Customer information packet

ERM3112

.75HP, 1765RPM, 3PH, 60HZ, 56H, 3514M, OPEN, F1
Class - None
Division - Not Applicable

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11/14/2026 12:20:25 PM

Specifications

Enclosure	OPEN
Frame	56H
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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.400 A @ 208.0 V
	2.280 A @ 230.0 V
	1.140 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.1 a

Part Detail

Revision	H
Type	AC
Mech. spec.	35E411
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYE411
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.42 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP3155L											
CAT.NO.	ERM3112										
SPEC.	35E411G069G1										
HP	.75										
VOLTS	208-230/460										
AMP	2.42/1.21										
RPM	1765										
FRAME	56H		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	K	**DES**	B	**CL**	F				
F.L. AVG. EFF.	82.5	**PF**	74								
RATING	40C AMB-CONT										
CC											
DE	6203		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 2.86-2.68/1.34										

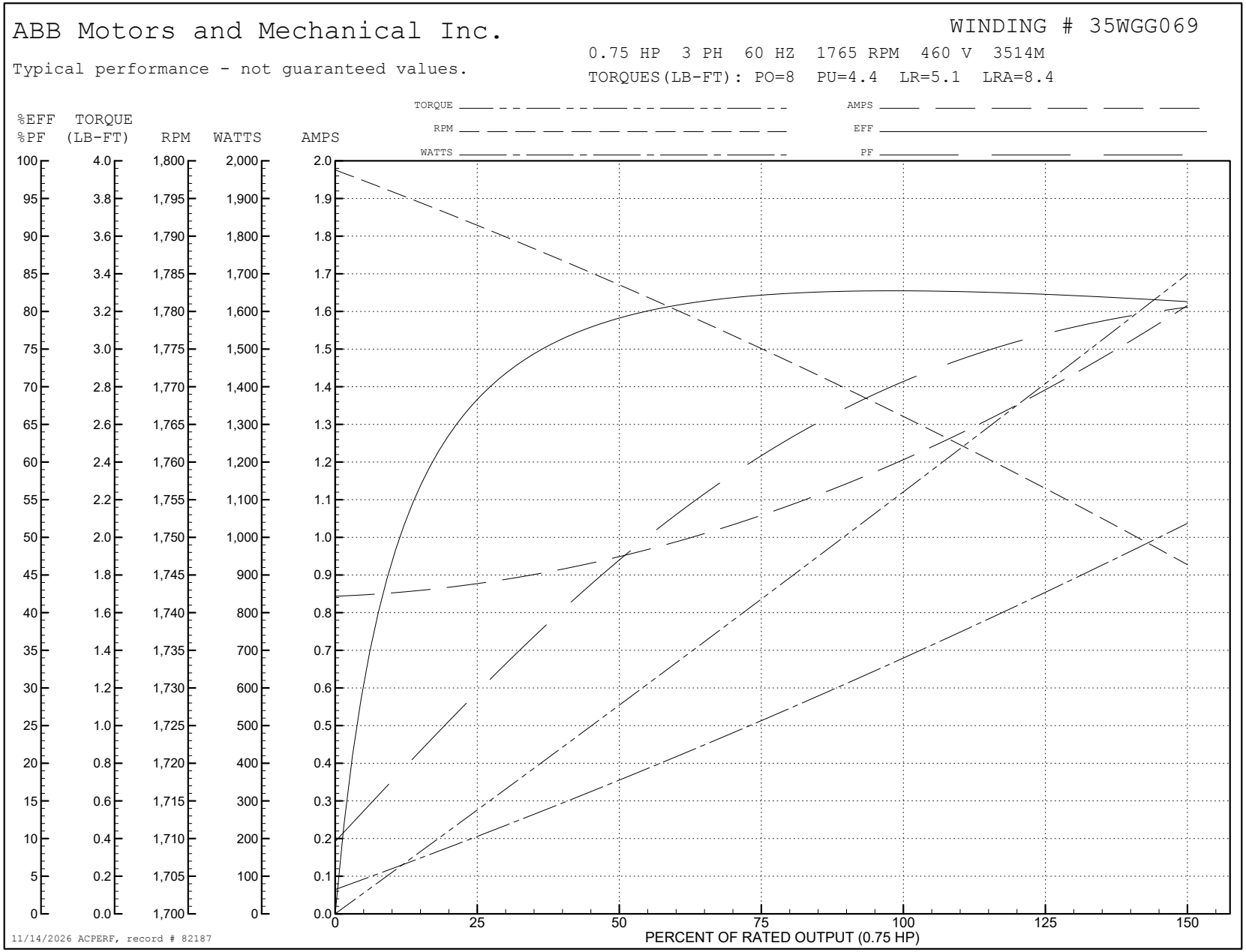
AC Induction Motor Performance Data
Record # 82187
Typical performance - not guaranteed values

