

**BALDOR • RELIANCE**

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# Customer information packet

## CNM3539

.5HP, 1175RPM, 3PH, 60HZ, 56C, 3522M, TENV, F1

Class - None

Division - Not Applicable

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6/9/2025 4:22:06 AM

## Specifications

Enclosure	TENV
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.000 A @ 460.0 V 2.000 A @ 208.0 V 2.000 A @ 230.0 V
Design Code	B
Drip Cover	No 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	1.0 a

## Part detail

Revision	B
Type	AC
Mech. spec.	35E012
Base	
Status	PRD/A
Elec. spec.	35WGG338
Layout	35LYE012
Eff. date	05-07-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	M
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	9 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3522M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	6
<b>Overall Length</b>	12.06 IN
<b>Power Factor</b>	57
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1175 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1256L</b>									
<b>CAT.NO.</b>	CNM3539								
<b>SPEC.</b>	35E012G338G2								
<b>HP</b>	.5								
<b>VOLTS</b>	230/460								
<b>AMP</b>	2/1								
<b>RPM</b>	1175								
<b>FRAME</b>	56C		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	M	<b>DES</b>	B	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	78.5	<b>PF</b>	57						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6205		<b>ODE</b>	6203					
<b>ENCL</b>	TENV	<b>SN</b>							
	SFA 2.2/1.1								

## AC Induction Motor Performance Data

Record # 87759

Preliminary Data Sheet

Winding: 35WGG338-R001		Type: 3522M	Enclosure: TENV	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	.5	Full Load Torque	2.23 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	2/1	Breakdown Torque	8.81 LB-FT	
R.P.M.	1175	Pull-up Torque	4.83 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	5.16 LB-FT
NEMA Design Code	B KVA Code	M	Starting Current	6.64 A
Service Factor (S.F.)	1.15	No-load Current	0.789 A	
NEMA Nom. Eff.	78.5 Power Factor	57	Line-line Res. @ 25°C	30 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	70°C	
S.F. Amps	2.2/1.1	Temp. Rise @ S.F. Load	79°C	
		Locked-rotor Power Factor	50.7	
		Rotor inertia	0.16 lb-ft <sup>2</sup>	

## Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	23	36	48	56	63	68	60
Efficiency	63.7	75.6	79.4	81.4	81.5	80.6	81.5
Speed	1194	1190	1185	1180	1174	1167	1176
Line amperes	0.802	0.855	0.929	1.02	1.14	1.29	1.09

