

ABB BALDOR RELIANCE III

Customer information packet

VL1321T

1.5HP, 1730RPM, 1PH, 60HZ, 145TC, 3536L, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	145TC
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	1800 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	8.300 A @ 208.0 V 7.800 A @ 230.0 V 15.500 A @ 115.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.8 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35DD005
Base	
Status	PRD/A
Elec. spec.	35WGG406
Layout	35LYDD005
Eff. date	07-02-2024
CD Diagram	CD0001
Poles	04
Leads	4#14 A PH,2#18 B PH
Proprietary	False
Created date	08-01-2022

Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3536L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.54 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1730 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.	VL1321T								
SPEC.	35DD00G406								
HP	1.5								
VOLTS	115/230								
AMP	15.5/7.8								
RPM	1730								
FRAME	145TC		HZ	60			PH	1	
SER.F.	1.15		CODE	M	DES	L	CLASS	F	
NEMA-NOM-EFF	75.5		PF	80					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	OPEN		SN						

AC Induction Motor Performance Data

Record # 89156

Typical performance - not guaranteed values

Winding: 35WGG406-R001				Type: 3536L		Enclosure: OPEN	
Nameplate Data				115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1.5		Full Load Torque		4.56 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		15.5/7.8		Breakdown Torque		9.82 LB-FT	
R.P.M.		1730		Pull-up Torque		9.83 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		14.77 LB-FT	
NEMA Design Code		L	KVA Code	M	Starting Current		100 A
Service Factor (S.F.)		1.15		No-load Current		10.35 A	
NEMA Nom. Eff.		75.5	Power Factor	80	Line-line Res. @ 25°C		0.446 Ω A Ph 1.18 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		82°C	
S.F. Amps				Temp. Rise @ S.F. Load		101°C	
				Locked-rotor Power Factor		90.9	
				Rotor inertia		0.261 lb-ft²	

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	62	73	81	83	85	82
Efficiency	66.2	75.9	78.2	77.1	73.2	67.7	74.8
Speed	1782	1767	1748	1728	1697	1658	1709
Line amperes	8.89	10.27	12.73	15.64	19.99	25.47	18.2

