

**BALDOR • RELIANCE**

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# Customer information packet

## ERM3112

.75HP, 1765RPM, 3PH, 60HZ, 56H, 3514M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPEN
Frame	56H
Frame Material	Steel
Frequency	60.00 Hz
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
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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	F
Type	AC
Mech. spec.	35E411
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYE411
Eff. date	05-16-2024
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**

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

**AC Induction Motor Performance Data**

Record # 82187

Typical performance - not guaranteed values

<b>Winding: 35WGG069-R002</b>		<b>Type: 3514M</b>		<b>Enclosure: OPEN</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	.75	<b>Full Load Torque</b>	2.24 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	2.42/1.21	<b>Breakdown Torque</b>	8 LB-FT		
<b>R.P.M.</b>	1765	<b>Pull-up Torque</b>	4.4 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	5.1 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	K	<b>Starting Current</b>	8.4 A	
<b>Service Factor (S.F.)</b>	1.25	<b>No-load Current</b>	0.85 A		
<b>NEMA Nom. Eff.</b>	82.5 <b>Power Factor</b>	74	<b>Line-line Res. @ 25°C</b>	30.3 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	25°C		
<b>S.F. Amps</b>	2.9-2.8/1.4	<b>Temp. Rise @ S.F. Load</b>	33°C		
		<b>Locked-rotor Power Factor</b>	66.8		
		<b>Rotor inertia</b>	0.101 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

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

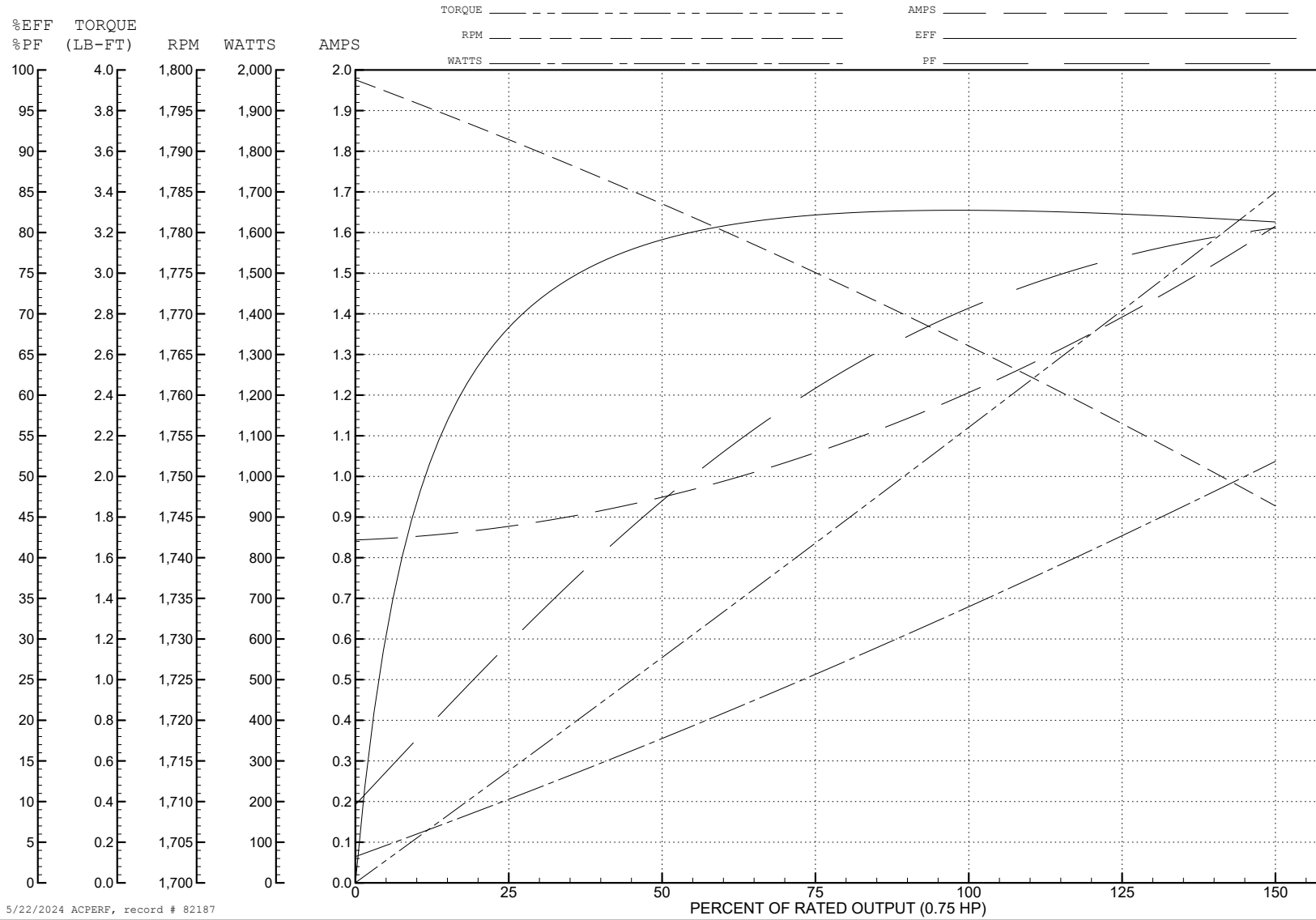
ABB Motors and Mechanical Inc.

