

ABB BALDOR RELIANCE III

Customer information packet

EIM3540A-P

1HP, 1760//1450RPM, 3PH, 60//50HZ, 56YZ, 3524

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56YZ
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ 1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA_PREMIUM CSA EEV NEMA PREMIUM 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	1.700 A @ 380.0 V 1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	D
Type	AC
Mech. spec.	35K666
Base	
Status	PRD/A
Elec. spec.	35WGG309
Layout	35LYK666
Eff. date	11-27-2024
CD Diagram	CD0003
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.02 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	No Bearing
Pulley Face Code	No Endplate
Pulley Shaft Indicator	Pump Coupling Shaft
Rodent Screen	None
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1450 rpm 1760 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	Automatic Thermal Overload



Winding Thermal 1 Location	ES
Winding Thermal 2	None

Nameplate

NP3126L														
CAT.NO.	EIM3540A-P													
SPEC.	35K666G309G1													
HP	1													
VOLTS	460//380													
AMP	1.5//1.7													
RPM	1760//1450													
FRAME	56YZ	HZ		60//50			PH		3					
SER.F.	1.00	CODE		M	DES	B	CL	F						
NEMA-NOM-EFF	85.5	PF		72										
RATING	40C AMB-CONT													
CC	010A													
DE				ODE		6203								
ENCL	TENV	SN												
THERMALLY PROTECTED														

AC Induction Motor Performance Data

Record # 100885

Typical performance - not guaranteed values

Winding: 35WGG309-R001		Type: 3524M	Enclosure: TENV
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1	Full Load Torque	2.98 LB-FT
Volts	460//380	Start Configuration	direct on line
Full Load Amps	1.5//1.7	Breakdown Torque	14.3 LB-FT
R.P.M.	1760//1450	Pull-up Torque	10.2 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	11.9 LB-FT
NEMA Design Code	B KVA Code	Starting Current	13.9 A
Service Factor (S.F.)	1	No-load Current	0.97 A
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	15 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	66°C
		Locked-rotor Power Factor	62.7
		Rotor inertia	0.173 lb-ft ²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	32	50	63	72	78	82
Efficiency	73.5	82.9	85.7	86.2	86	85.1
Speed	1788	1778	1768	1756	1744	1732
Line amperes	1.01	1.12	1.28	1.5	1.73	2

