ABB BALDOR RELIANCE

Customer information packet

CNM3539

.5HP, 1175RPM, 3PH, 60HZ, 56C, 3522M, TENV, F1
Class - None
Division - Not Applicable

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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	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.000 A @ 230.0 V
	2.000 A @ 208.0 V
	1.000 A @ 460.0 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
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35E012
Base	
Status	PRD/A
Elec. spec.	35WGG338
Layout	35LYE012
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.06 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1175 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.	CNM3539										
SPEC.	35E012G338G2										
HP	.5										
VOLTS	230/460										
AMP	2/1										
RPM	1175										
FRAME	56C		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	78.5	**PF**	57								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	TENV	**SN**									
	SFA 2.2/1.1										

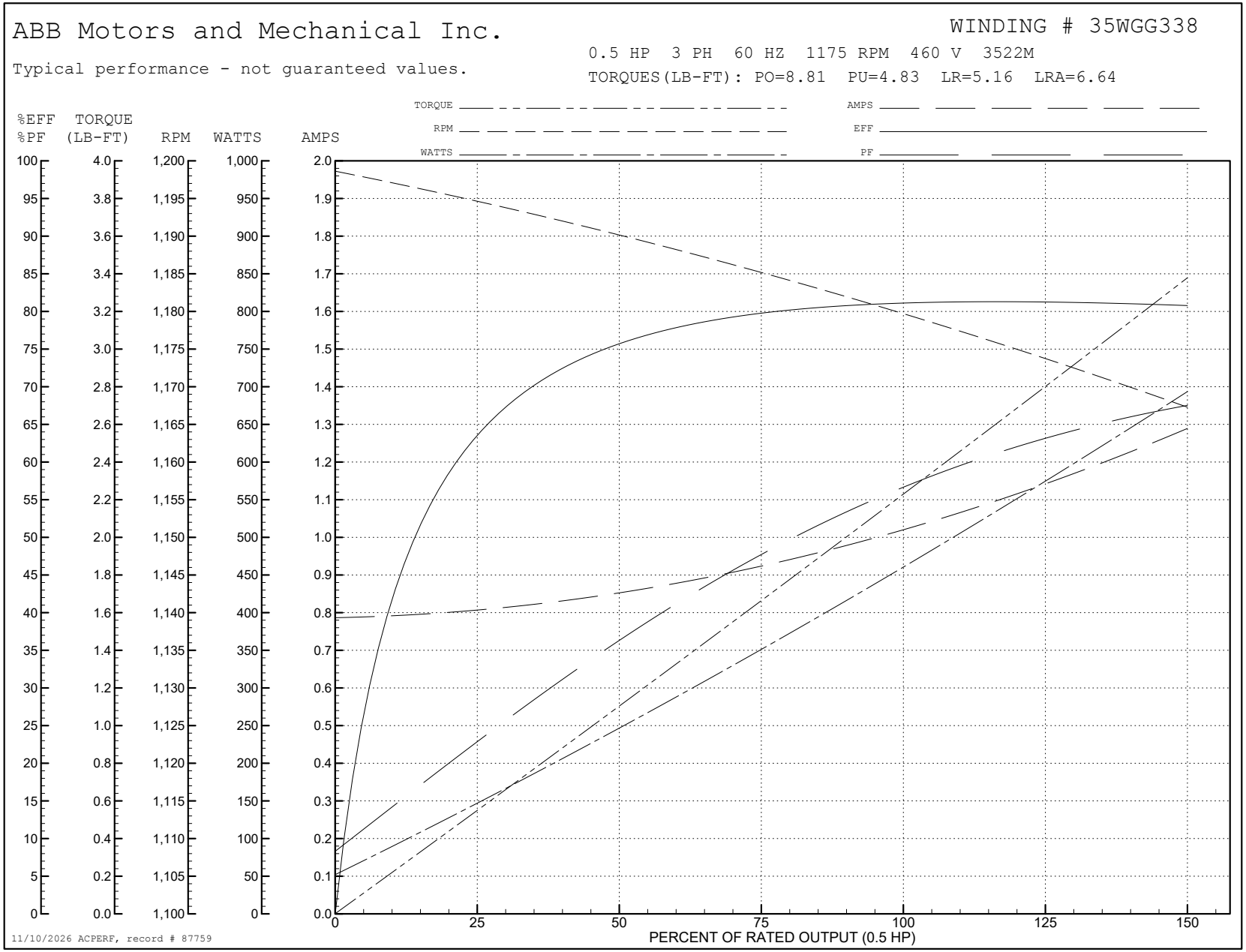
AC Induction Motor Performance Data
Record # 87759
Preliminary Data Sheet

