ABB BALDOR RELIANCE

Customer information packet

UCME7510

7.5-10 AIR OVERHP, 3450RPM, 3PH, 60HZ, 184TZ
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	184TZ
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	10.000 HP @ 60 HZ
	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 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	23.500 A @ 208.0 V
	23.000 A @ 230.0 V
	11.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	M
Type	AC
Mech. spec.	36Q213
Base	
Status	PRD/A
Elec. spec.	36WGW514
Layout	36LYQ213
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	02
Leads	9#16 30" long Y
Proprietary	False
Created date	03-06-2014

Heater Indicator	No Heater
High Voltage Full Load Amps	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
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	2
Overall Length	16.88 IN
Power Factor	94
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
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	3450 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

NP1279L											
CAT.NO.	UCME7510										
SPEC.	36Q213W514G2										
HP	7.5-10 AIR OVER										
VOLTS	230/460										
AMP	23/11.5										
RPM	3450										
FRAME	184TZ	**HZ**	60		**PH**	3					
SER.F.	1.00	**CODE**	G	**DES**	B		**CL**	F			
NEMA-NOM-EFF	86.5	**PF**	94								
RATING	40C AMB-CONT										
CC											
DE	6206	**ODE**	6205								
ENCL	TEAO	**SN**									

NP3114L									
CAT.NO.	UCME7510								
SPEC.	36Q213W514G2								
HP	7.5-10 AIR OVER								
VOLTS	230/460								
AMP	23/11.5								
RPM	3450								
FRAME	184TZ	**HZ**	60		**PH**	3			
SER.F.	1.00	**CODE**	G	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	94						
RATING	40C AMB-CONT								
CC				**USABLE AT 208V**			N/A		
DE	6206	**ODE**	6205						
ENCL	TEAO	**SN**							

Accessories

Part number	Description	Multiplier
36-3301FD	C FACE KIT FARM DUTY 182-4TC ENCL, 6206	P1
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data
Record # 20860
Typical performance - not guaranteed values

Winding: 36WGW514-R002	**Type:** 3640M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5-10 AIR OVER	**Full Load Torque**	15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			23/11.5	**Breakdown Torque**	68 LB-FT
R.P.M.			3450	**Pull-up Torque**	51 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	56 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	100 A
Service Factor (S.F.)			1	**No-load Current**	2.7 A
NEMA Nom. Eff.	86.5	**Power Factor**	94	**Line-line Res. @ 25ºC**	1.32 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C

Load Characteristics 460 V, 60 Hz, 9.8 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	76	89	93	95	95	94
Efficiency	85	88	88	87	85	83
Speed	3557	3518	3478	3434	3389	3340
Line amperes	4.1	6.5	9	11.6	14.4	17.6

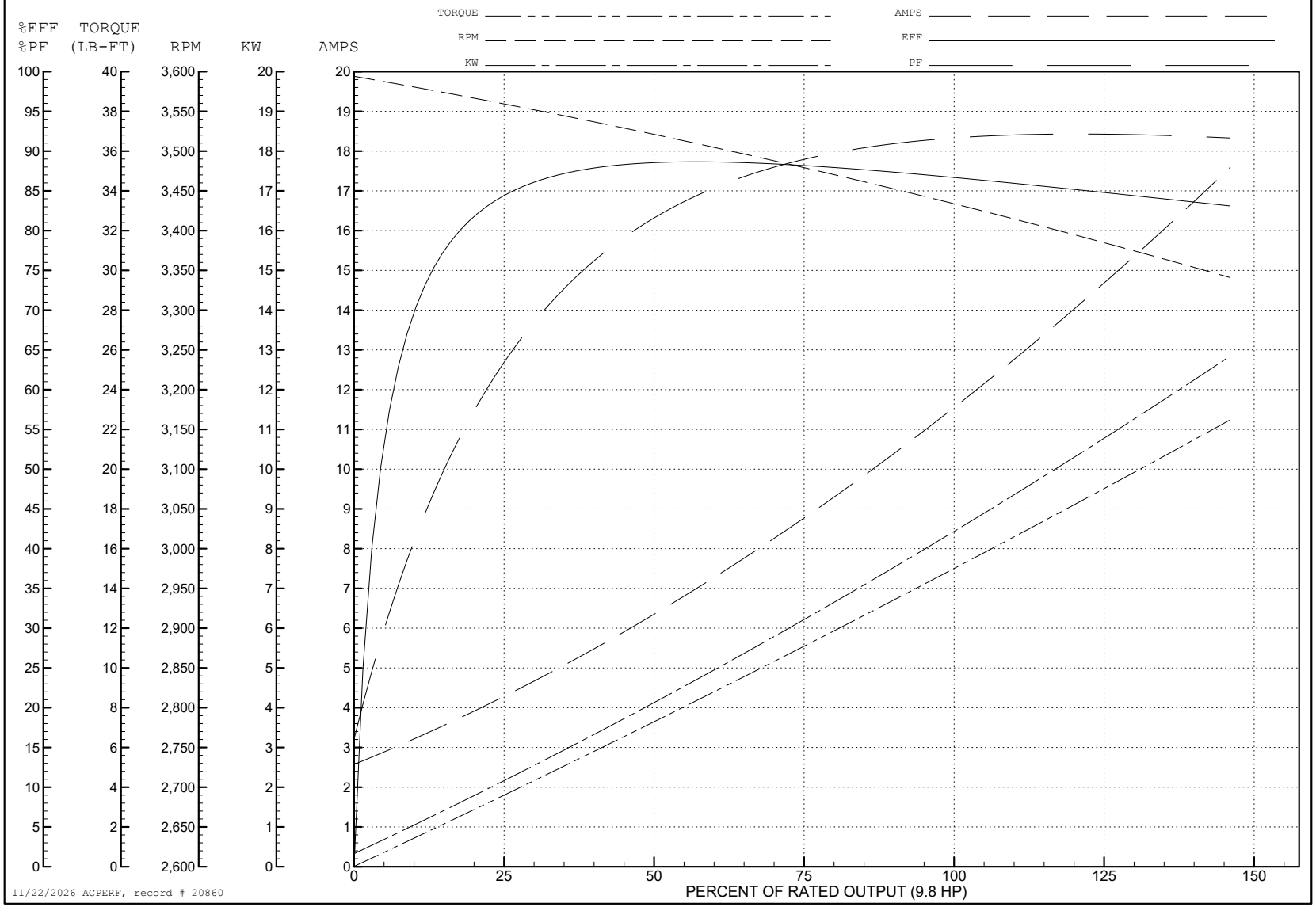
ABB Motors and Mechanical Inc.

