

ABB BALDOR RELIANCE III

Customer information packet

VBL3510T

1HP, 1740RPM, 1PH, 60HZ, 143TC, 3526LC, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap 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	9.250 A @ 115.0 V 4.650 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.7 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	35E692
Base	
Status	PRD/A
Elec. spec.	35WGG241
Layout	35LYE692
Eff. date	05-05-2025
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

Inverter Code	Not Inverter
KVA Code	J
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	3526LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.86 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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.	VBL3510T								
SPEC.	35E692G241								
HP	1								
VOLTS	115/230								
AMP	9.25/4.65								
RPM	1740								
FRAME	143TC		HZ	60			PH	1	
SER.F.	1.25	CODE	J	DES	L	CLASS		F	
NEMA-NOM-EFF	80	PF	85						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	SFA 11.4/5.7								

AC Induction Motor Performance Data

Record # 88915

Typical performance - not guaranteed values

Winding: 35WGG241-R001			Type: 3526LC		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		3.023 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		9.5/4.75	Breakdown Torque		7.77 LB-FT		
R.P.M.		1740	Pull-up Torque		6.11 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		9.4 LB-FT	
NEMA Design Code		L	KVA Code	K	Starting Current		36.9 A
Service Factor (S.F.)		1.25		No-load Current		2.41 A	
NEMA Nom. Eff.		80	Power Factor	85	Line-line Res. @ 25°C		2.835 Ω A Ph 1.4934 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
S.F. Amps		11.6/5.8		Temp. Rise @ S.F. Load		76°C	
				Locked-rotor Power Factor		96	

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	68	79	85	89	91	89
Efficiency	63.4	75.5	78.5	78.4	76.2	72.2	76.2
Speed	1784.3	1770.7	1755.4	1737.9	1715.6	1686.4	1716
Line amperes	2.62	3.14	3.89	4.83	5.98	7.41	5.98

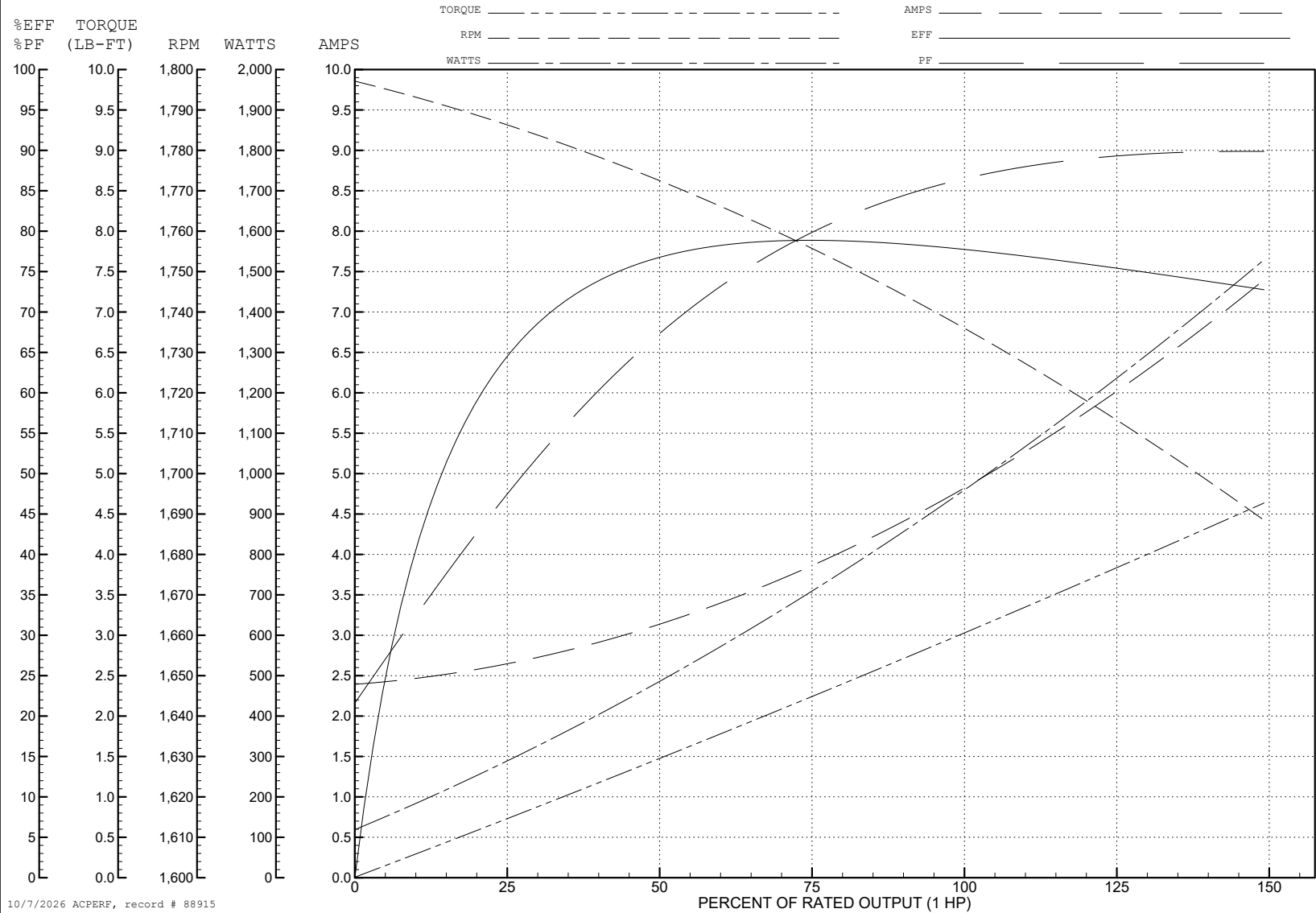
ABB Motors and Mechanical Inc.

