ABB BALDOR RELIANCE

Customer information packet

ZDWNM3611T

3HP, 1760RPM, 3PH, 60HZ, 184TC, 3640M, TENV, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/13/2026 7:57:31 PM

Specifications

Enclosure	TENV
Frame	184TC
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	3.000 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	UR
	CSA
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	4.100 A @ 460.0 V
	8.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a

Part Detail

Revision	H
Type	AC
Mech. spec.	36J562
Base	
Status	PRD/A
Elec. spec.	36WGS952
Layout	36LYJ562
Eff. date	09-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	07-03-2012

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 Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.27 IN
Power Factor	78
Product Family	Wash Down
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP1609L								
CAT NO	ZDWNM3611T							
SPEC.	36J562S952Z1							
FRAME	184TC			**HP**	3 TE			
VOLTS	230/460							
MAG CUR	4.2/2.1				**FLA**	8.2/4.1		
RPM	1760			**RPM MAX**	6000			
HZ	60	**PH**	3		**CLASS**	H		
SER.F.	1.00	**DES**	B			**SL HZ**	1.4	
NEMA-NOM-EFF	89.5		**WK2**	0.372				
BLWR V		**PH**		**HZ**		**A**		
RATING	40C AMB-CONT							
DE BRG	6206			**ODE BRG**	6205			
CC	010A	**SER.NO**						

BALDOR
A MEMBER OF THE ABB GROUP

AC Induction Motor Performance Data

Record # 39007
Typical performance - not guaranteed values

Winding: 36WGS952	**Type:** 3640M	**Enclosure:** TENV

Nameplate Data			
Rated Output (HP)	3		
Volts	208-230/460		
Full Load Amps	8.6-8.2/4.1		
R.P.M.	1760		
Hz	60	Phase	3
NEMA Design Code	B	KVA Code	K
Service Factor	1		
NEMA Nom. Eff.	89.5	P.F.	78
Rating - Duty	40C AMB-CONT		
S.F. Amps			

