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# Customer information packet

## IDVSWDM3538

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

Class - None

Division - Not Applicable

## Specifications

Enclosure	TENV
Frame	56C
Frame Material	Stainless 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	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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.020 A @ 230.0 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
Insulation Class	H

## Part detail

Revision	-
Type	AC
Mech. spec.	35S639
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYS639
Eff. date	10-05-2023
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-15-2023

<b>Inverter Code</b>	<b>Inverter Duty</b>
<b>KVA Code</b>	N
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	6000 rpm
<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>	11.06 IN
<b>Power Factor</b>	63
<b>Product Family</b>	Wash Down Paint Free
<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>	1.00
<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>	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>	Normally Closed Thermostat
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1608L</b>				
<b>CAT NO</b>	IDVSWDM3538			
<b>SPEC.</b>	35S639G069G2			
<b>FRAME</b>	56C	<b>HP</b>	.5 TE	
<b>VOLTS</b>	230/460			
<b>MAG CUR</b>	1.7/.85	<b>FLA</b>	2.02/1.01	
<b>RPM</b>	1775	<b>RPM MAX</b>	6000	
<b>HZ</b>	60	<b>PH</b>	3	<b>CLASS</b> H
<b>SER.F.</b>	1.00	<b>DES</b>	B	<b>SL HZ</b> 0.5
<b>NEMA-NOM-EFF</b>	81.5	<b>WK2</b>	0.101	
<b>BLWR V</b>	<b>PH</b>	<b>HZ</b>	<b>A</b>	
<b>RATING</b>	40C AMB-CONT			
<b>DE BRG</b>	6205	<b>ODE BRG</b>	6203	
<b>CC</b>	<b>SN</b>			

**AC Induction Motor Performance Data**

Record # 101037

Typical performance - not guaranteed values

<b>Winding:</b> 35WGG069-R080		<b>Type:</b> 3514M		<b>Enclosure:</b> OPEN	
<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>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	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	<b>No-load Current</b>	0.85 A	
<b>NEMA Nom. Eff.</b>	81.5 <b>Power Factor</b>	63	<b>Line-line Res. @ 25°C</b>	30.3 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	19°C	
<b>S.F. Amps</b>			<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>Power Factor</b>	24	37	48	58	65	71
<b>Efficiency</b>	58.9	72.5	78.4	80.5	81.6	81.5
<b>Speed</b>	1793	1788	1782	1776	1771	1763
<b>Line amperes</b>	0.85	0.89	0.94	1.01	1.11	1.21

