ABB BALDOR RELIANCE

Customer information packet

IDCSWDM3542

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

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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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	2.420 A @ 230.0 V
	2.420 A @ 208.0 V
	1.210 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

Part Detail

Revision	C
Type	AC
Mech. spec.	35S638
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYS638
Eff. date	06-28-2023
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

High Voltage Full Load Amps	1.2 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
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	11.06 IN
Power Factor	74
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1608L							
CAT NO	IDCSWDM3542						
SPEC.	35S638G069G1						
FRAME	56C	**HP**	.75 TE				
VOLTS	208-230/460						
MAG CUR	1.28-1.47/.73			**FLA**	2.36-2.28/1.14		
RPM	1765		**RPM MAX**		6000		
HZ	60	**PH**	3	**CLASS**	H		
SER.F.	1.00	**DES**	B		**SL HZ**	1.2	
NEMA-NOM-EFF	82.5	**WK2**	0.101				
BLWR V		**PH**		**HZ**		**A**	
RATING	40C AMB-CONT						
DE BRG	6205		**ODE BRG**		6203		
CC		**SN**					

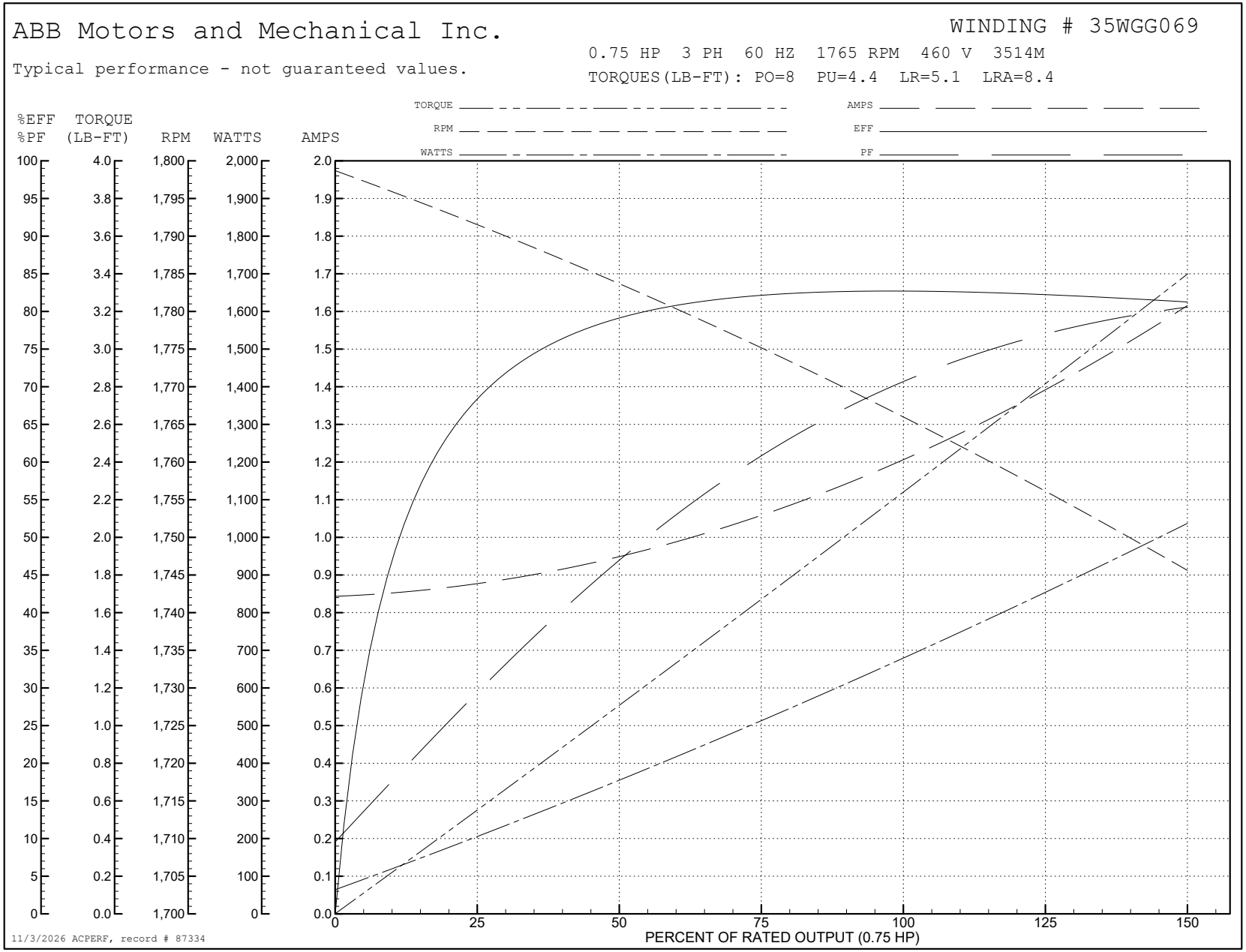
AC Induction Motor Performance Data
Record # 87334
Typical performance - not guaranteed values

