ABB BALDOR RELIANCE

Customer information packet

IDWNM3611T

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

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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	NO FEEDBACK
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	N
Type	AC
Mech. spec.	36J565
Base	
Status	PRD/A
Elec. spec.	36WGS952
Layout	36LYJ565
Eff. date	09-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-31-2012

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

NP3956L									
CAT.NO.	IDWNM3611T								
SPEC.	36J565S952G1								
FRAME	184TC		**H.P.**	3 TE					
VOLTS	230/460								
MAG. CUR.	4.2/2.1				**F.L. AMPS**	8.2/4.1			
R.P.M.	1760			**R.P.M. 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**		**AMPS**			
RATING	40C AMB-CONT								
DE BRG	6206		**ODE BRG**	6205					
CC	010A	**SN**							

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AC Induction Motor Performance Data

Record # 39007
Typical performance - not guaranteed values

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

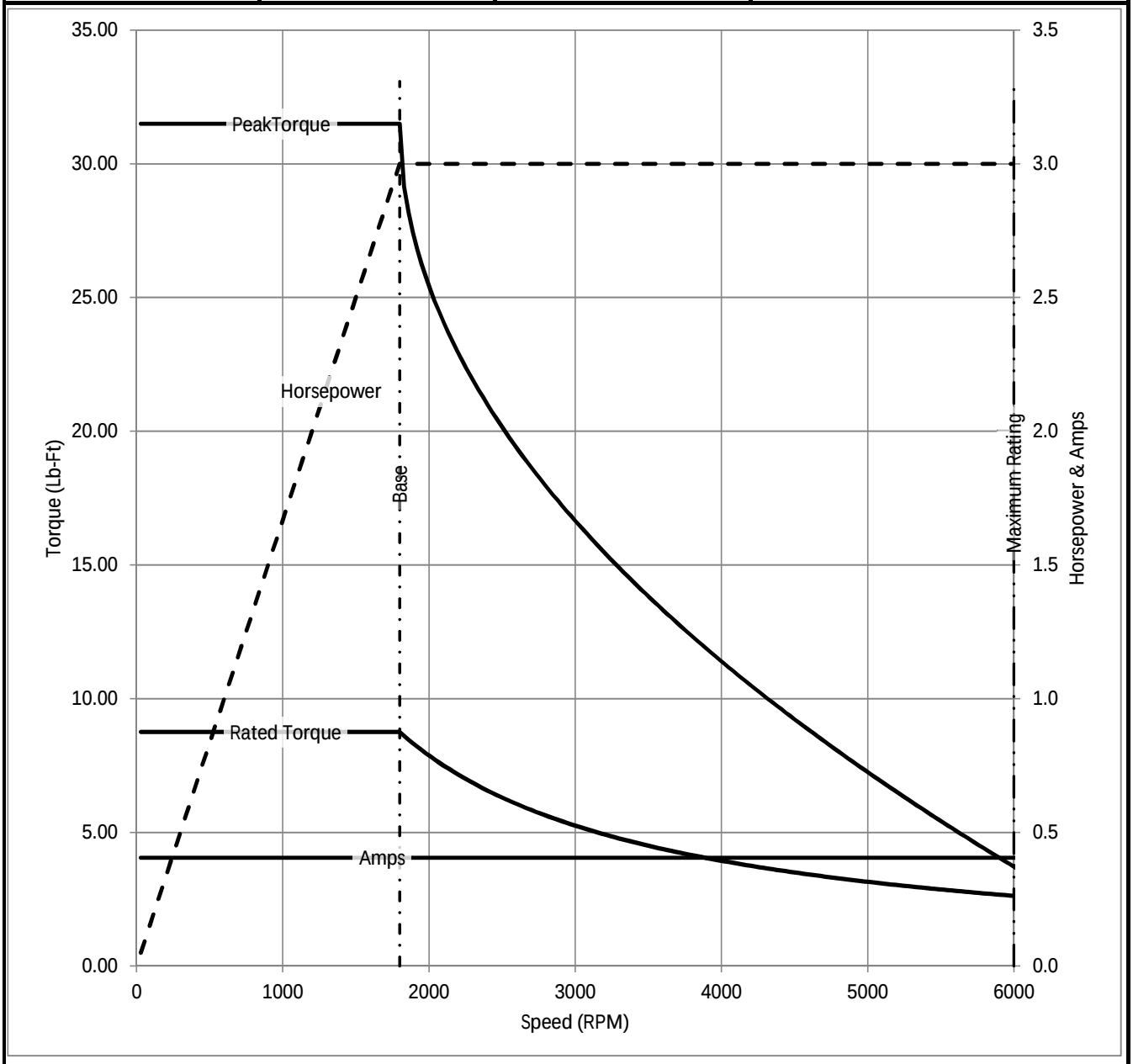
Nameplate Data				General Characteristics at 460 V, 60 Hz: High Volt Connection	
Rated Output (HP)	3			Full Load Torque	9.1 LB-FT
Volts	208-230/460			Start Configuration	DOL
Full Load Amps	8.6-8.2/4.1			Break Down Torque	35 LB-FT
R.P.M.	1760			Pull-Up Torque	18.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	22.7 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	32.9 Amps
Service Factor	1			No-load Current	2.09 Amps
NEMA Nom. Eff.	89.5	P.F.	78	Line-line Res. @ 25°C.	3.3157 Ohms
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	74°C
S.F. Amps				Temp. Rise @ S.F. Load	

