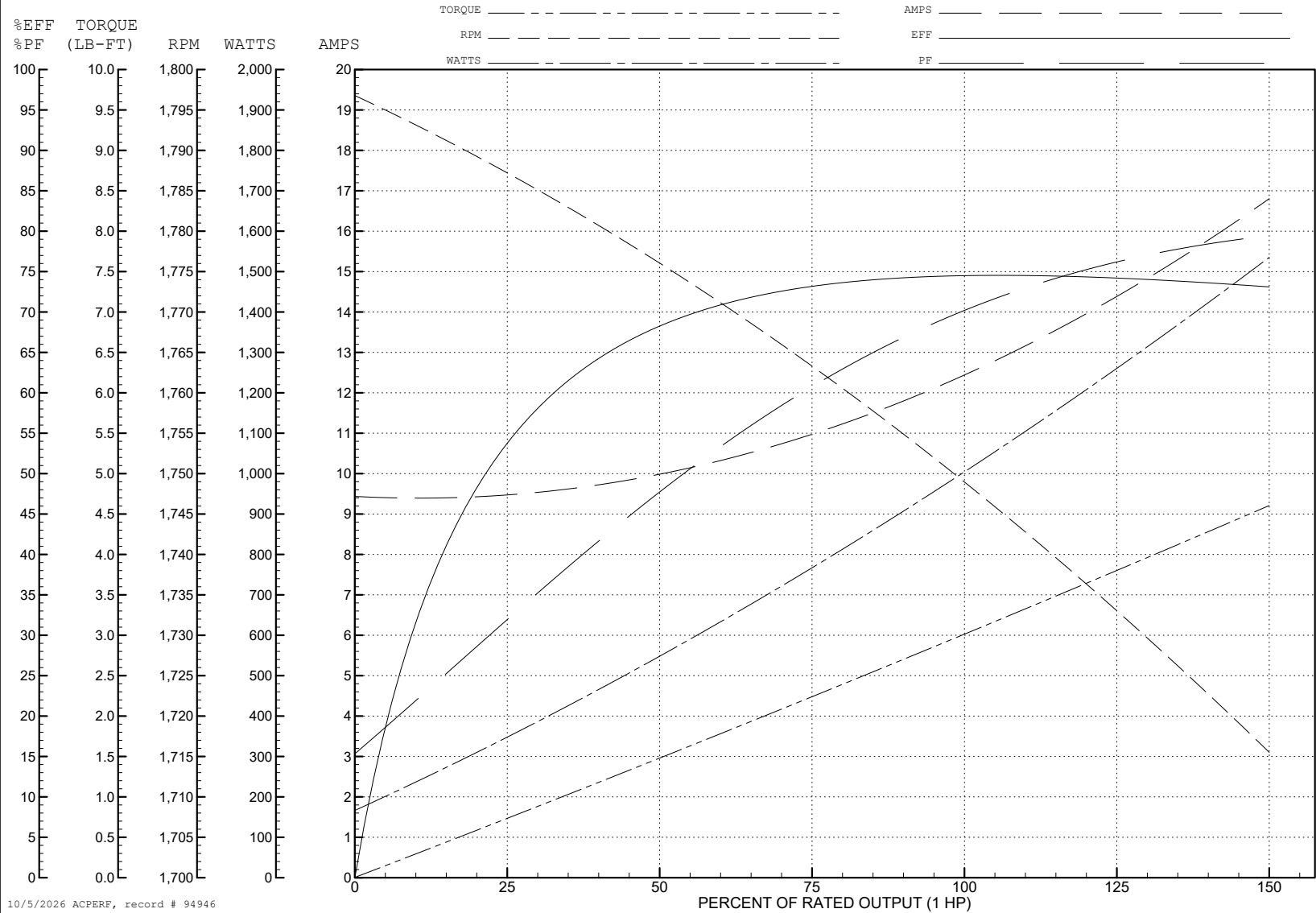
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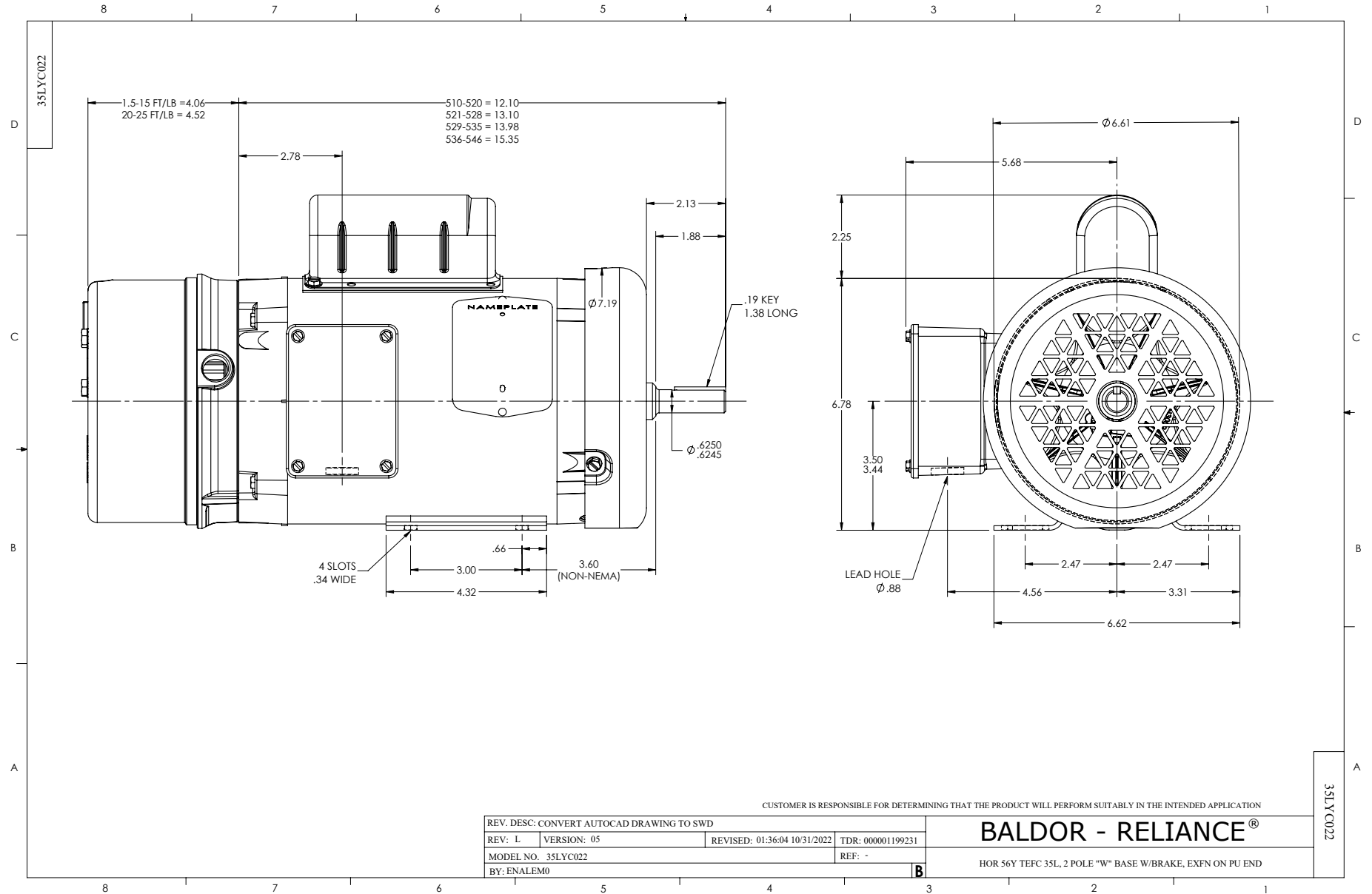
WINDING # 35WGG376

Typical performance - not guaranteed values.

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

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





CD0001