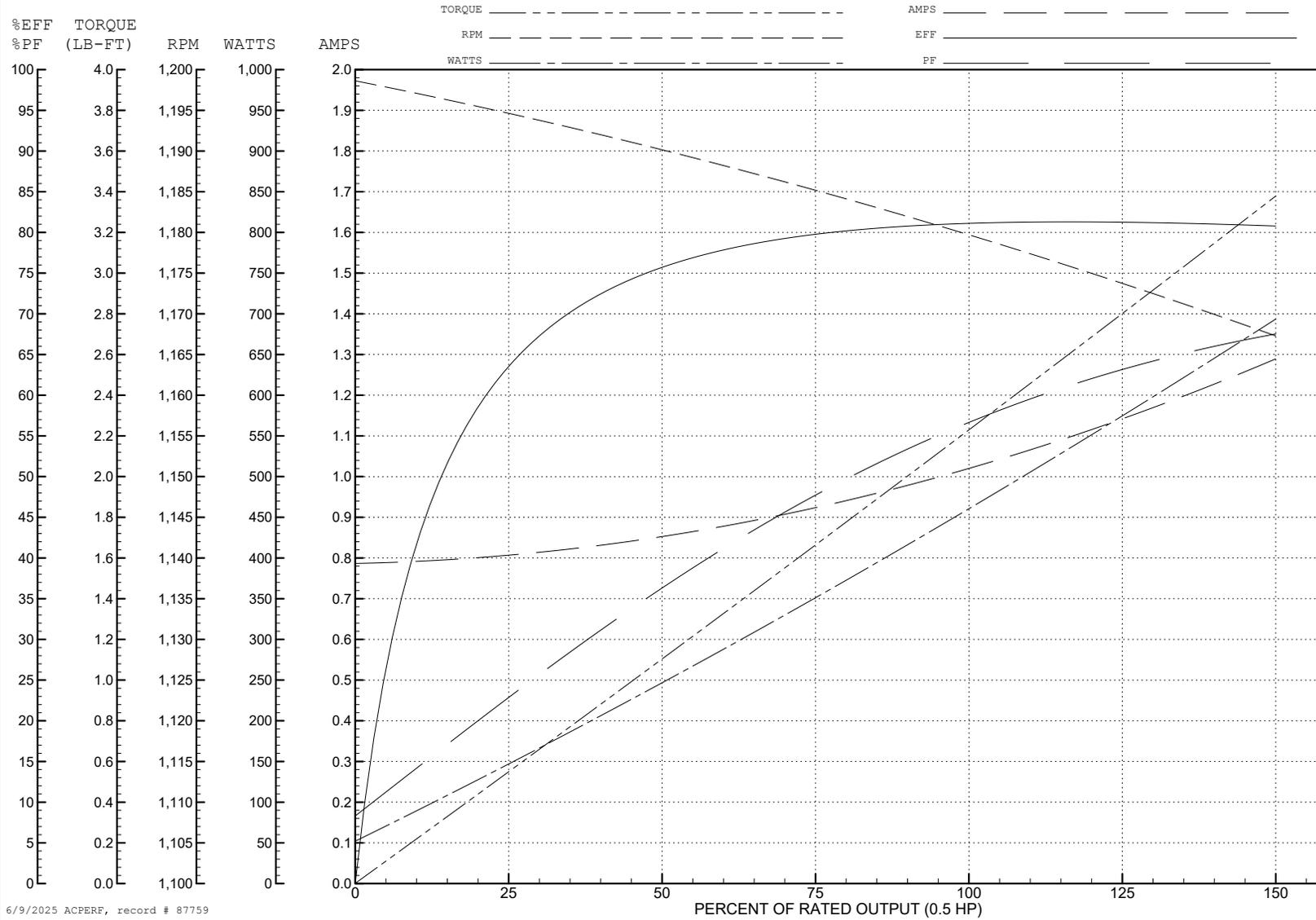
ABB Motors and Mechanical Inc.