Load Characteristics at 460 Volts, 60 Hz, 3 HP

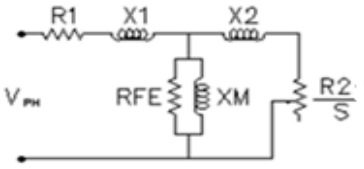
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	71	78	82	84	
Efficiency	83.8	89.3	90.4	90.3	89.6	88.5	
Speed	1790.1	1780.3	1769.9	1758.7	1746.6	1732.6	
Line Amperes	2.29	2.72	3.34	4.05	4.86	5.75	

Baldor Electric Company Fort Smith, Arkansas BALDOR • RELIANCE

Catalog	IDWNM3611T	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



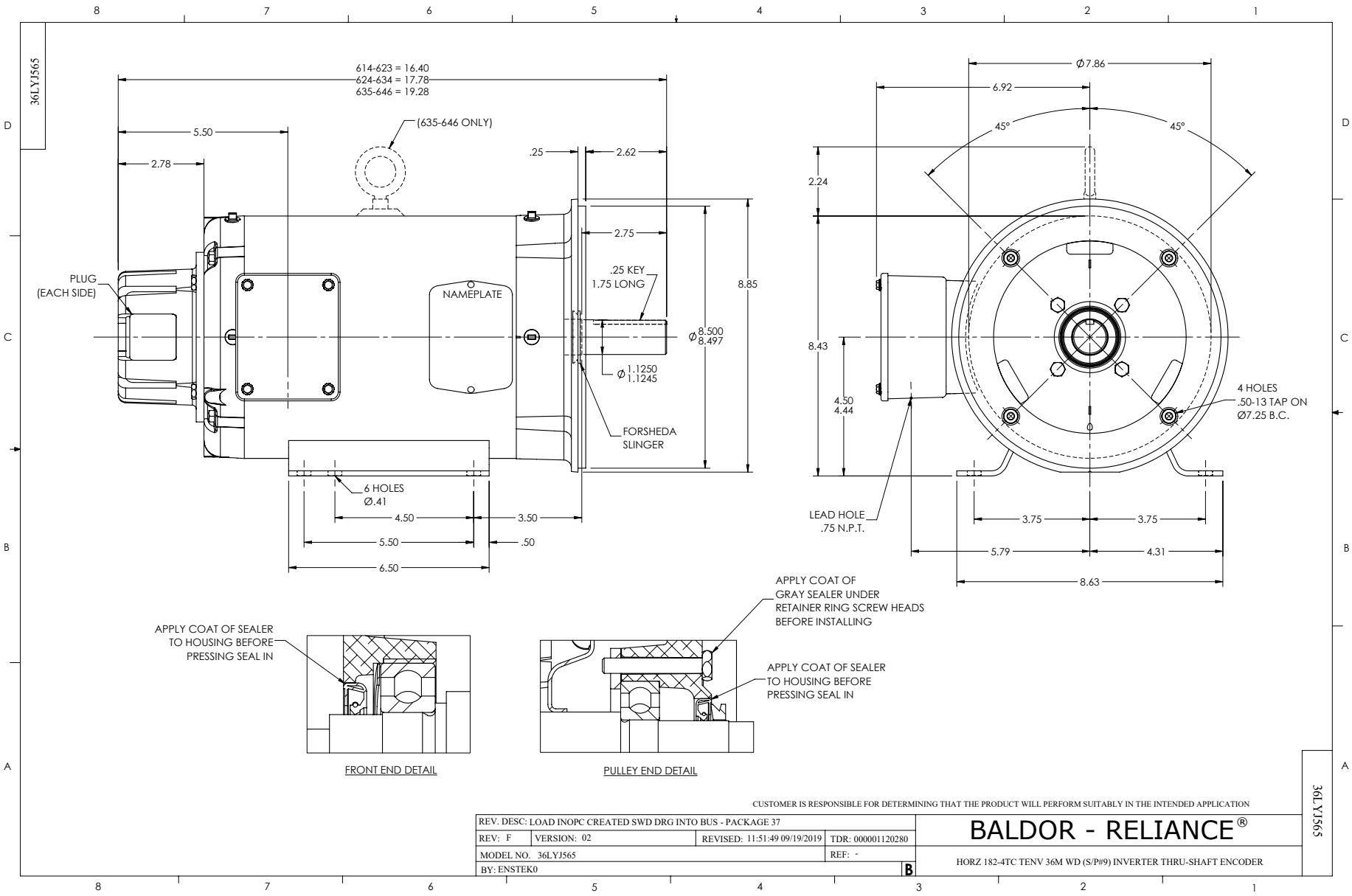
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DR BY ENR
CK BY
APP BY ENR
DATE 3/6/2013