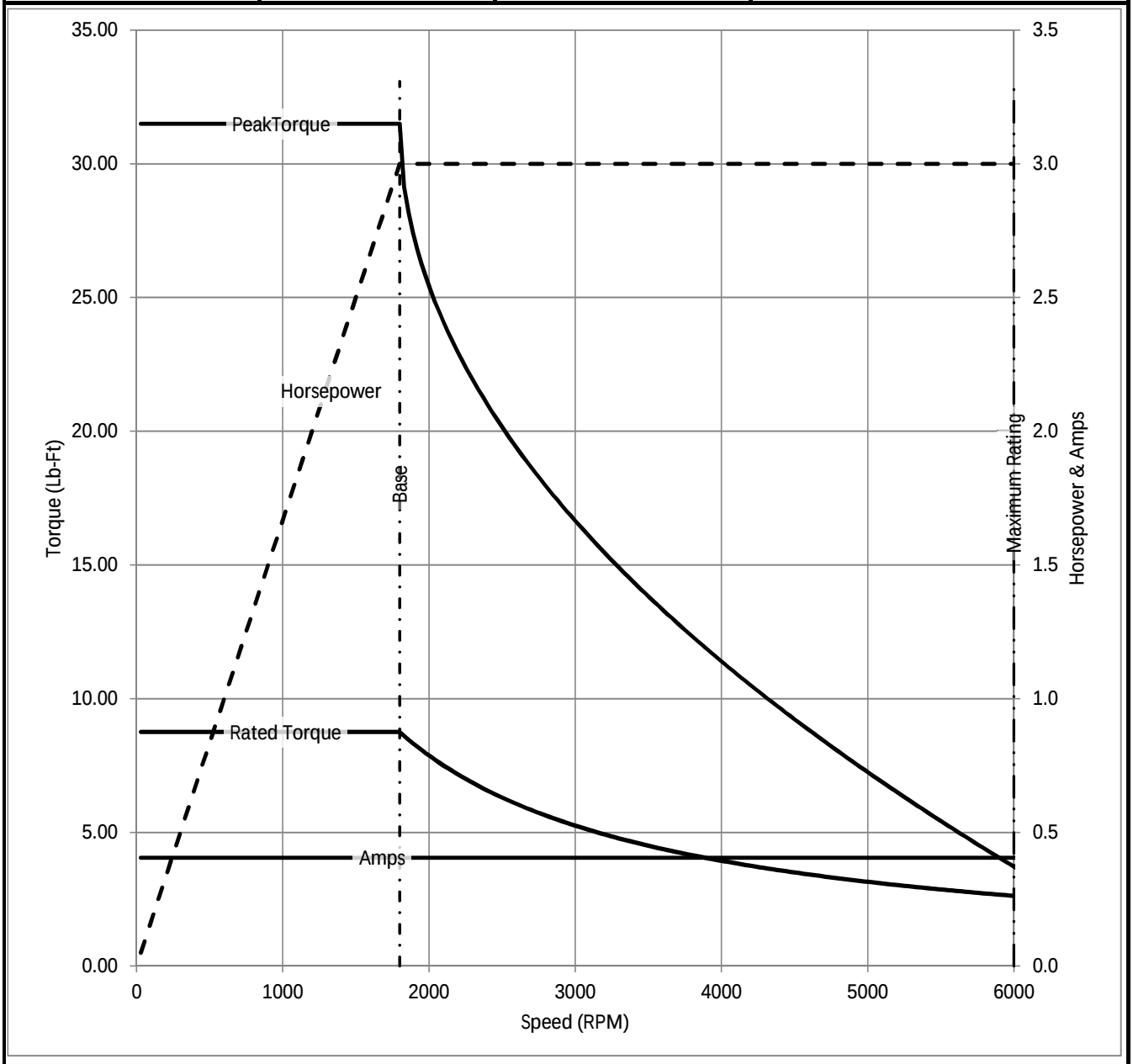
General Characteristics at 460 V, 60 Hz: High Volt Connection	
Full Load Torque	9.1 LB-FT
Start Configuration	DOL
Break Down Torque	35 LB-FT
Pull-Up Torque	18.8 LB-FT
Locked-rotor Torque	22.7 LB-FT
Starting Current	32.9 Amps
No-load Current	2.09 Amps
Line-line Res. @ 25°C.	3.3157 Ohms
Temp. Rise @ Rated Load	74°C
Temp. Rise @ S.F. Load	

Load Characteristics at 460 Volts, 60 Hz, 3 HP

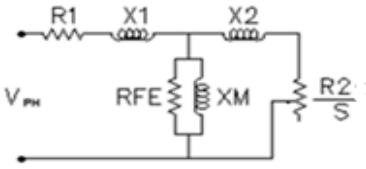
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	71	78	82	84	
Efficiency	83.8	89.3	90.4	90.3	89.6	88.5	
Speed	1790.1	1780.3	1769.9	1758.7	1746.6	1732.6	
Line Amperes	2.29	2.72	3.34	4.05	4.86	5.75	

Baldor Electric Company Fort Smith, Arkansas BALDOR • RELIANCE

Catalog	ZDWNM3611T	NP VOLTS	230/460	ENCLOSURE	TENV	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	184TC	NP AMPS	8.2/4.1	Base Volts	460	R1	1.640	X1	5.143
HP	3 HP	DUTY	Cont	Base AMPS	4.05	R2	1.260	X2	4.486
BASE SPEED	1800	MAX SAFE RPM	6000	Slip Hz	1.37			XM	120.167
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/H	WK^2 (lb-ft^2)	0.372				