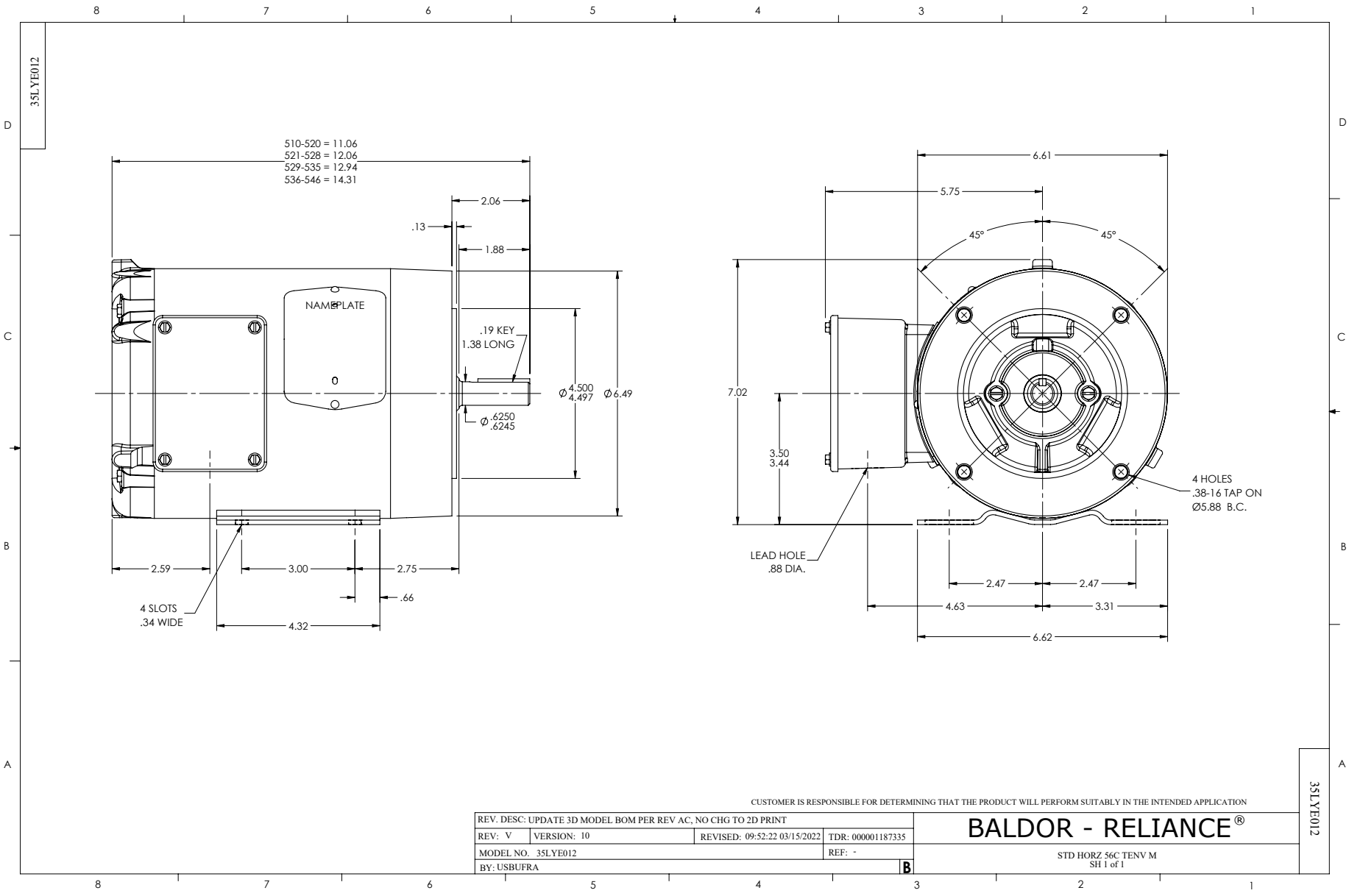
Winding: 35WGG338-R001	**Type:** 3522M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
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. @ 25ºC**	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-ft²