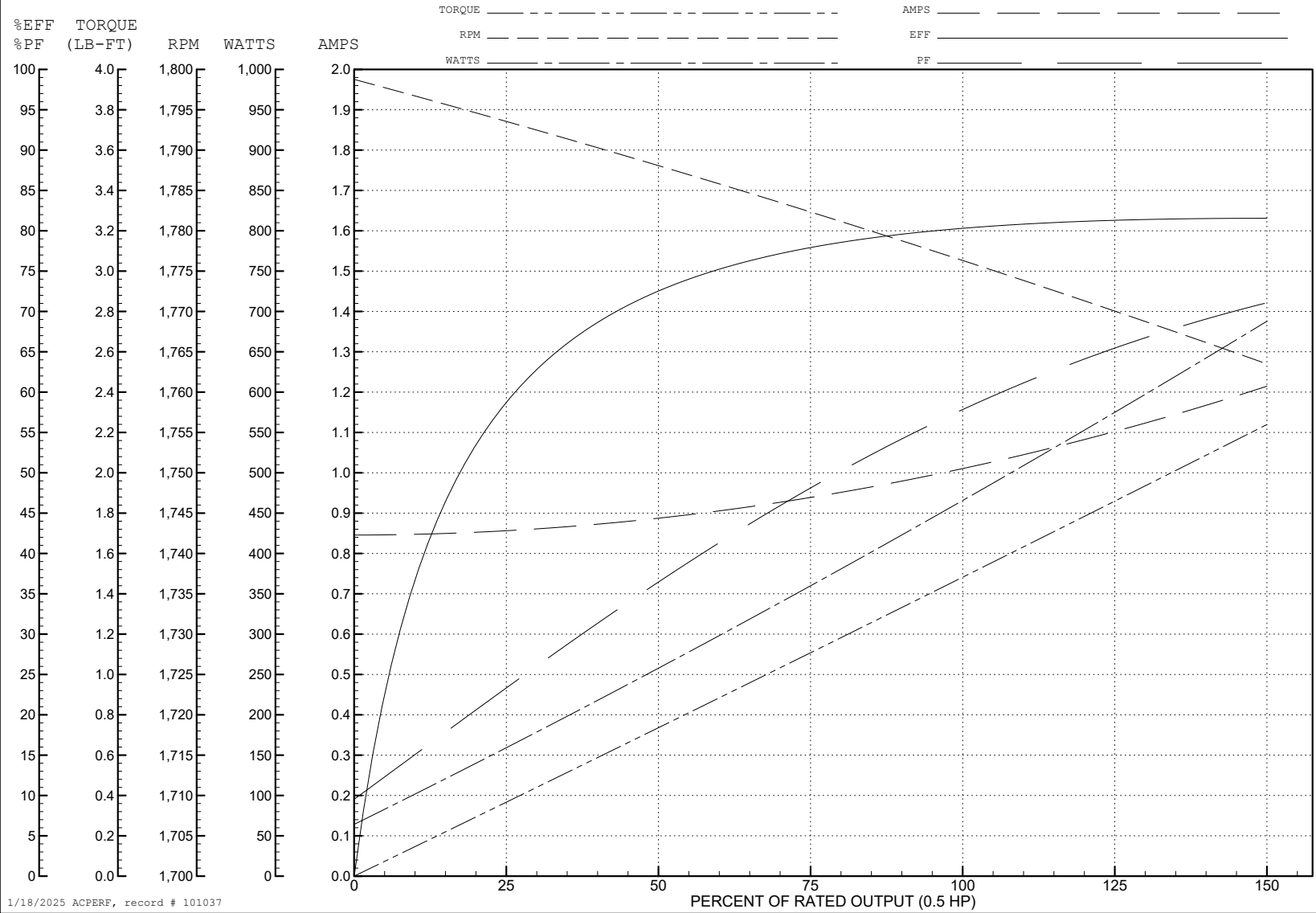
ABB Motors and Mechanical Inc.