WINDING # 35WGG069

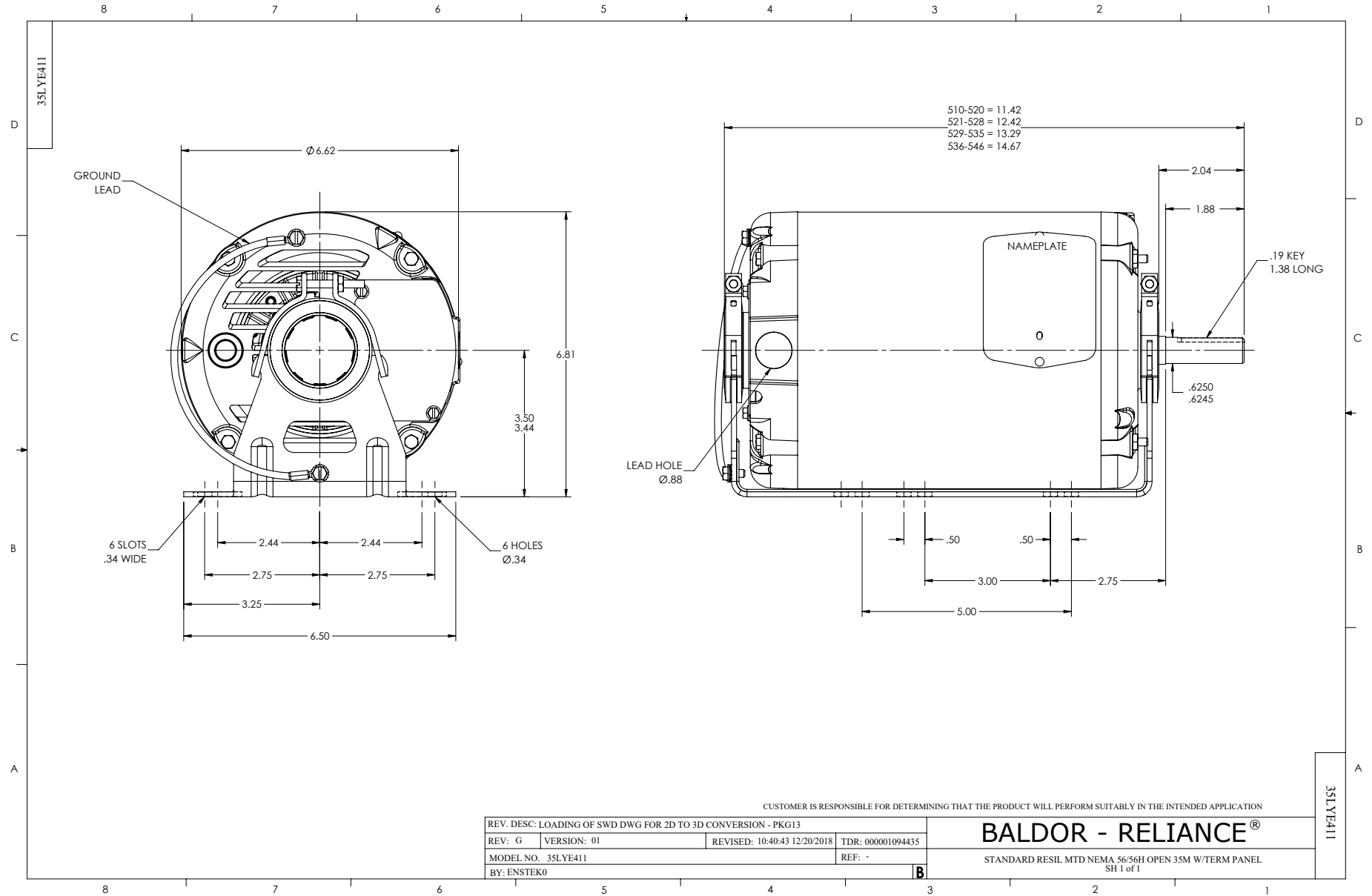
0.75 HP 3 PH 60 HZ 1765 RPM 460 V 3514M

Typical performance - not guaranteed values.

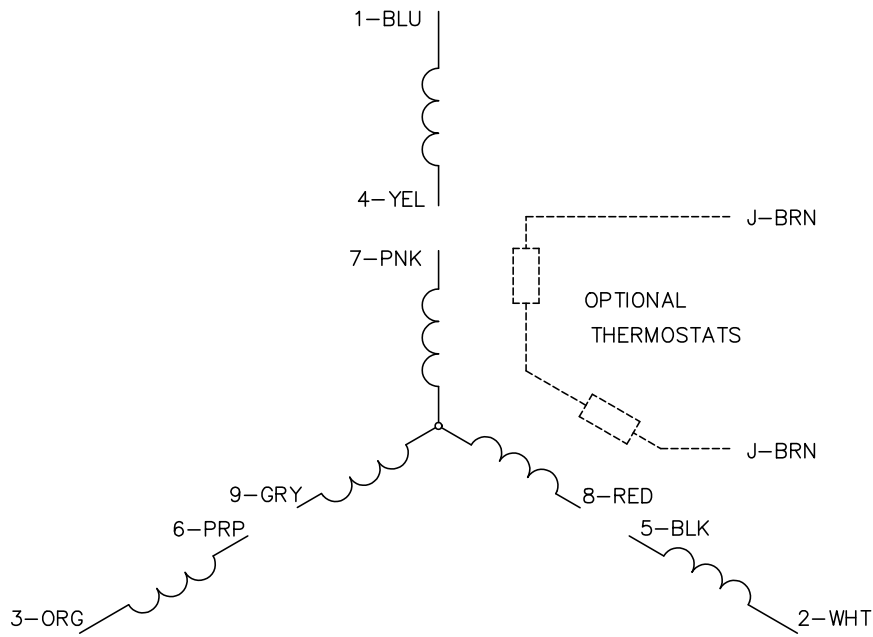
TORQUES (LB-FT) : PO=8 PU=4.4 LR=5.1 LRA=8.4



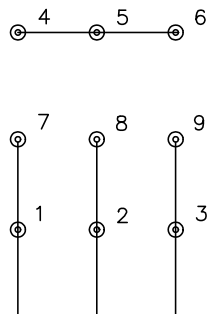
5/22/2024 ACPERF, record # 82187



CD0005

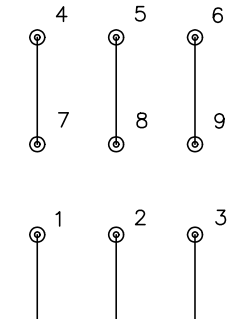


LOW VOLTAGE  
(2Y)



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