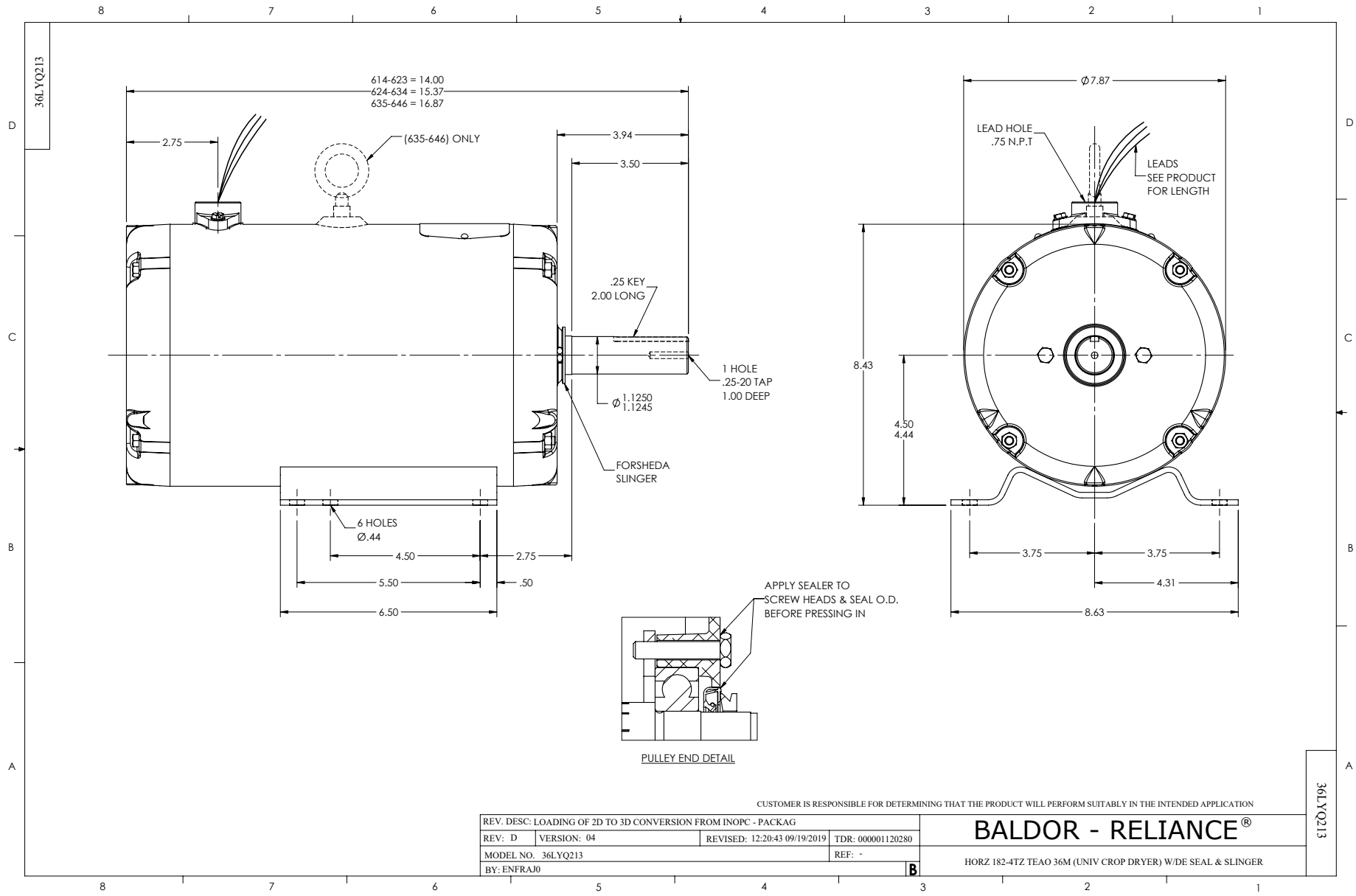
WINDING # 36WGW514

9.8 HP 3 PH 60 HZ 3450 RPM 460 V 3640M

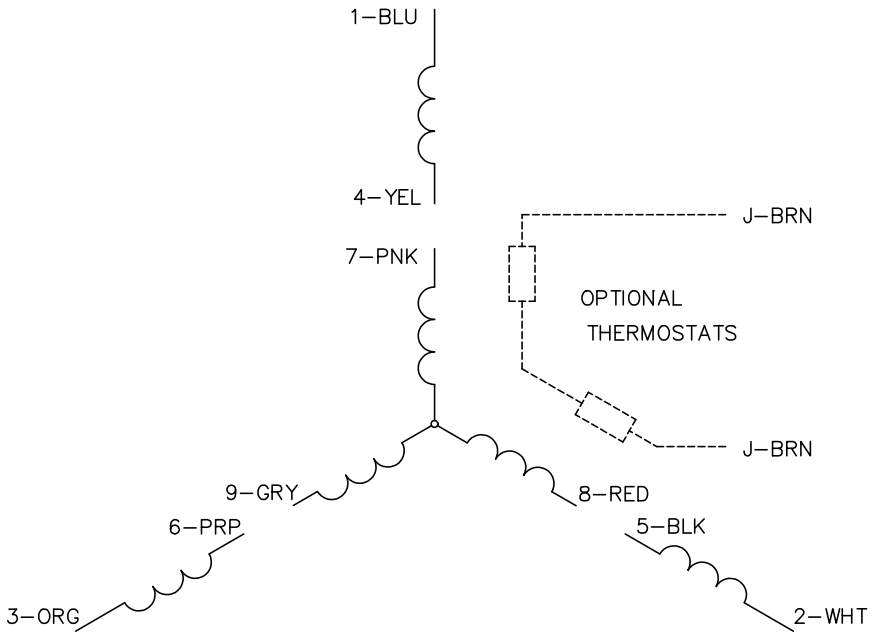
Typical performance - not guaranteed values.

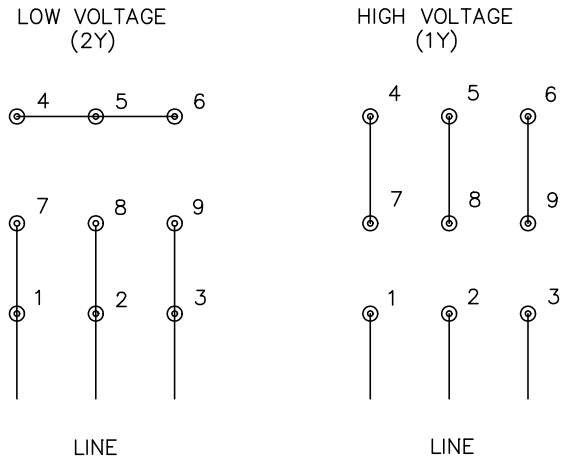
TORQUES(LB-FT): PO=68 PU=51 LR=56 LRA=100




36LYQ213
614-623 = 14.00
624-634 = 15.37
635-646 = 16.87
2.75
(635-646) ONLY
3.94
3.50
.25 KEY
2.00 LONG
1 HOLE
.25-20 TAP
1.00 DEEP
Ø 1.1250
1.1245
FORSHEDA
SLINGER
6 HOLES
Ø.44
4.50
2.75
5.50
.50
6.50
Ø7.87
LEAD HOLE
.75 N.P.T
LEADS
SEE PRODUCT
FOR LENGTH
8.43
4.50
4.44
3.75
3.75
4.31
8.63
APPLY SEALER TO
SCREW HEADS & SEAL O.D.
BEFORE PRESSING IN
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF 2D TO 3D CONVERSION FROM INOPC - PACKAG
REV: D
VERSION: 04
REVISED: 12:20:43 09/19/2019
TDR: 000001120280
MODEL NO. 36LYQ213
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ 182-4TZ TEAO 36M (UNIV CROP DRYER) W/DE SEAL & SLINGER
36LYQ213

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