

**BALDOR • RELIANCE**

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# Customer information packet

## CEWDBM3538

.5HP, 1775RPM, 3PH, 60HZ, 56C, 3514M, TENV, F1

Class - None

Division - Not Applicable

## 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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	C UR US
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	2.020 A @ 230.0 V 1.900 A @ 208.0 V 1.010 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
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	A
Type	AC
Mech. spec.	35L652
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYL652
Eff. date	07-22-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-15-2023

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	N
<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>	3514M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	15.31 IN
<b>Power Factor</b>	63
<b>Product Family</b>	Wash Down
<b>Pulley End Bearing Type</b>	Sealed Bearing
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.25
<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>	Shaft Slinger
<b>Speed</b>	1775 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>NP1496L</b>									
<b>CAT.NO.</b>	CEWDBM3538								
<b>SPEC.</b>	35L652G069G2								
<b>HP</b>	.5								
<b>VOLTS</b>	208-230/460								
<b>AMP</b>	1.9-2.02/1.01								
<b>RPM</b>	1775								
<b>FRAME</b>	56C		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.25	<b>CODE</b>	N	<b>DES</b>	B	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	81.5	<b>PF</b>	63						
<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 2.16-2.2/1.1								

## Parts list

Part number	Description	Quantity
SA418463	SA 35L652G069G2	1.000 ea
RA410366	RA 35L652G069G2	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3003A02G	EPOXY CONDUIT BOX, MACH (GRAY)	1.000 ea
35GS1022A03	GASKET BOX .125 THK WHITE NEOPRENE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35EP3900T32MW	WHITE EPOXY EP MACH COMPL	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307E00W	MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C	1.000 ea
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 ea
HW4600B49	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
HW2501D08	KEY, 3/16 SQ X .875 AUTO	1.000 ea
35CB4516	CONDUIT BOX LID, PRIMER	1.000 ea
36GS3008SP	WHITE NEOPRENE KO BOX LID GASKET	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
HW4600B46	V-RING SLINGER 0.875 X 1.420 X .24 VITON	1.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
HA5027A01	HA4066A01 T-DRAIN X2 BAGGED	1.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025Z02	ACTIVATOR WILKOFASST 060.02HF	0.010 ga
MG1025W01	WILKOFASST, 781.01, SIGNAL WHITE #9003	0.017 ga

HA3100S08	THRUBOLT 7.375LG SS	4.000 ea
76BK1400BQF	1-056-014-00-BQF 3# 230/460V. NEMA 4X EN	1.000 ea
84XN3816J28	HEX SOC HD, 3/8-16 X 1.75 LONG	2.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
LB1404	BRAKE CONNECTION LABEL	1.000 ea
NP1496L	SS WD UL CC	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
PE-0000002	ZRTG PE ASSEMBLY	1.000 ea

**AC Induction Motor Performance Data**

Record # 101696

Typical performance - not guaranteed values

<b>Winding: 35WGG069-R088</b>		<b>Type: 3514M</b>		<b>Enclosure: TENV</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	.5	<b>Full Load Torque</b>	1.48 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	1.9-2.02/1.01	<b>Breakdown Torque</b>	8 LB-FT		
<b>R.P.M.</b>	1775	<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>	N	<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>	81.5	<b>Power Factor</b>	63		
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	19°C	
<b>S.F. Amps</b>	2.16-2.2/1.1		<b>Temp. Rise @ S.F. Load</b>	21°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, 0.5 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>	24	37	48	58	65	71	65
<b>Efficiency</b>	58.9	72.5	78.4	80.5	81.6	81.5	81.6
<b>Speed</b>	1793	1788	1782	1776	1771	1763	1771
<b>Line amperes</b>	0.85	0.89	0.94	1.01	1.11	1.21	1.11