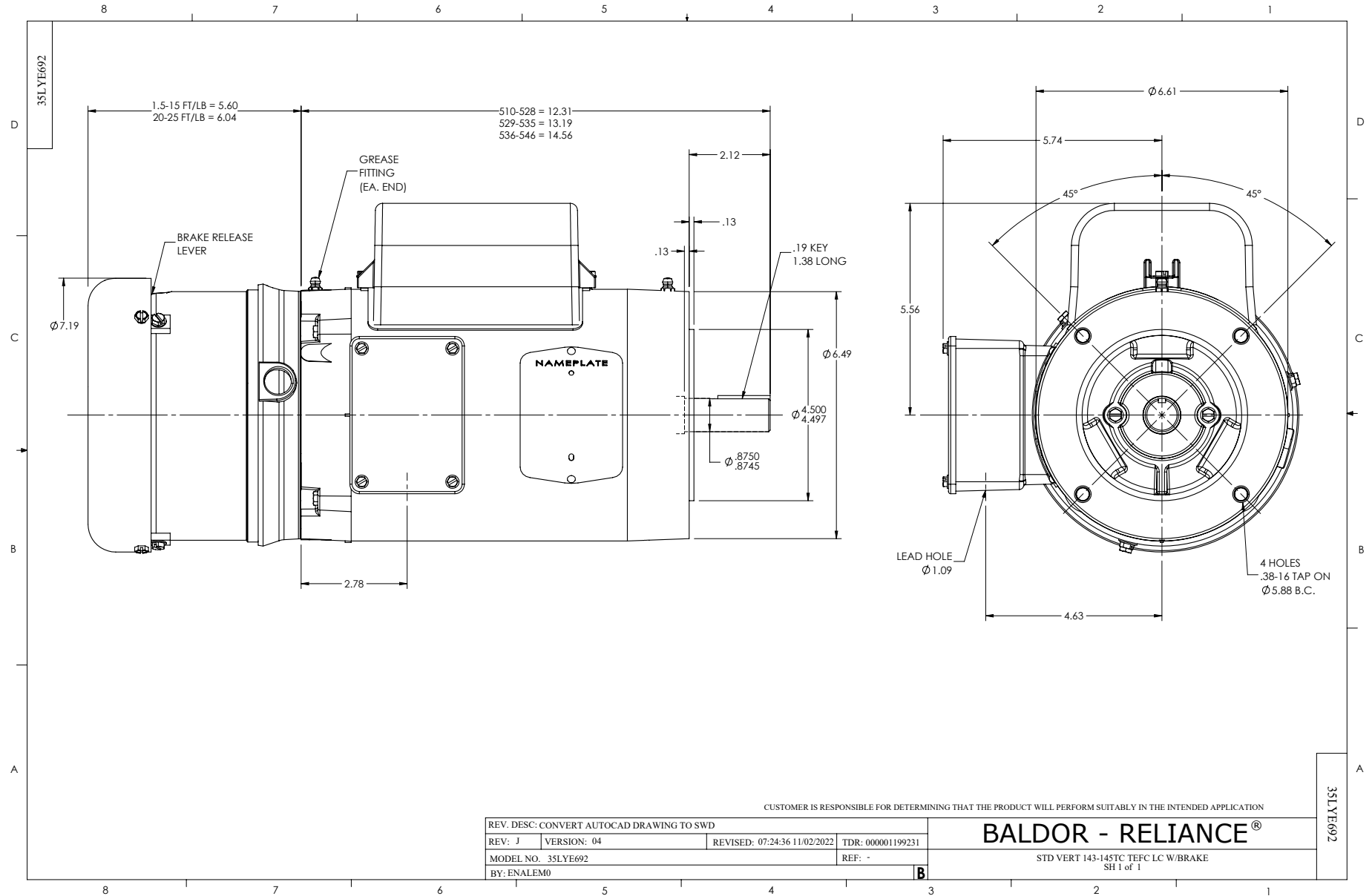
WINDING # 35WGG241

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1740 RPM 230 V 3526LC

TORQUES (LB-FT): PO=7.77 PU=6.11 LR=9.4 LRA=36.9





CD0055