Remarks: Calculated Data



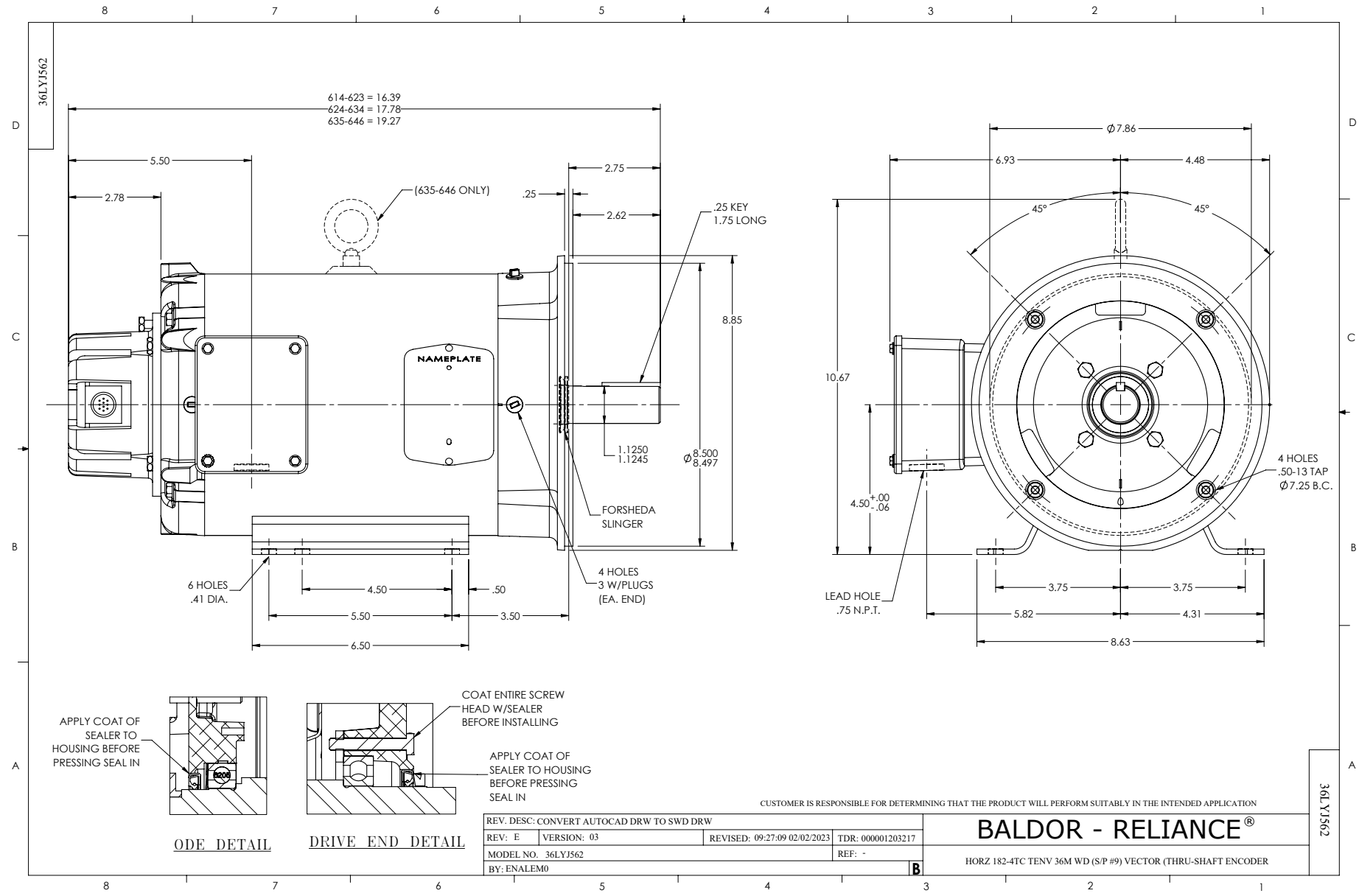
BALDOR
A MEMBER OF THE ABB GROUP

DR BY ENR
CK BY
APP BY ENR
DATE 3/6/2013

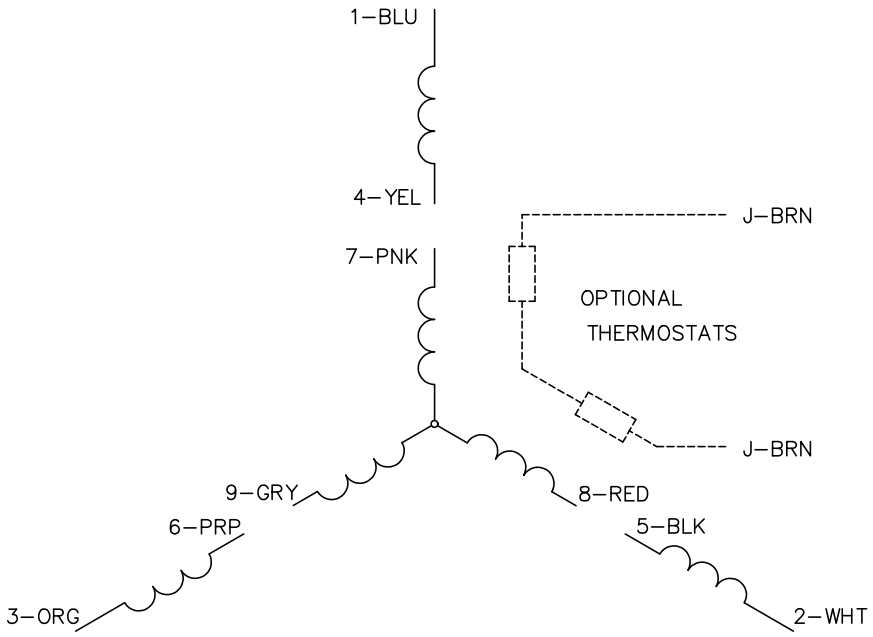
A-C MOTOR
PERFORMANCE CURVES

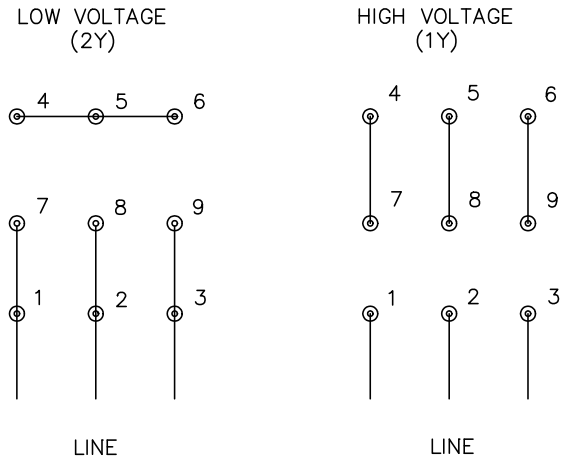
36J562S952Z1

ISSUE DATE 3/6/2013


36LYJ562
614-623 = 16.39
624-634 = 17.78
635-646 = 19.27
5.50
2.78
(635-646 ONLY)
2.75
.25
2.62
.25 KEY
1.75 LONG
8.85
NAMEPLATE
1.1250
1.1245
Ø8.500
8.497
FORSHEDA
SLINGER
4 HOLES
3 W/PLUGS
(EA. END)
6 HOLES
.41 DIA.
4.50
.50
5.50
3.50
6.50
Ø7.86
6.93
4.48
45°
45°
10.67
4 HOLES
.50-13 TAP
Ø7.25 B.C.
4.50 +.00 -.06
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.82
4.31
8.63
APPLY COAT OF
SEALER TO
HOUSING BEFORE
PRESSING SEAL IN
6206
COAT ENTIRE SCREW
HEAD W/SEALER
BEFORE INSTALLING
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN
ODE DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: E
VERSION: 03
REVISED: 09:27:09 02/02/2023
TDR: 000001203217
MODEL NO. 36LYJ562
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4TC TENV 36M WD (S/P #9) VECTOR (THRU-SHAFT ENCODER
36LYJ562

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