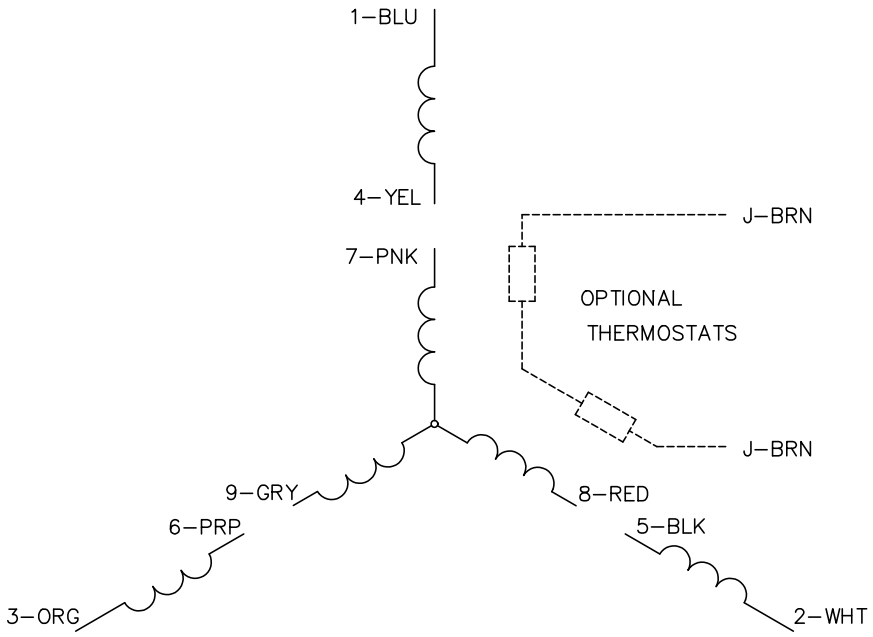
A-C MOTOR
PERFORMANCE CURVES

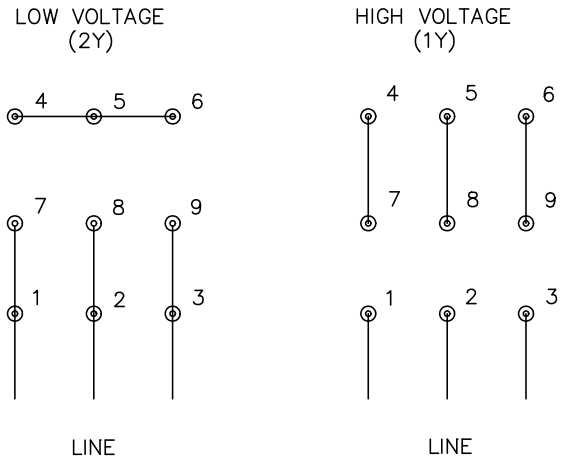
36J565S952G1

ISSUE DATE 3/6/2013


36LYJ565
614-623 = 16.40
624-634 = 17.78
635-646 = 19.28
(635-646 ONLY)
5.50
2.78
.25
2.62
2.75
.25 KEY
1.75 LONG
PLUG
(EACH SIDE)
NAMEPLATE
8.85
Ø 8.500
8.497
Ø 1.1250
1.1245
FORSHEDA
SLINGER
6 HOLES
Ø.41
4.50
3.50
5.50
.50
6.50
Ø7.86
6.92
45°
45°
2.24
8.43
4.50
4.44
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.79
4.31
8.63
APPLY COAT OF SEALER
TO HOUSING BEFORE
PRESSING SEAL IN
APPLY COAT OF
GRAY SEALER UNDER
RETAINER RING SCREW HEADS
BEFORE INSTALLING
APPLY COAT OF SEALER
TO HOUSING BEFORE
PRESSING SEAL IN
FRONT END DETAIL
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 37
REV: F
VERSION: 02
REVISED: 11:51:49 09/19/2019
TDR: 000001120280
MODEL NO. 36LYJ565
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
HORZ 182-4TC TENV 36M WD (S/P#9) INVERTER THRU-SHAFT ENCODER
36LYJ565

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