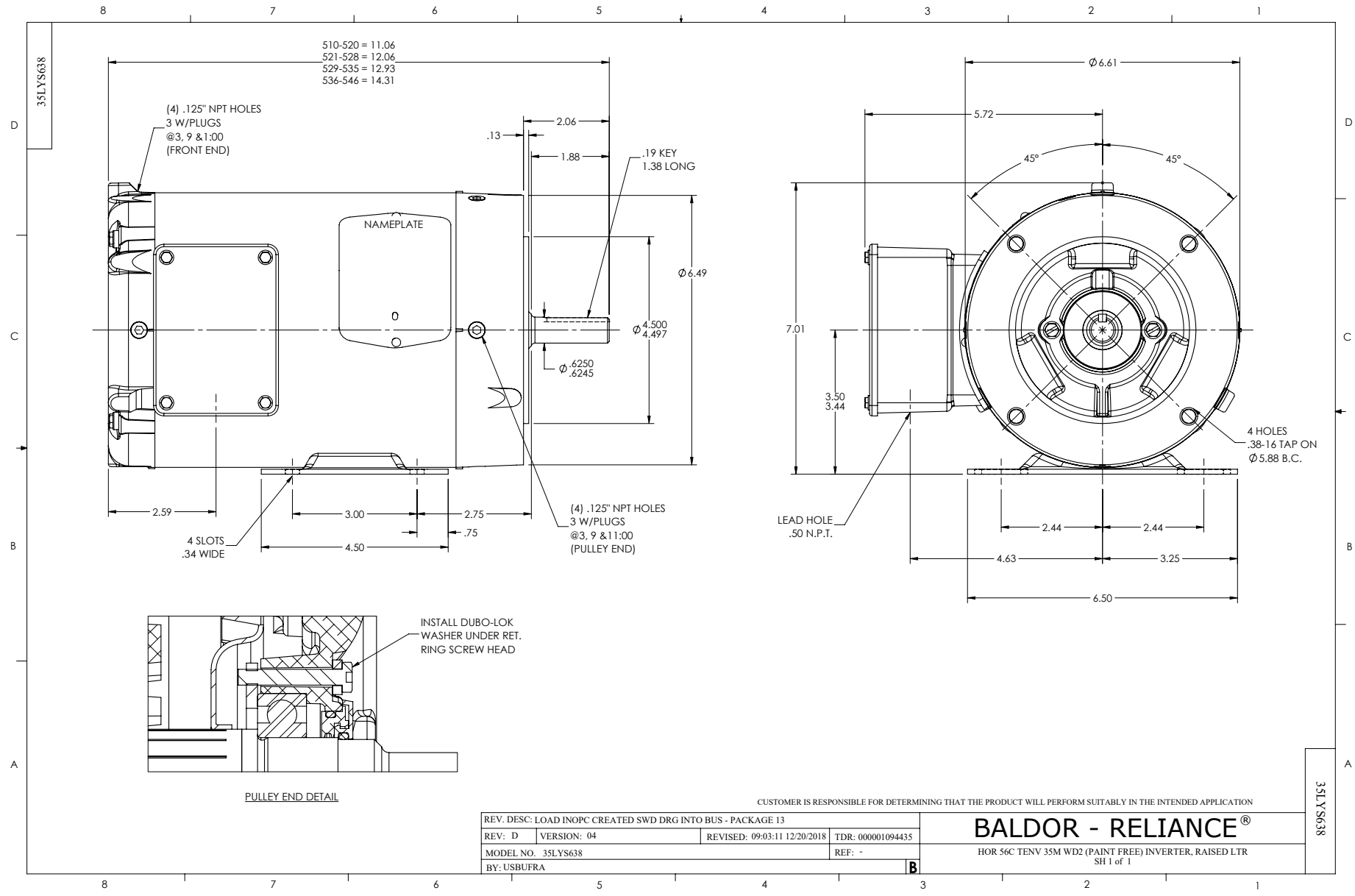
Winding: 35WGG069-R017	**Type:** 3514M	**Enclosure:** TENV

