

ABB BALDOR RELIANCE III

Customer information packet

VL1322T

2HP, 1735RPM, 1PH, 60HZ, 145TC, 3538LC, OPEN, F

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, Cap Run
Output @ Frequency	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 115.0 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	9.200 A @ 208.0 V 8.500 A @ 230.0 V 19.500 A @ 115.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.5 a

Part Detail

Revision	G
Type	AC
Mech. spec.	35EE018
Base	
Status	PRD/A
Elec. spec.	35WGG469
Layout	35LYEE018
Eff. date	12-02-2025
CD Diagram	CD0016A01
Poles	04
Leads	4#16 A PH,3#18 B PH Y
Proprietary	False
Created date	02-23-2023

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3538LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.54 IN
Power Factor	98
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1735 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.	VL1322T								
SPEC.	35EE018G469								
HP	2								
VOLTS	115/208-230								
AMP	19.5/9.2-8.5								
RPM	1735								
FRAME	145TC		HZ	60			PH	1	
SER.F.	1.15	CODE	G	DES	L	CLASS		F	
NEMA-NOM-EFF	78.5	PF	98						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	OPEN	SN							
	SFA 20.4/11.2-10.2								

AC Induction Motor Performance Data

Record # 104654

Typical performance - not guaranteed values

Winding: 35WGG469-R004			Type: 3538LC		Enclosure: OPEN			
Nameplate Data			115 V, 60 Hz: Low Voltage Connection					
Rated Output (HP)		2	Full Load Torque		5.98 LB-FT			
Volts		115/208-230	Start Configuration		direct on line			
Full Load Amps		18.2/9.2-8.2	Breakdown Torque		15.4 LB-FT			
R.P.M.		1735	Pull-up Torque		14.1 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		16.1 LB-FT		
NEMA Design Code		L	KVA Code	G	Starting Current		126 A	
Service Factor (S.F.)		1.15	No-load Current		7.98 A			
NEMA Nom. Eff.		78.5	Power Factor		98	Line-line Res. @ 25°C		0.357 Ω A Ph 0.894 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		48°C	
S.F. Amps		20.4/11.2-10.2	Temp. Rise @ S.F. Load		58°C			
			Locked-rotor Power Factor		92.1			
			Rotor inertia		0.275 lb-ft²			

Load Characteristics 115 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	77	88	93	95	99	94
Efficiency	65.8	79.8	81.6	81.1	79.1	77.6	79.9
Speed	1783	1769	1754	1734	1713	1704	1721
Line amperes	8.68	10.7	13.51	18.2	21.05	22.84	19.9

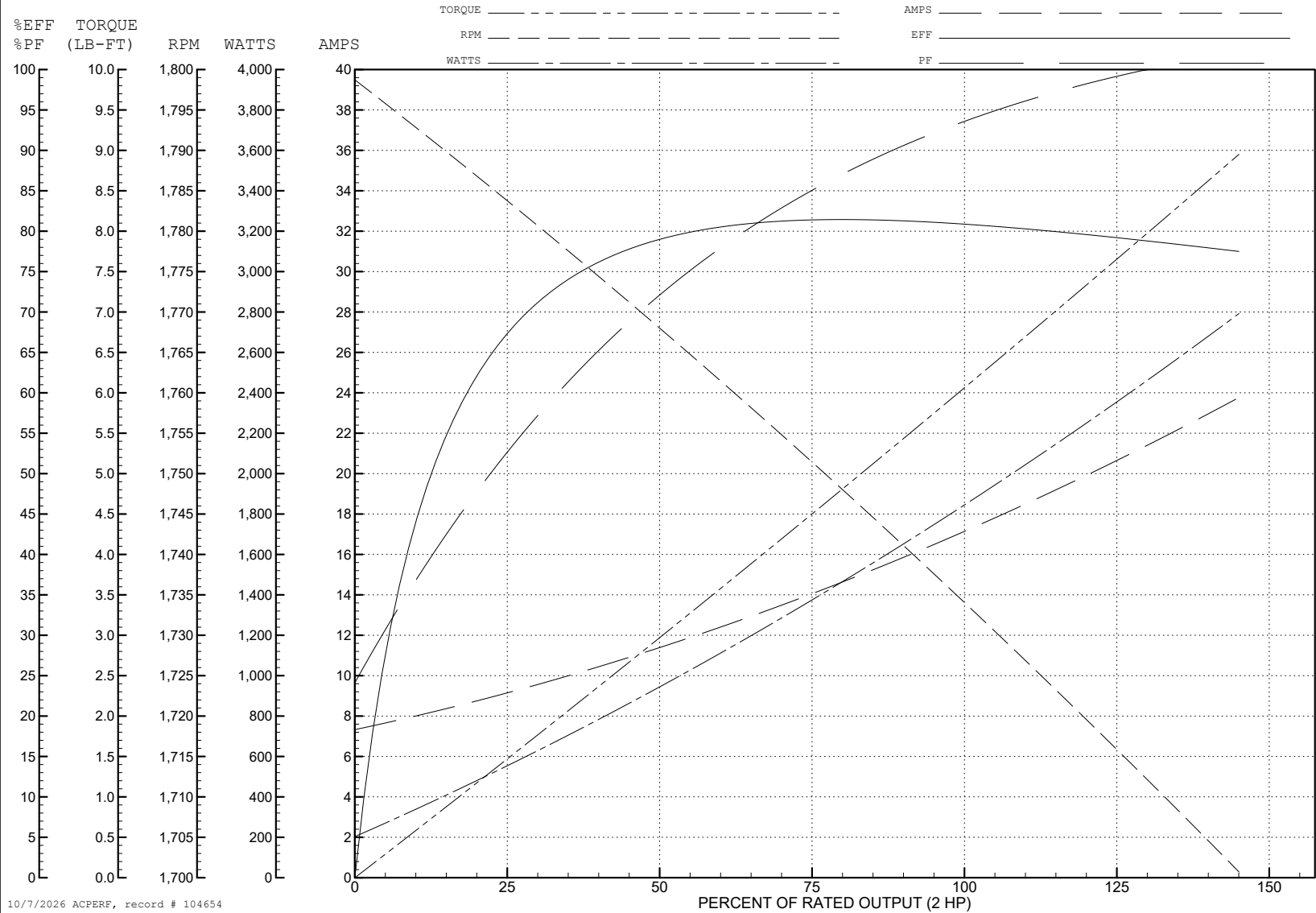
ABB Motors and Mechanical Inc.