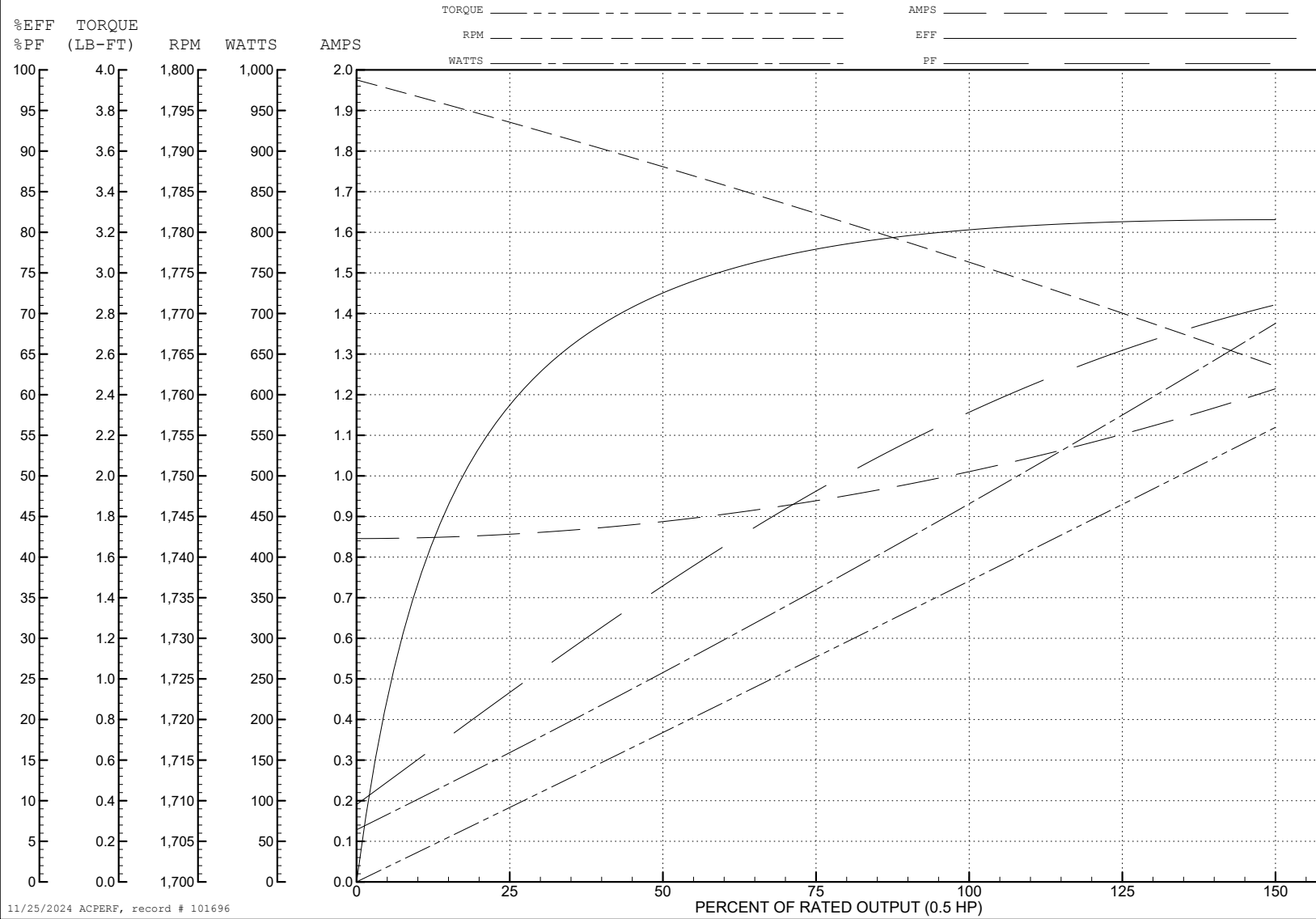
ABB Motors and Mechanical Inc.