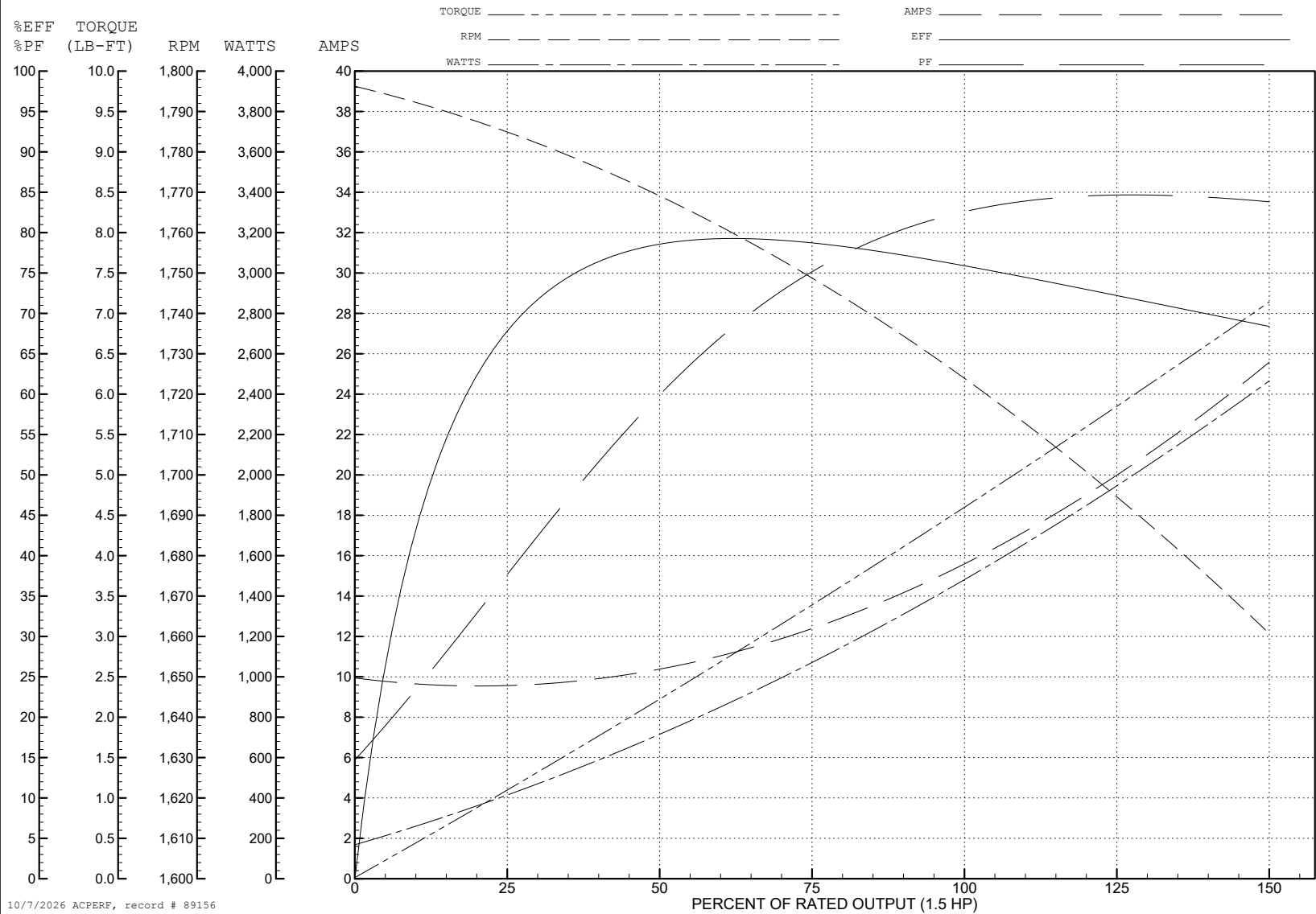
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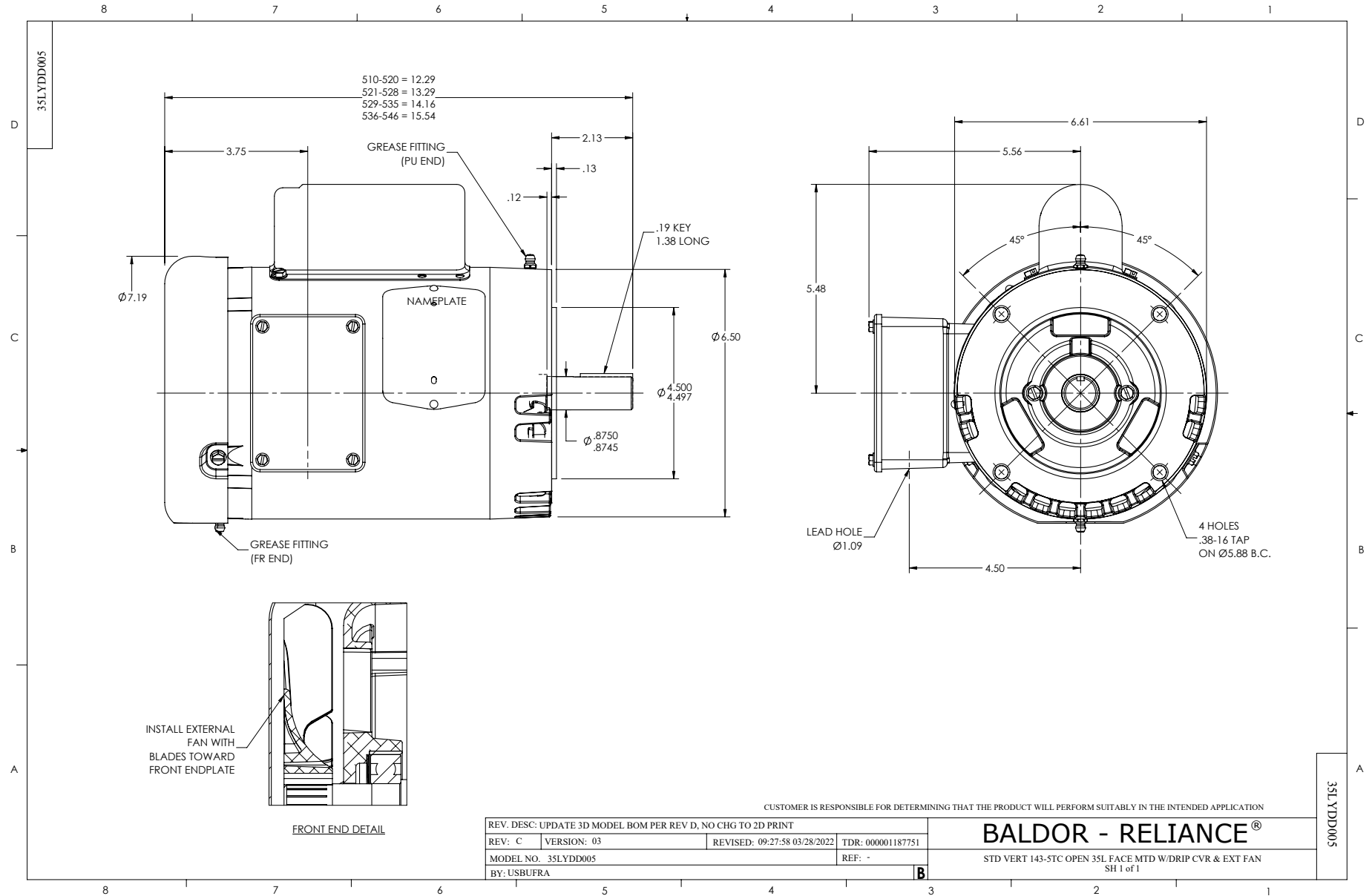
WINDING # 35WGG406

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1730 RPM 115 V 3536L

TORQUES (LB-FT): PO=9.82 PU=9.83 LR=14.77 LRA=100





CD0001