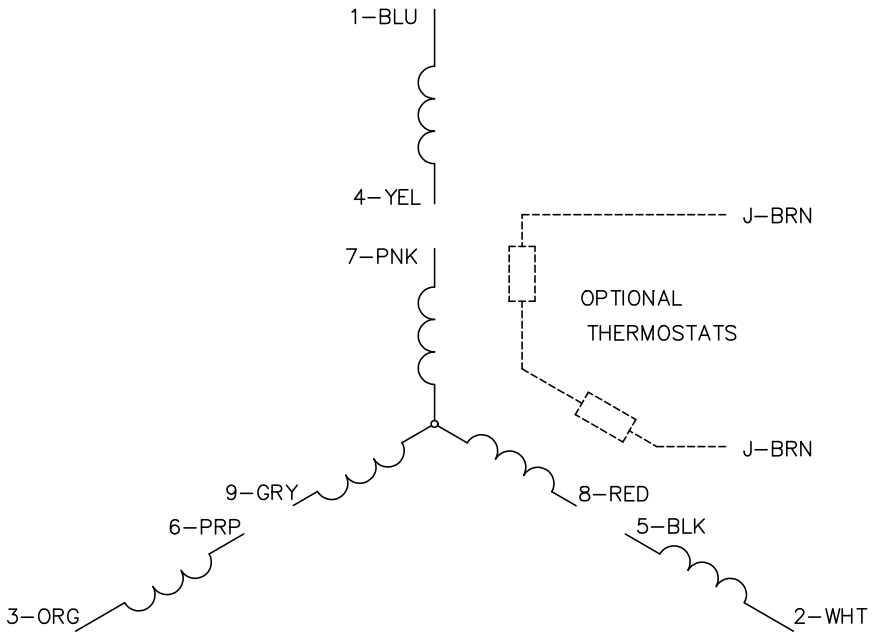
Load Characteristics 460 V, 60 Hz, 0.5 HP

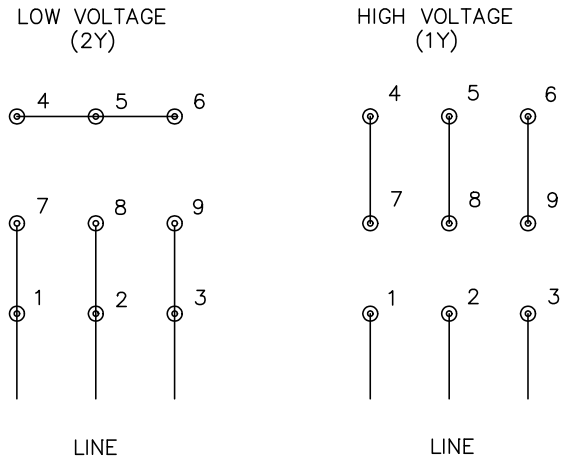
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	23	36	48	56	63	68	60
Efficiency	63.7	75.6	79.4	81.4	81.5	80.6	81.5
Speed	1194	1190	1185	1180	1174	1167	1176
Line amperes	0.802	0.855	0.929	1.02	1.14	1.29	1.09


ABB Motors and Mechanical Inc.
WINDING # 35WGG338
Typical performance - not guaranteed values.
0.5 HP 3 PH 60 HZ 1175 RPM 460 V 3522M
TORQUES(LB-FT): PO=8.81 PU=4.83 LR=5.16 LRA=6.64
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/10/2026 ACPERF, record # 87759


35LYE012
510-520 = 11.06
521-528 = 12.06
529-535 = 12.94
536-546 = 14.31
2.06
.13
1.88
NAMEPLATE
.19 KEY
1.38 LONG
Ø 4.500
4.497
Ø6.49
Ø .6250
.6245
2.59
3.00
2.75
.66
4 SLOTS
.34 WIDE
4.32
6.61
5.75
45°
45°
7.02
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.88 DIA.
2.47
2.47
4.63
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV AC, NO CHG TO 2D PRINT
REV: V
VERSION: 10
REVISED: 09:52:22 03/15/2022
TDR: 000001187335
MODEL NO. 35LYE012
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 56C TENV M
SH 1 of 1
35LYE012

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS