

ABB BALDOR RELIANCE III

Customer information packet

VL3515T

2HP, 3450RPM, 1PH, 60HZ, 145TC, 3535L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUS 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	11.500 A @ 230.0 V 12.000 A @ 208.0 V 23.000 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	Y
Type	AC
Mech. spec.	35Y522
Base	
Status	PRD/A
Elec. spec.	35WG0506
Layout	35LYY522
Eff. date	01-13-2026
CD Diagram	CD0001
Poles	02
Leads	4#14 A PH,2#18 B PH
Proprietary	False
Created date	12-04-2009

High Voltage Full Load Amps	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3535L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.16 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	0.875 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.	VL3515T								
SPEC.	35Y522-0506G1								
HP	2								
VOLTS	115/230								
AMP	23/11.5								
RPM	3450								
FRAME	145TC		HZ	60			PH	1	
SER.F.	1.15	CODE	K	DES	L	CLASS	F		
NEMA-NOM-EFF	74	PF	82						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 20312

Typical performance - not guaranteed values

Winding: 35WG0506-R001			Type: 3535L		Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		2	Full Load Torque		3 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		23/11.5	Breakdown Torque		9 LB-FT			
R.P.M.		3450	Pull-up Torque		6 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		7.5 LB-FT		
NEMA Design Code		L	KVA Code	K	Starting Current		78 A	
Service Factor (S.F.)		1.15	No-load Current		6 A			
NEMA Nom. Eff.		74	Power Factor		82	Line-line Res. @ 25°C		0.864 Ω A Ph 1.26 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		82°C	
S.F. Amps			Temp. Rise @ S.F. Load		91°C			

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	65	75	81	85	87	83
Efficiency	49.1	64.2	70.5	73.4	74.3	74.1	73.9
Speed	3569	3548	3524	3499	3471	3438	3482
Line amperes	6.65	7.75	9.2	10.9	12.9	15.1	12.1

