ABB BALDOR RELIANCE

Customer information packet

IDWNM3609T

2HP, 1760RPM, 3PH, 60HZ, 182TC, 3628M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	182TC
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	2.000 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	2.900 A @ 460.0 V
	5.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	2.9 a

Part Detail

Revision	E
Type	AC
Mech. spec.	36J565
Base	
Status	PRD/A
Elec. spec.	36WGR049
Layout	36LYJ565
Eff. date	09-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	07-01-2016

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	3628M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.77 IN
Power Factor	73
Product Family	Wash Down
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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.	IDWNM3609T								
SPEC.	36J565R049G1								
FRAME	182TC		**H.P.**	2 TE					
VOLTS	230/460								
MAG. CUR.	3.4/1.7				**F.L. AMPS**	5.8/2.9			
R.P.M.	1760		**R.P.M. MAX**	6000					
HZ.	60	**PH.**	3	**CLASS**	H				
SER.F.	1.00	**DES.**	B	**SL HZ**	1.3				
NEMA NOM. EFF.	88.5	**WK2**	0.26						
BLWR V		**PH**		**HZ**		**AMPS**			
RATING	40C AMB-CONT								
DE BRG	6206	**ODE BRG**	6205						
CC	010A	**SN**							

AC Induction Motor Performance Data
Record # 57979
Typical performance - not guaranteed values

Winding: 36WGR049-R002	**Type:** 3628M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.98 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.8/2.9	**Breakdown Torque**	23.2 LB-FT
R.P.M.			1760	**Pull-up Torque**	13.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	14.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	22.3 A
Service Factor (S.F.)			1	**No-load Current**	1.7 A
NEMA Nom. Eff.	88.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	5.6879 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
				Locked-rotor Power Factor	43.2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	33	53	65	73	78	81
Efficiency	79.9	86.9	88.7	89	88.5	87.7
Speed	1790.3	1781.4	1772.5	1762	1751	1739
Line amperes	1.82	2.08	2.43	2.88	3.4	3.96

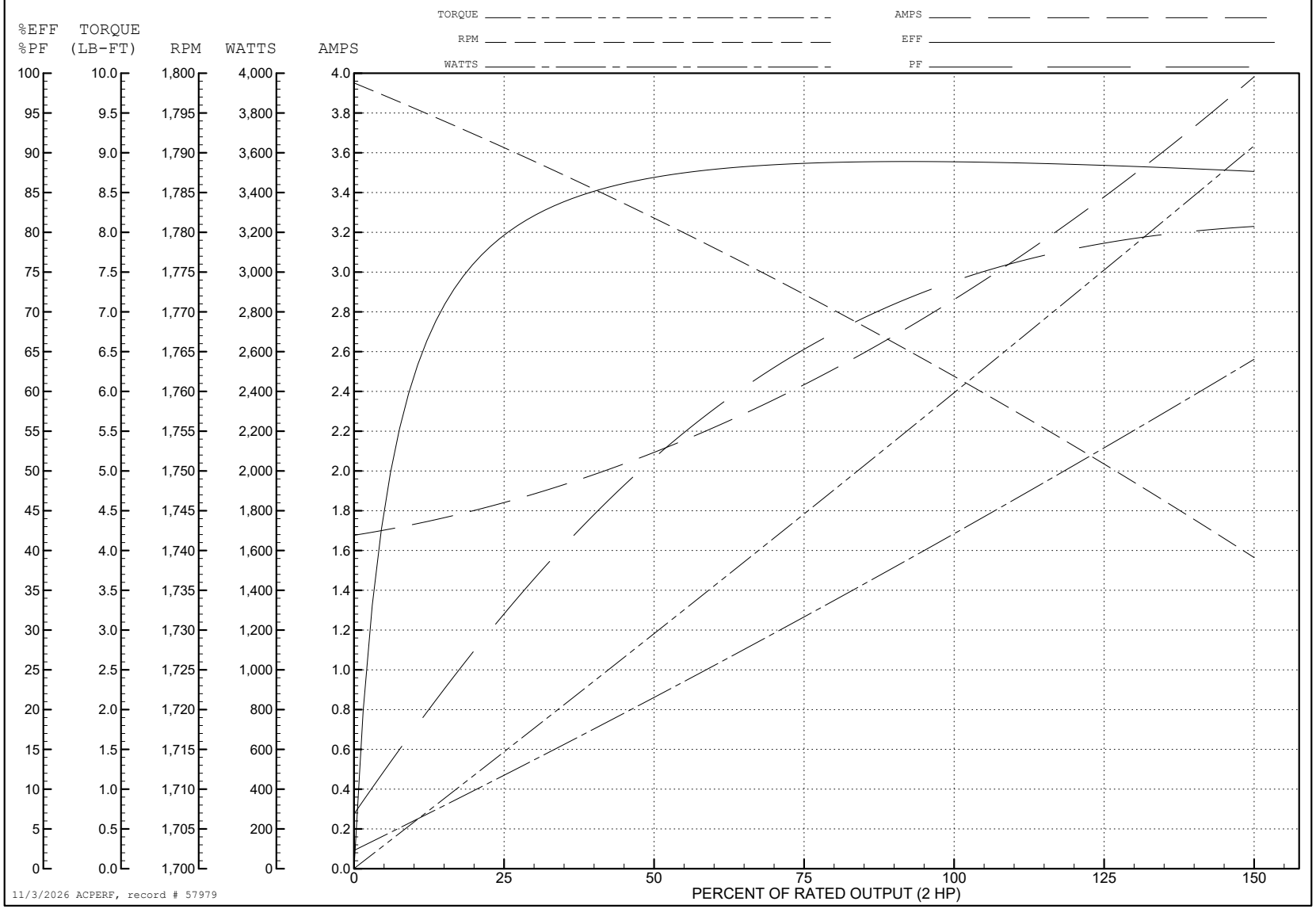
ABB Motors and Mechanical Inc.