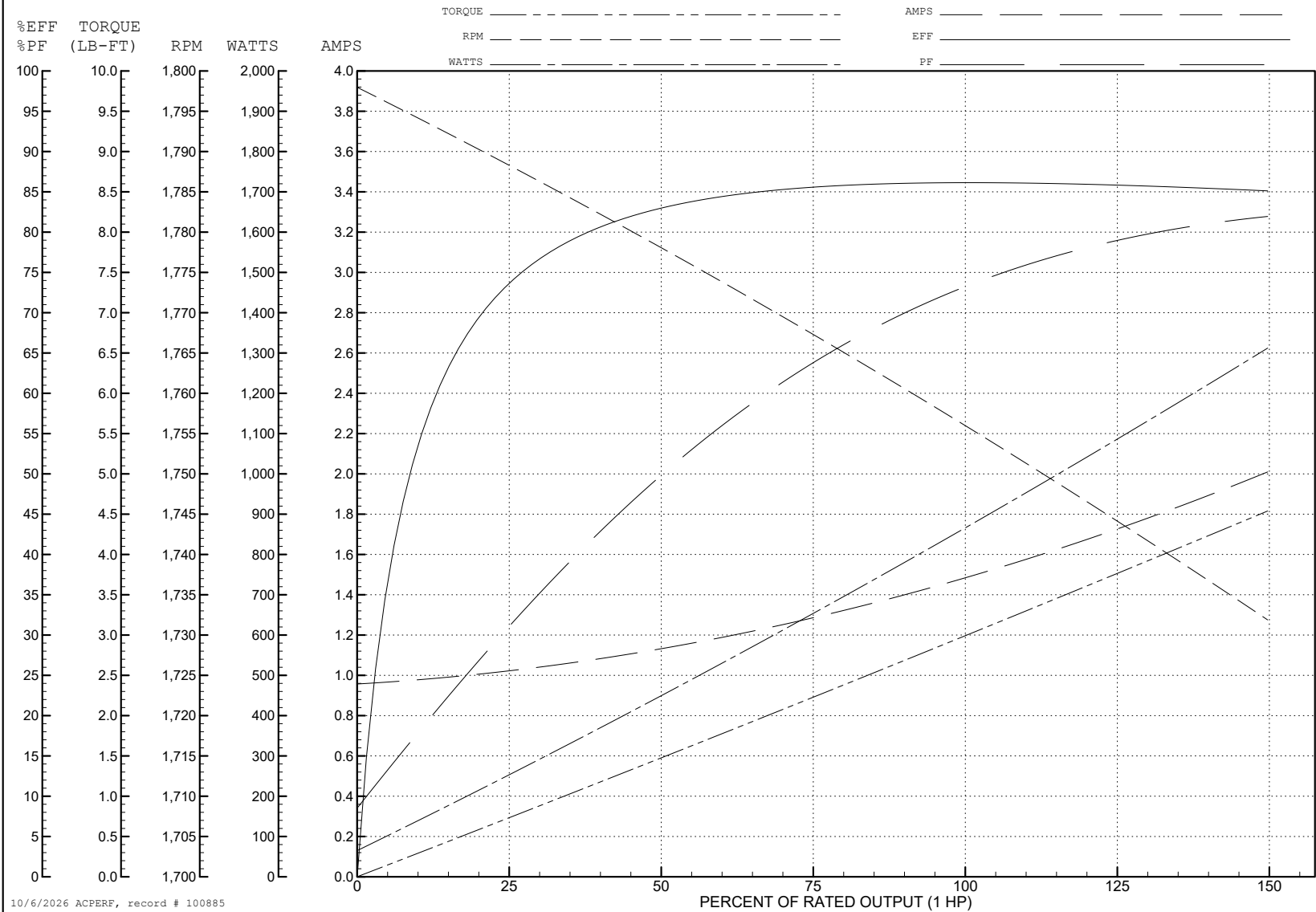
ABB Motors and Mechanical Inc.