WINDING # 35WGG069

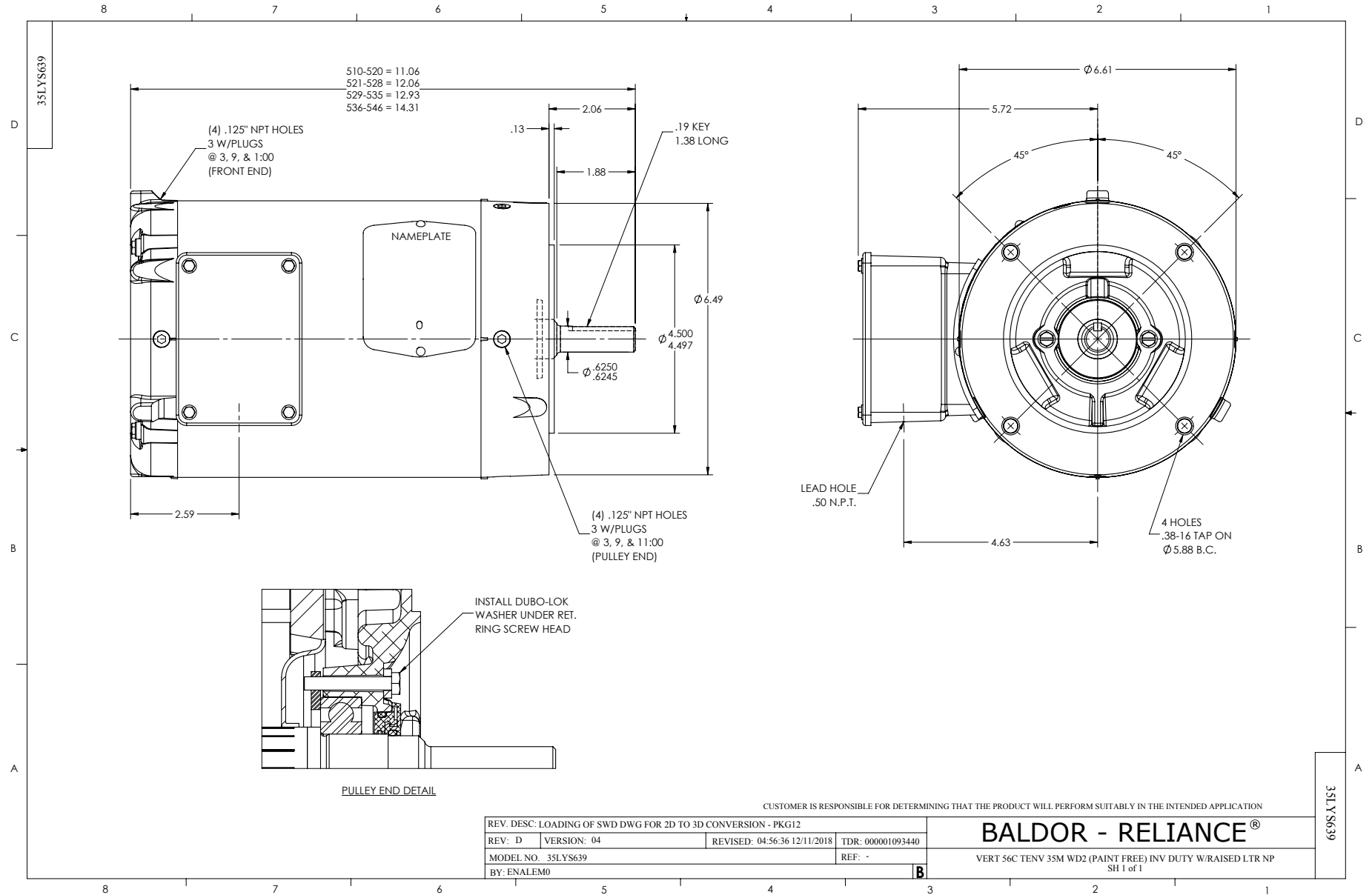
0.5 HP 3 PH 60 HZ 1775 RPM 460 V 3514M

Typical performance - not guaranteed values.

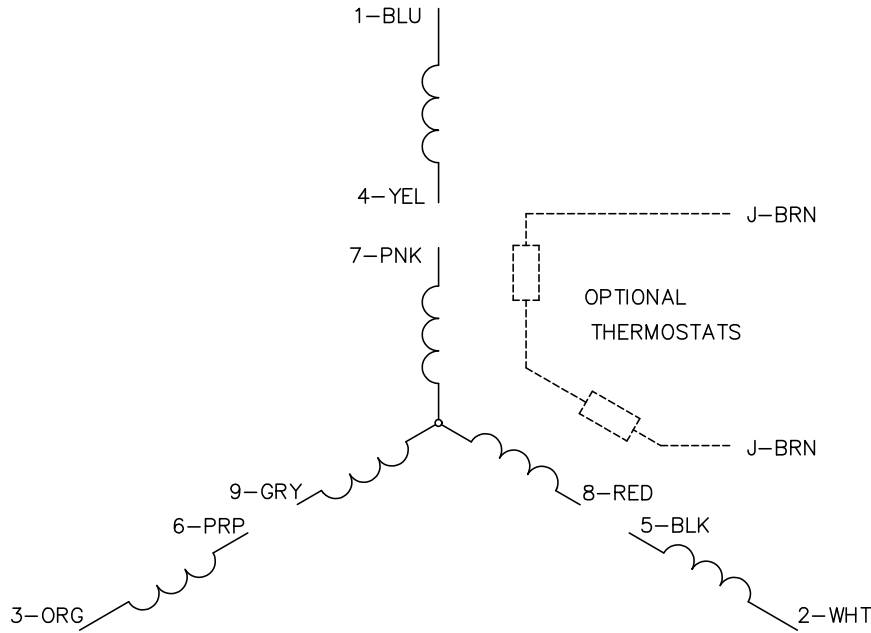
TORQUES (LB-FT) : PO=8 PU=4.4 LR=5.1 LRA=8.4



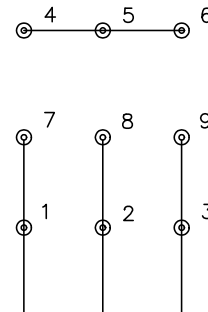
1/18/2025 ACPERF, record # 101037



CD0005

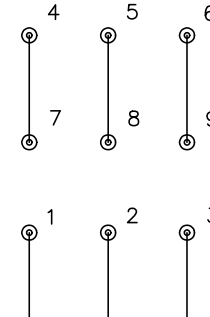


LOW VOLTAGE  
(2Y)



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