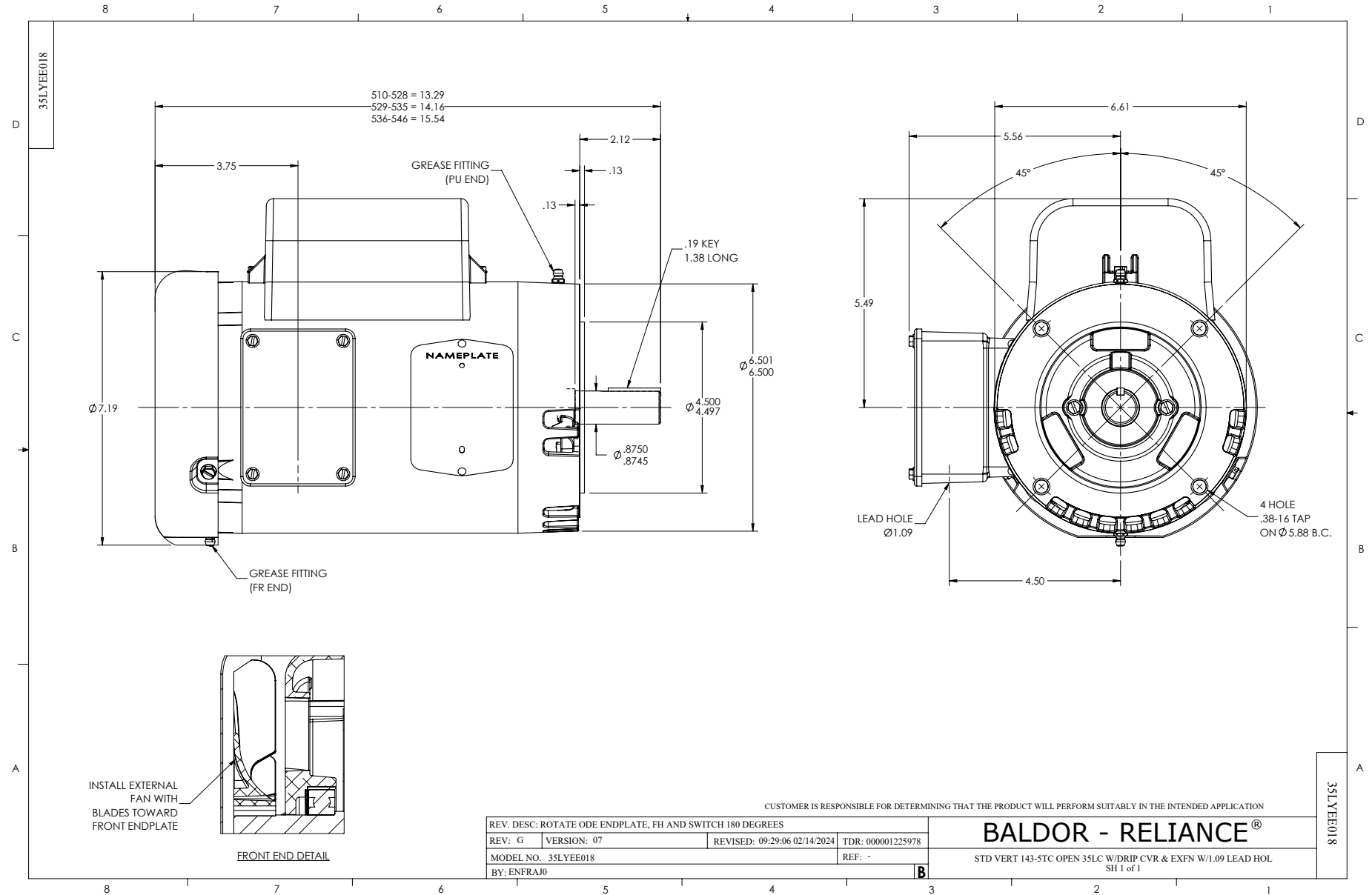
WINDING # 35WGG469

Typical performance - not guaranteed values.

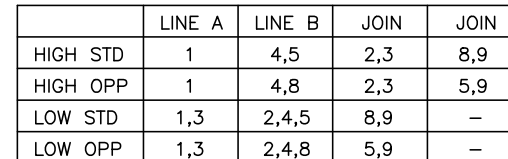
2 HP 1 PH 60 HZ 1735 RPM 115 V 3538LC

TORQUES (LB-FT): PO=15.4 PU=14.1 LR=16.1 LRA=126





CD0016A01



1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

TYPE LC, DV, REV, OIL CAP ACR. LINE, 7 LEADS