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	**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**	75°C
				Locked-rotor Power Factor	66.8
				Rotor inertia	0.101 lb-ft²

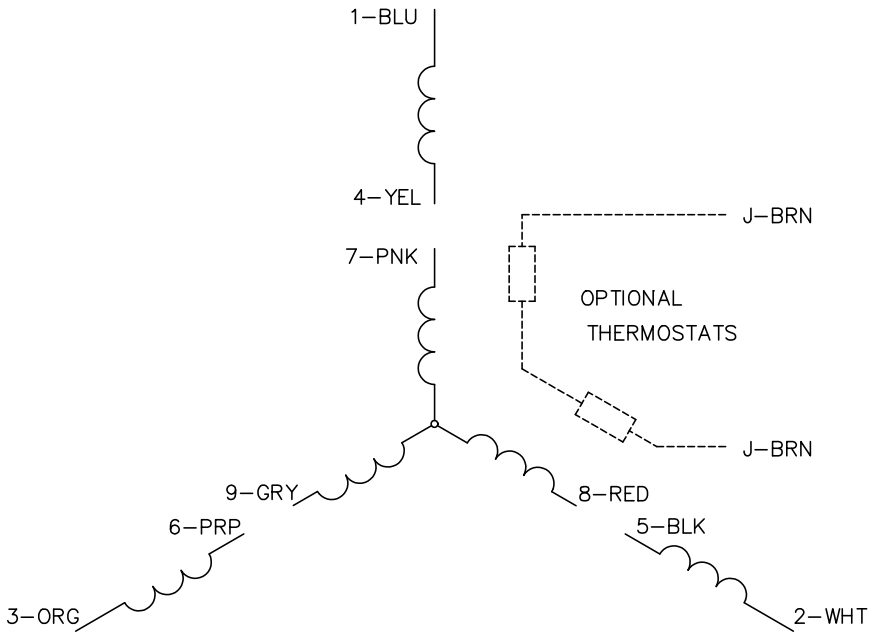
Load Characteristics 460 V, 60 Hz, 0.75 HP

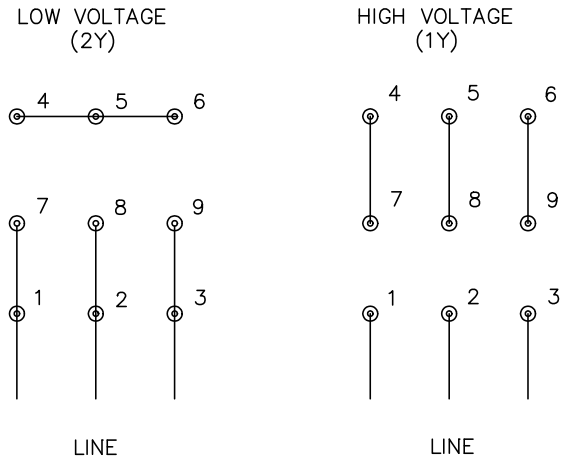
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	30	48	61	70	77	81
Efficiency	68.4	79.2	82.1	82.9	82.4	81.1
Speed	1791	1783	1775	1766	1757	1745
Line amperes	0.87	0.95	1.06	1.21	1.4	1.61


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)
11/3/2026 ACPERF, record # 87334


35LYS638
510-520 = 11.06
521-528 = 12.06
529-535 = 12.93
536-546 = 14.31
(4) .125" NPT HOLES
3 W/PLUGS
@3, 9 &1:00
(FRONT END)
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
2.59
3.00
2.75
.75
4.50
4 SLOTS
.34 WIDE
(4) .125" NPT HOLES
3 W/PLUGS
@3, 9 &11:00
(PULLEY END)
Ø6.61
5.72
45°
45°
7.01
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.44
2.44
4.63
3.25
6.50
INSTALL DUBO-LOK
WASHER UNDER RET.
RING SCREW HEAD
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 13
REV: D
VERSION: 04
REVISED: 09:03:11 12/20/2018
TDR: 000001094435
MODEL NO. 35LYS638
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 56C TENV 35M WD2 (PAINT FREE) INVERTER, RAISED LTR
SH 1 of 1
35LYS638

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