WINDING # 35WGG069

0.5 HP 3 PH 60 HZ 1775 RPM 460 V 3514M

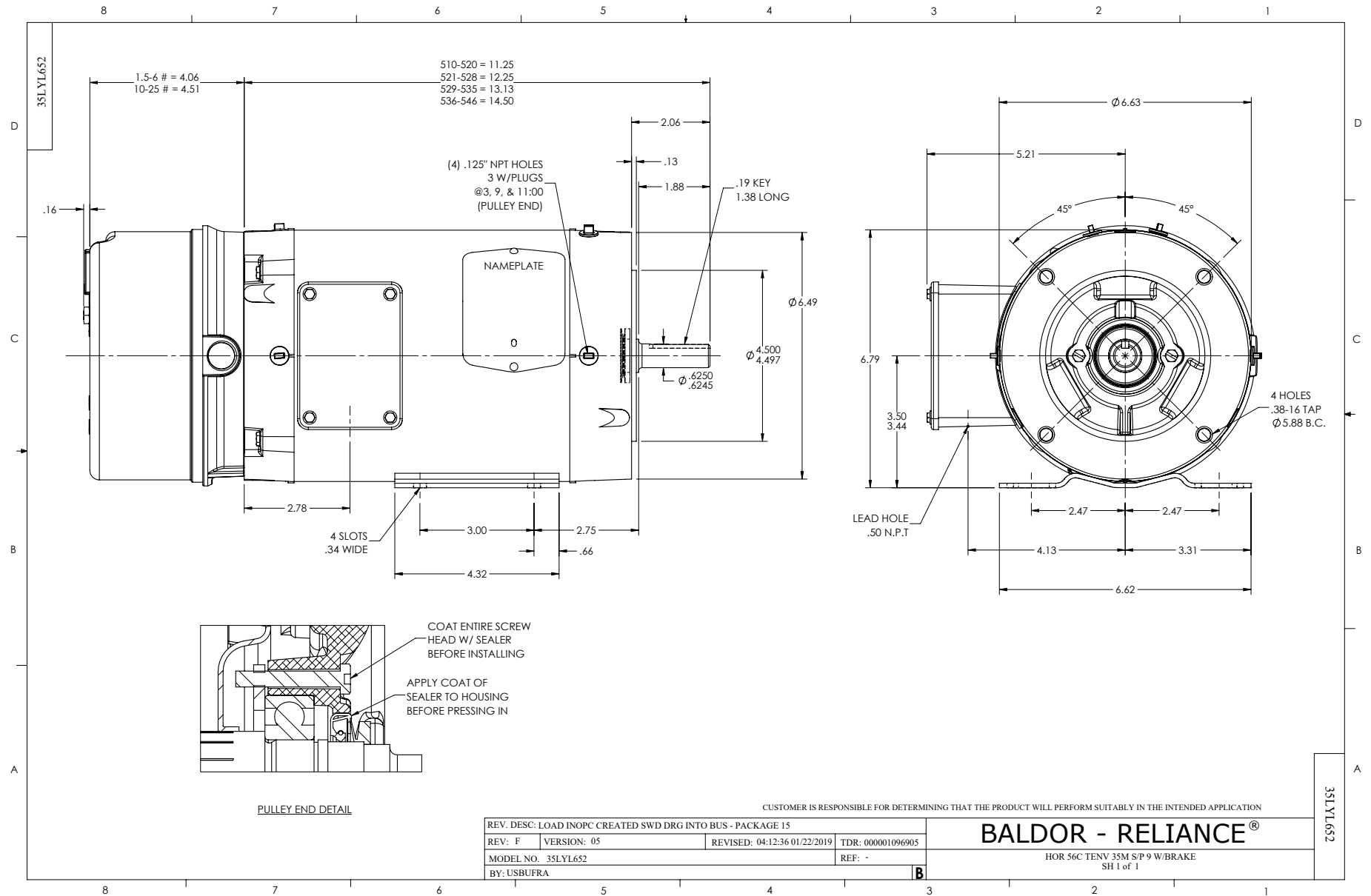
Typical performance - not guaranteed values.

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



11/25/2024 ACPERF, record # 101696





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