WINDING # 35WGG309

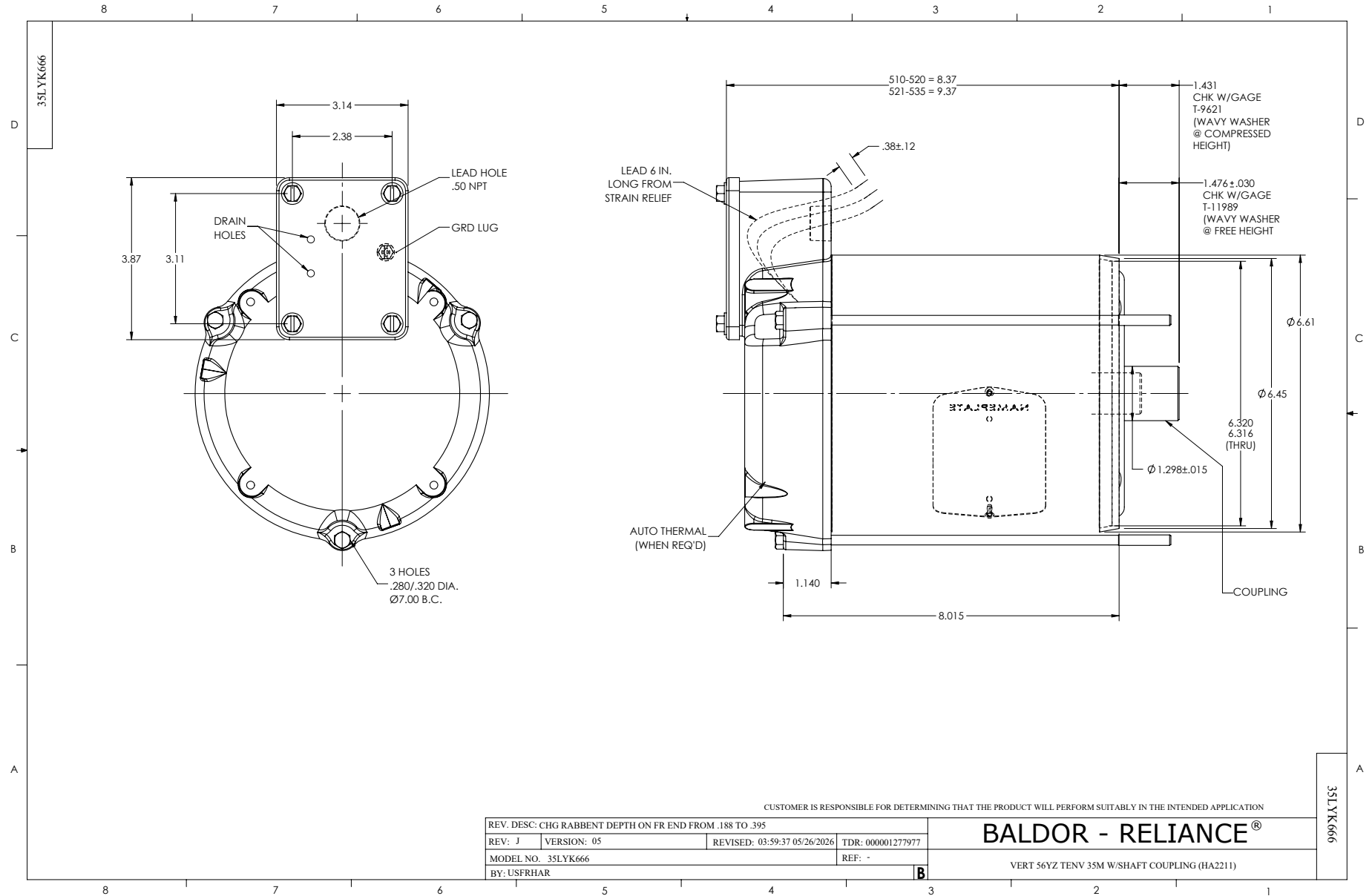
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1756 RPM 460 V 3524M

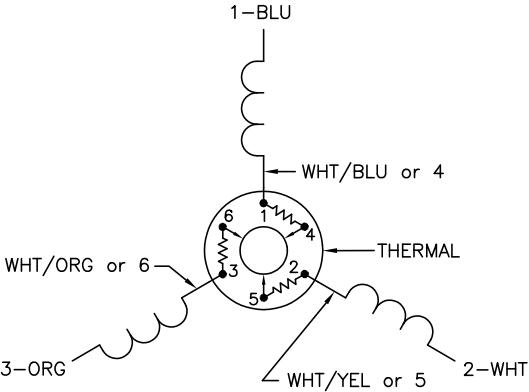
TORQUES (LB-FT): PO=14.3 PU=10.2 LR=11.9 LRA=13.9



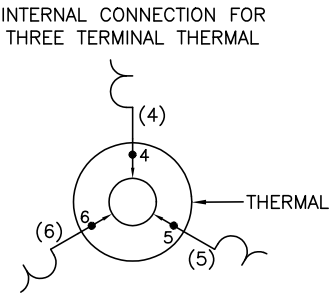
10/6/2026 ACPERF, record # 100885



CD0003



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 - 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.



REV. DESC: CORRECT LEAD MARKING			
REV. LTR: F	BY: JLP	REVISED: 04/14/99 8:23	TDR: 0178963
Σ00000		FILE: AAA00008369	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, THERMAL, 3 LEADS

CD0003