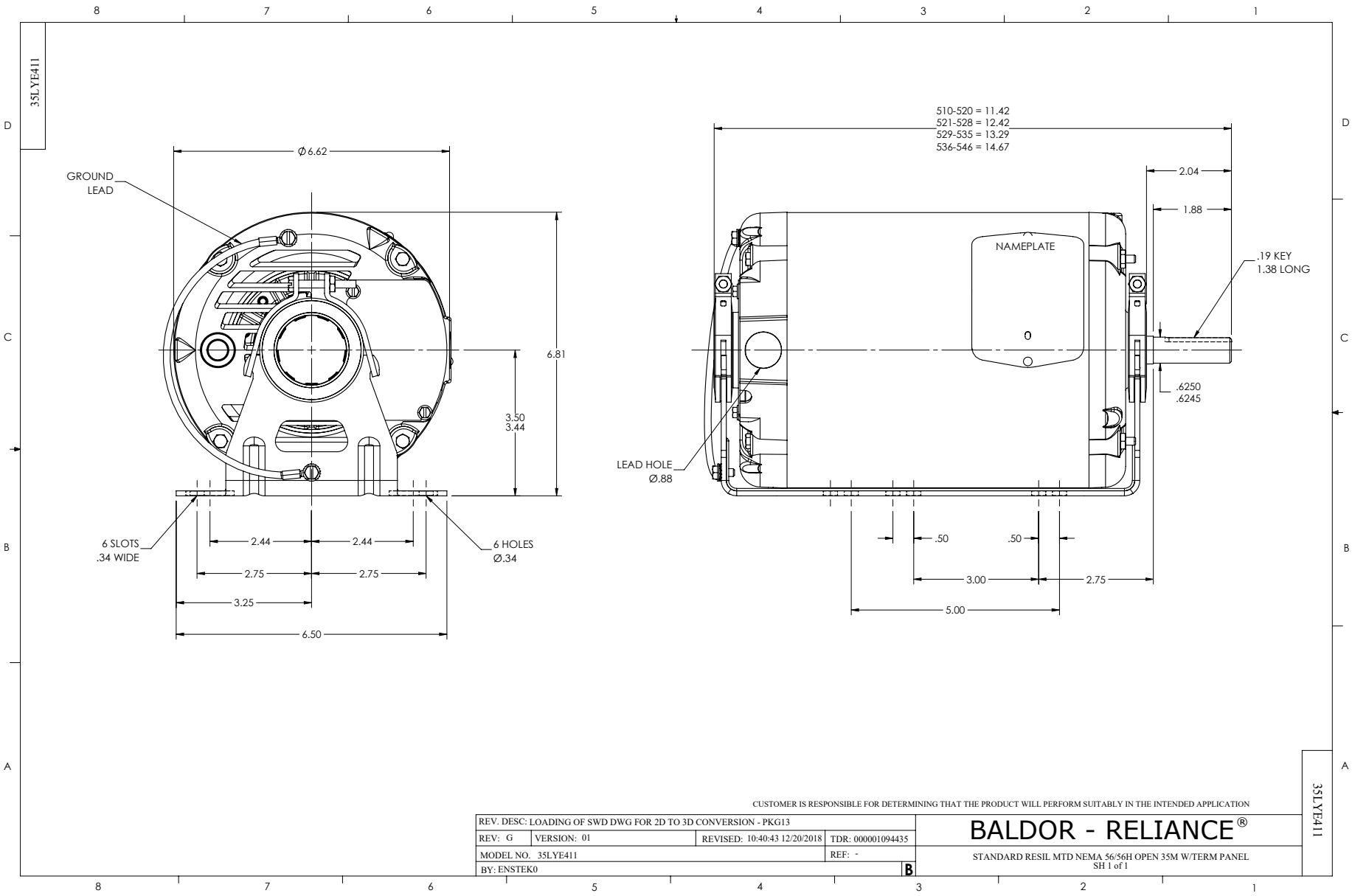
Winding: 35WGG069-R002	**Type:** 3514M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.24 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			2.42/1.21	**Breakdown Torque**	8 LB-FT
R.P.M.			1765	**Pull-up Torque**	4.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	8.4 A
Service Factor (S.F.)			1.25	**No-load Current**	0.85 A
NEMA Nom. Eff.	82.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	30.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	25°C
S.F. Amps			2.9-2.8/1.4	**Temp. Rise @ S.F. Load**	33°C
				Locked-rotor Power Factor	66.8
				Rotor inertia	0.101 lb-ft²