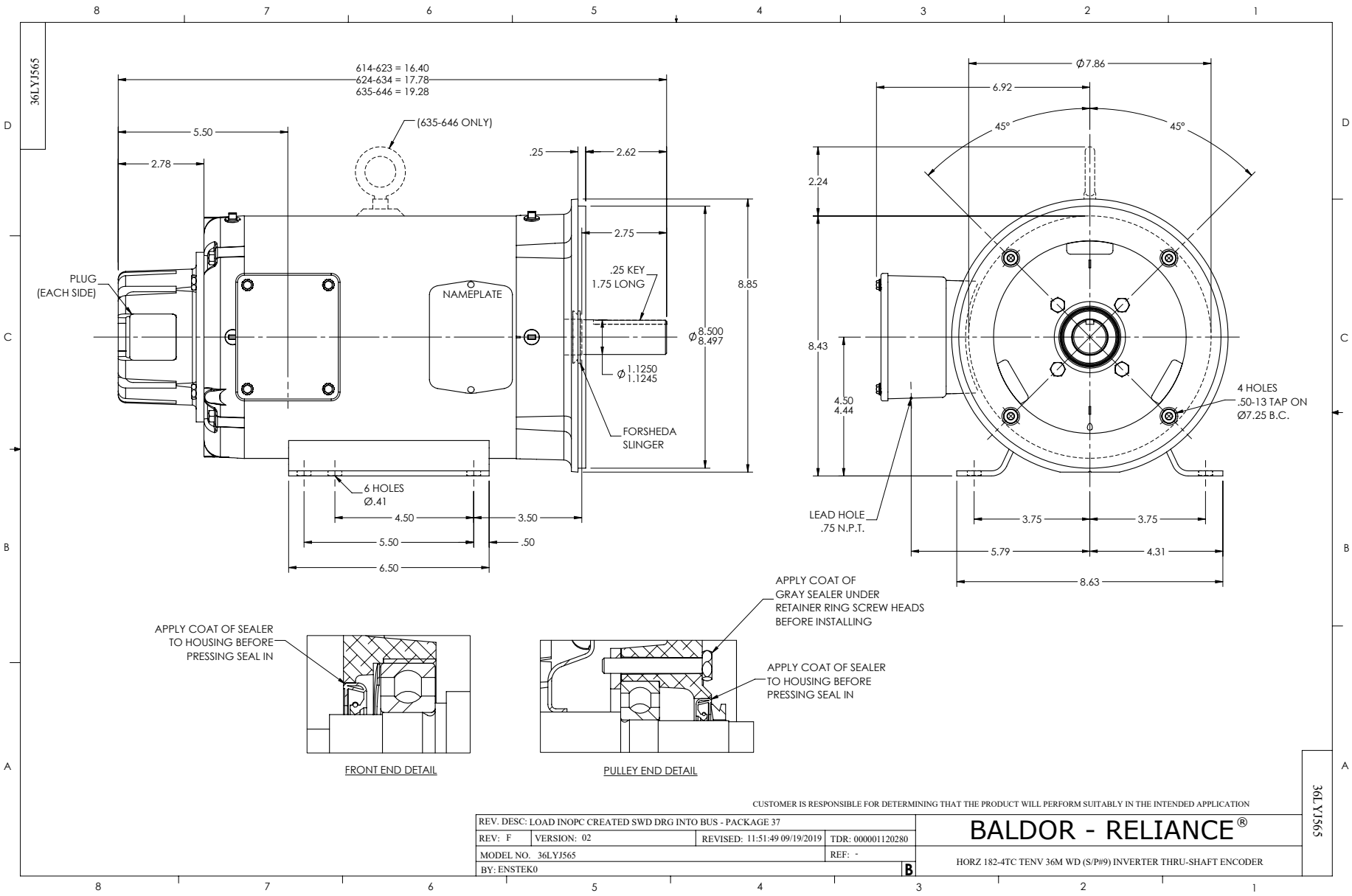
WINDING # 36WGR049

2 HP 3 PH 60 HZ 1760 RPM 460 V 3628M

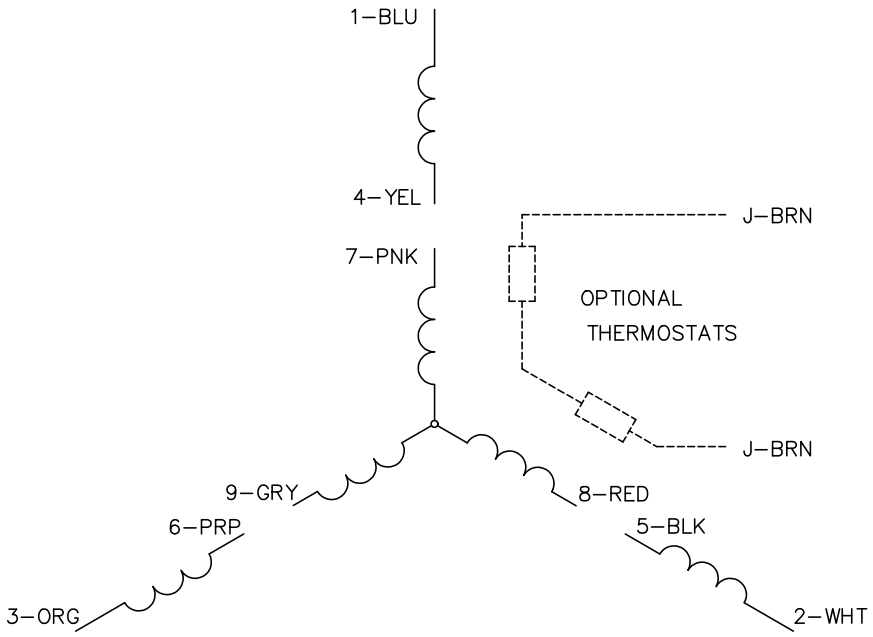
Typical performance - not guaranteed values.

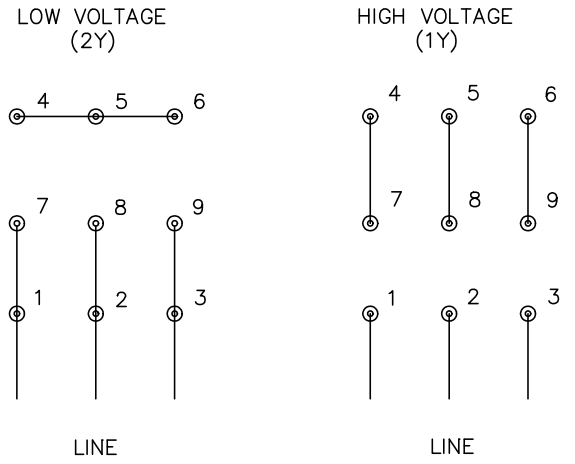
TORQUES(LB-FT): PO=23.2 PU=13.2 LR=14.9 LRA=22.3




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