WINDING # 35WGG338

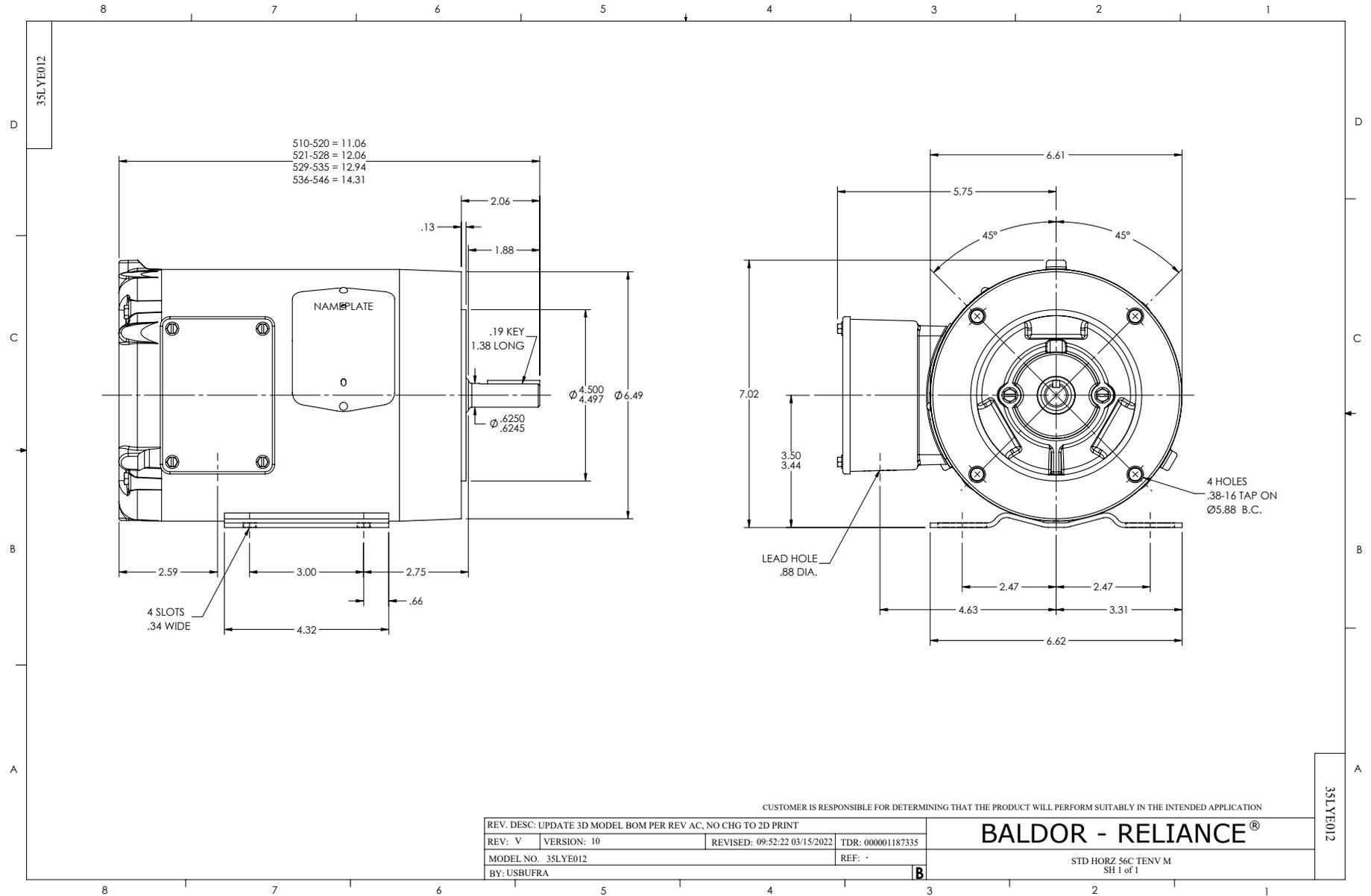
0.5 HP 3 PH 60 HZ 1175 RPM 460 V 3522M

Typical performance - not guaranteed values.

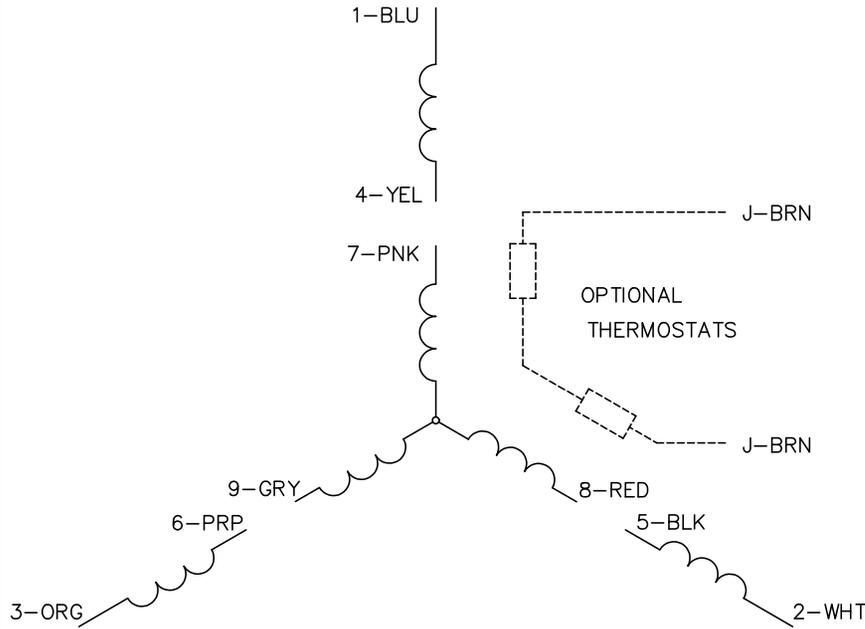
TORQUES (LB-FT): PO=8.81 PU=4.83 LR=5.16 LRA=6.64



6/9/2025 ACPERF, record # 87759



CD0005

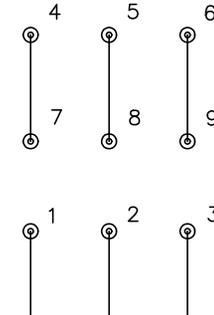


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS