ABB BALDOR RELIANCE

Customer information packet

ZDVSNM3538

.5HP, 1775RPM, 3PH, 60HZ, 56C, 3514M, TENV, F1
Class - None
Division - Not Applicable

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11/16/2026 1:34:22 AM

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	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	2.020 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	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	H

Part Detail

Revision	B
Type	AC
Mech. spec.	35R457
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYR457
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-15-2023

Inverter Code	Inverter Duty
KVA Code	N
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	13.84 IN
Power Factor	63
Product Family	General Purpose
Pulley End Bearing Type	Ball
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: Connected Standard
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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

NP3304L							
CAT NO	ZDVSNM3538						
SPEC.	35R457G069G2						
FRAME	56C		**HP**	.5 TE			
VOLTS	230/460						
MAG CUR	1.7/.85			**FLA**	2.02/1.01		
RPM	1775		**RPM MAX**	6000			
HZ	60	**PH**	3	**CLASS**	H		
SER.F.	1.00			**SL HZ**	0.5		
NEMA-NOM-EFF	81.5		**WK2**	0.101			
RATING	40C AMB-CONT						
DE BRG	6205		**ODE BRG**	6203			
CC		**SER.NO**					
	1000:1 CT/VT						

AC Induction Motor Performance Data
Record # 101037
Typical performance - not guaranteed values

Winding: 35WGG069-R080	**Type:** 3514M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.48 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			2.02/1.01	**Breakdown Torque**	8 LB-FT
R.P.M.			1775	**Pull-up Torque**	4.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.1 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	8.4 A
Service Factor (S.F.)			1	**No-load Current**	0.85 A
NEMA Nom. Eff.	81.5	**Power Factor**	63	**Line-line Res. @ 25ºC**	30.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	19°C
S.F. Amps				**Temp. Rise @ S.F. Load**	21°C
				Locked-rotor Power Factor	66.8
				Rotor inertia	0.101 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	24	37	48	58	65	71
Efficiency	58.9	72.5	78.4	80.5	81.6	81.5
Speed	1793	1788	1782	1776	1771	1763
Line amperes	0.85	0.89	0.94	1.01	1.11	1.21

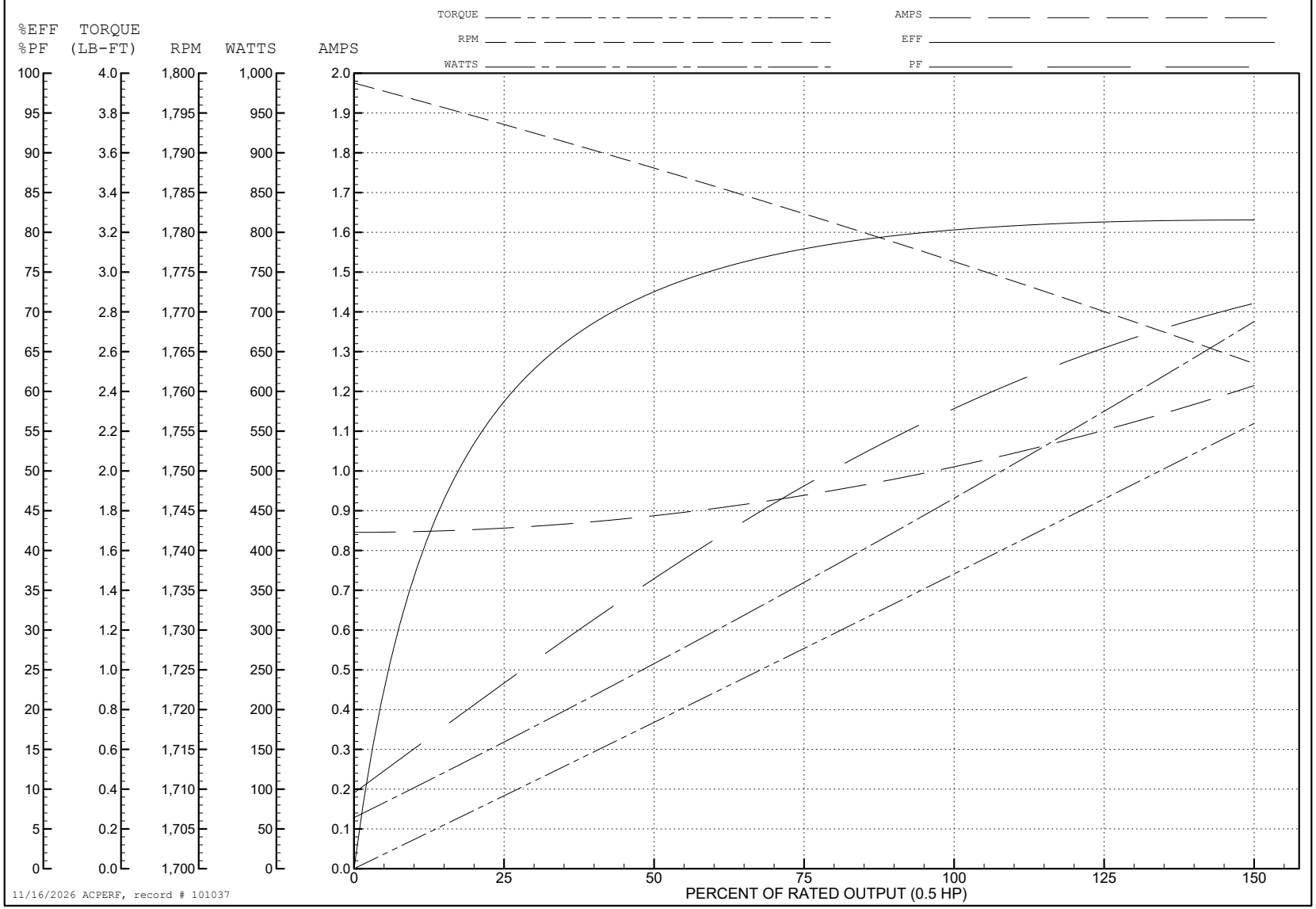
ABB Motors and Mechanical Inc.

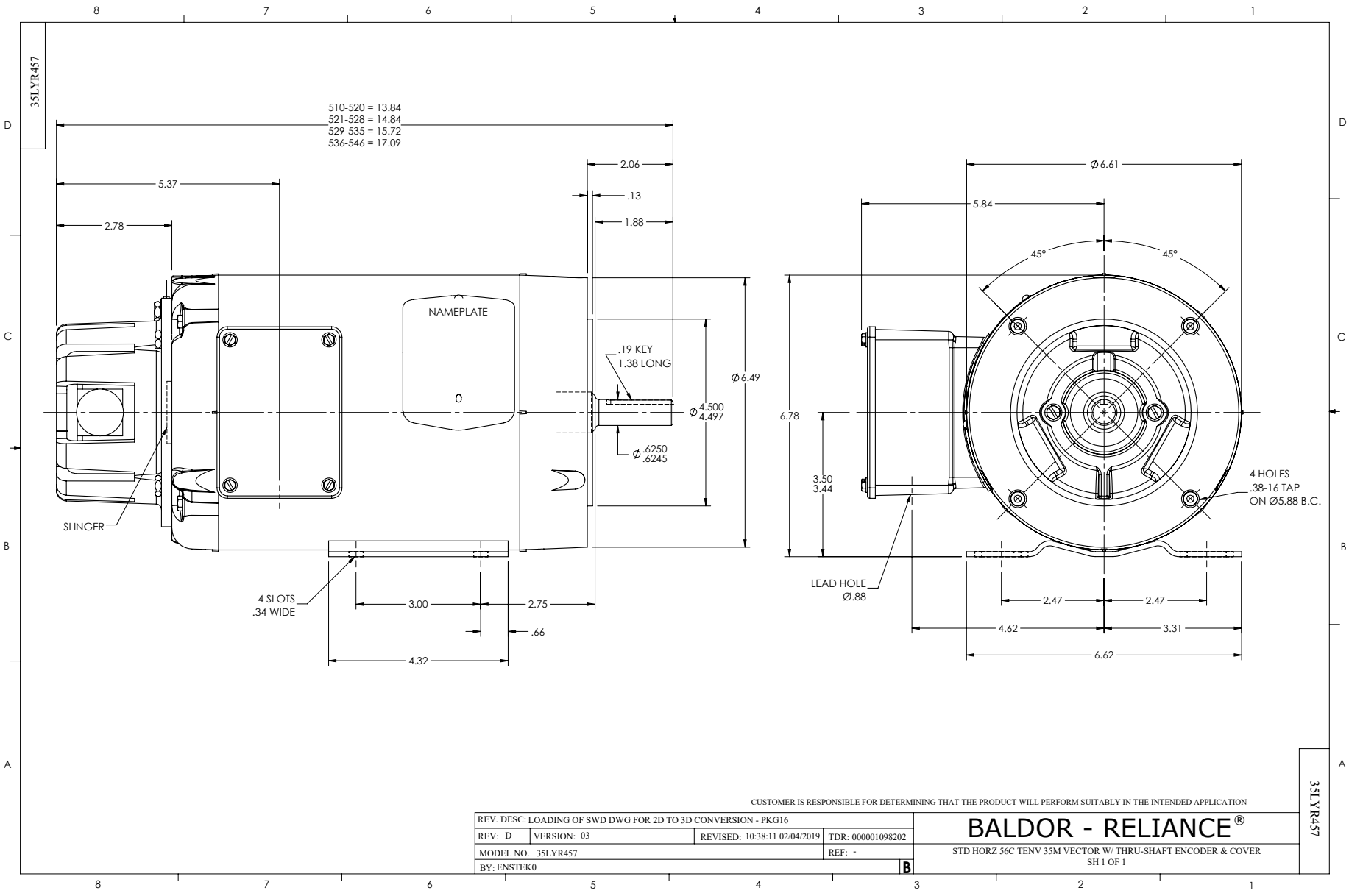
WINDING # 35WGG069

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

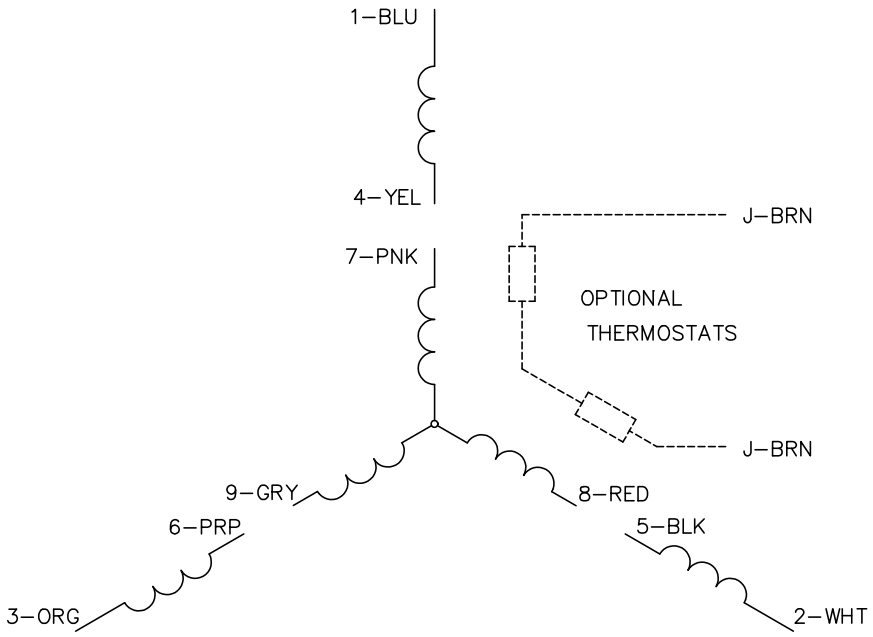
Typical performance - not guaranteed values.

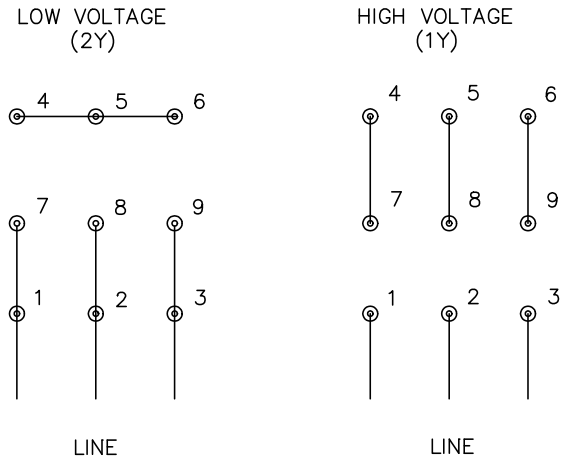
TORQUES(LB-FT): PO=8 PU=4.4 LR=5.1 LRA=8.4




35LYR457
510-520 = 13.84
521-528 = 14.84
529-535 = 15.72
536-546 = 17.09
2.06
.13
1.88
5.37
2.78
NAMEPLATE
.19 KEY
1.38 LONG
Ø 6.49
Ø 4.500
4.497
Ø .6250
.6245
SLINGER
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
Ø 6.61
5.84
45°
45°
6.78
3.50
3.44
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
LEAD HOLE
Ø.88
2.47
2.47
4.62
3.31
6.62
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 - PKG16
REV: D
VERSION: 03
REVISED: 10:38:11 02/04/2019
TDR: 000001098202
MODEL NO. 35LYR457
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
STD HORZ 56C TENV 35M VECTOR W/ THRU-SHAFT ENCODER & COVER
SH 1 OF 1
35LYR457

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