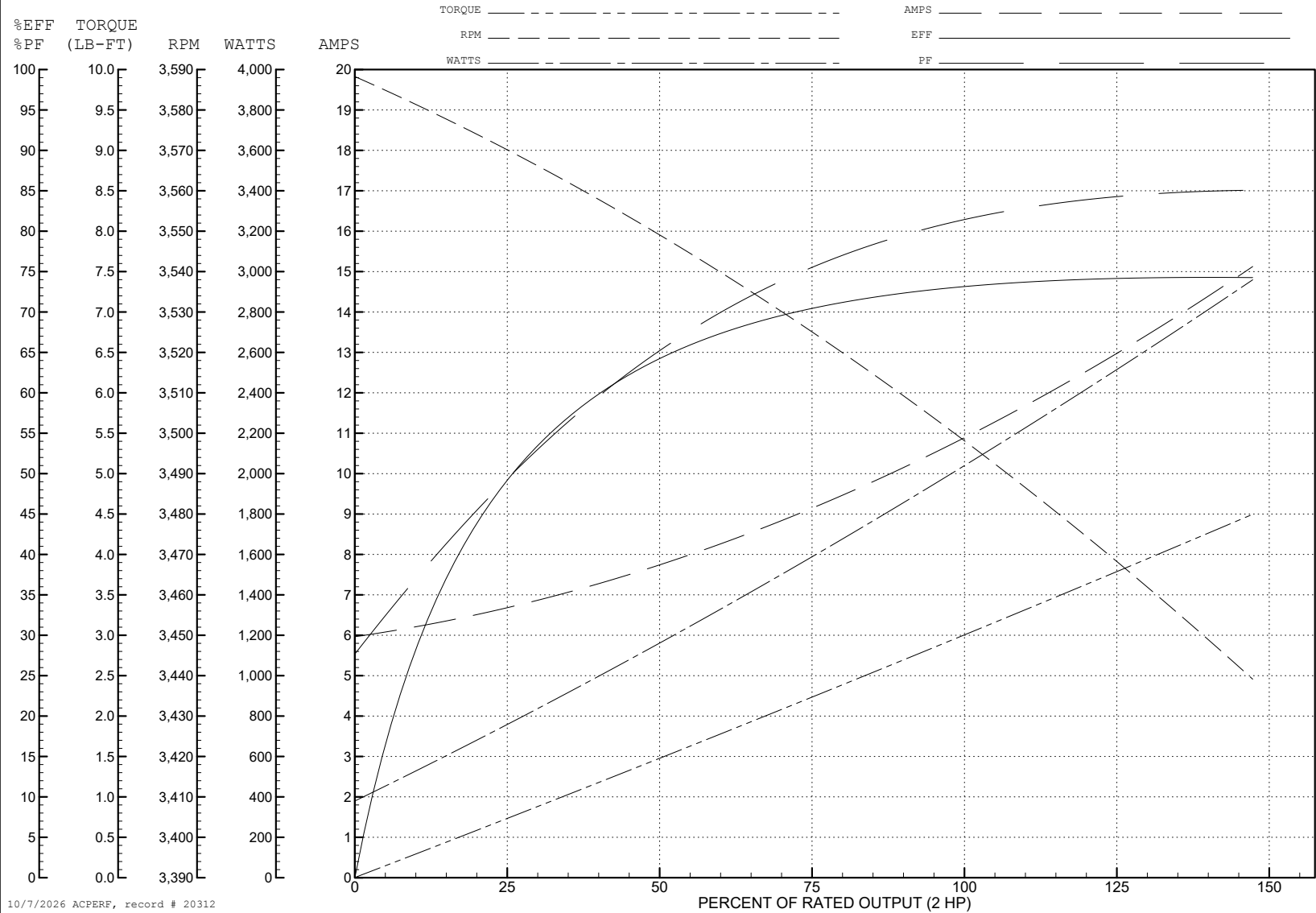
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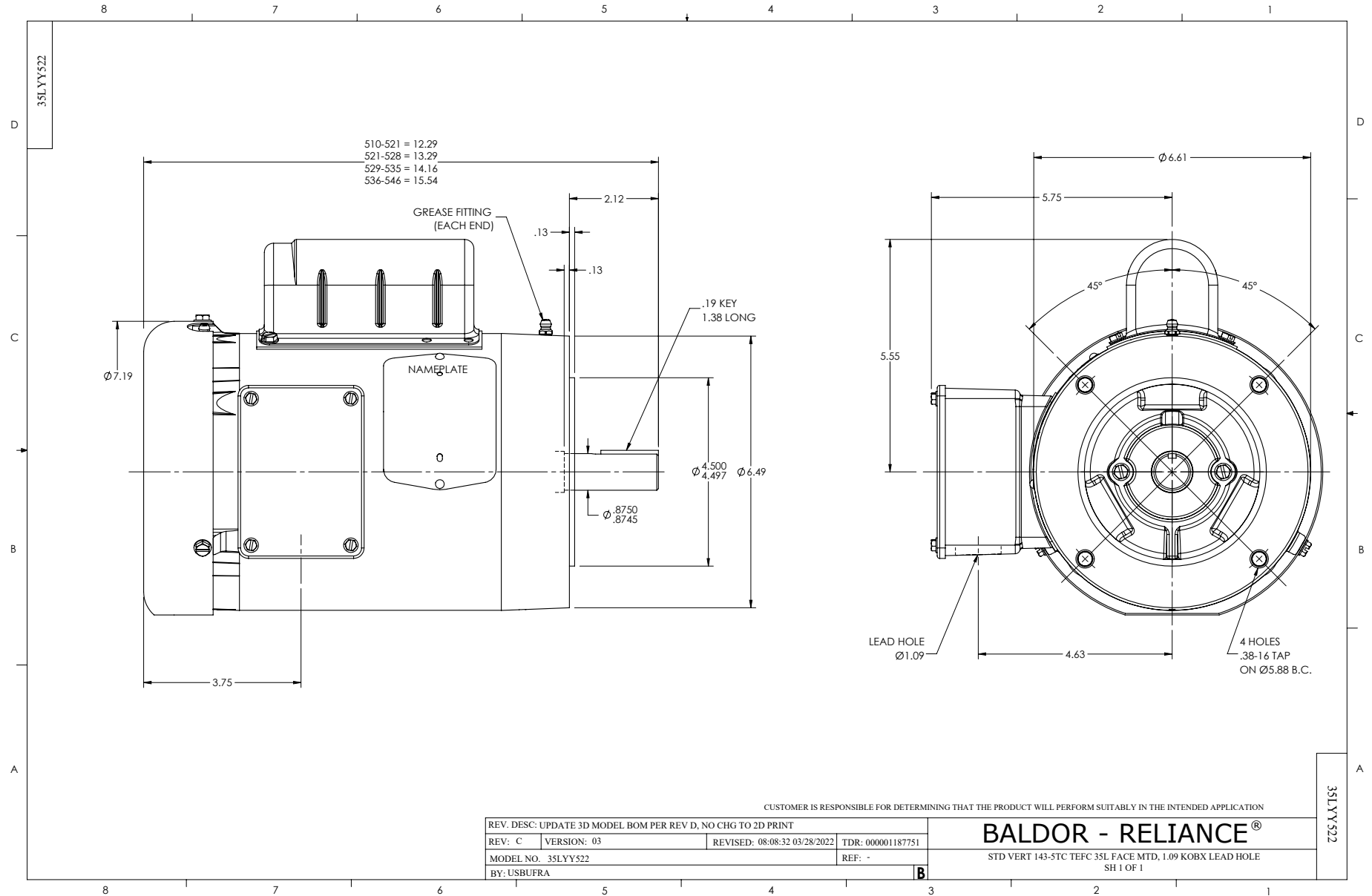
WINDING # 35WG0506

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 3450 RPM 230 V 3535L

TORQUES (LB-FT) : PO=9 PU=6 LR=7.5 LRA=78





CD0001