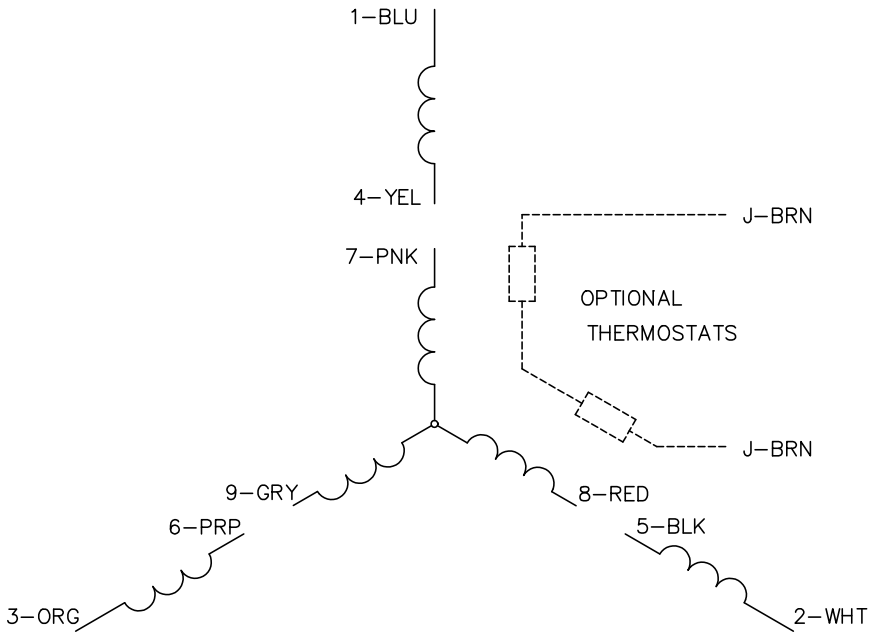
Load Characteristics 460 V, 60 Hz, 0.75 HP

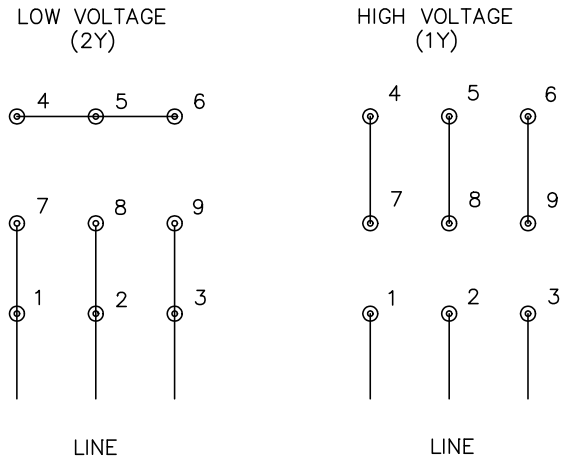
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	48	61	70	77	81	80
Efficiency	68.4	79	82.2	82.9	82.4	81.2	82.8
Speed	1791	1783	1775	1766	1757	1746	1752
Line amperes	0.87	0.95	1.06	1.21	1.4	1.61	1.34


ABB Motors and Mechanical Inc.
WINDING # 35WGG069
Typical performance - not guaranteed values.
0.75 HP 3 PH 60 HZ 1765 RPM 460 V 3514M
TORQUES(LB-FT): PO=8 PU=4.4 LR=5.1 LRA=8.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/14/2026 ACPERF, record # 82187


35LYE411
Ø 6.62
GROUND LEAD
6.81
3.50
3.44
6 SLOTS .34 WIDE
6 HOLES Ø.34
2.44
2.44
2.75
2.75
3.25
6.50
510-520 = 11.42
521-528 = 12.42
529-535 = 13.29
536-546 = 14.67
2.04
1.88
NAMEPLATE
.19 KEY
1.38 LONG
.6250
.6245
LEAD HOLE Ø.88
.50
.50
3.00
2.75
5.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG13
REV: G
VERSION: 01
REVISED: 10:40:43 12/20/2018
TDR: 000001094435
MODEL NO. 35LYE411
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
STANDARD RESIL MTD NEMA 56/56H OPEN 35M W/TERM PANEL
SH 1 of 1
35LYE411

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