ABB BALDOR RELIANCE

Customer information packet

VSPM3611T

3HP, 1765RPM, 3PH, 60HZ, 182TC, 3642M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	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	WEEE
	NEMA PREMIUM 4
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.200 A @ 460.0 V
	8.400 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	36P428
Base	
Status	PRD/A
Elec. spec.	36WGZ631
Layout	36LYP428
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	01-03-2024

Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.04 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4423A01A01L											
CAT #	VSPM3611T			**WGT**	93	**LBS**					
SPEC	36P428Z631			**ENCL**	TEFC						
SER #				**CC**	010A	**IP**	54				
HP	3			**MAG CUR**	4.8/2.4						
VOLTS	230/460					**NEMA NOM. EFF**	91				
AMPS	8.4/4.2					**PF**	74				
RATING	40C AMB-CONT										
RPM	1765					**MAX RPM**	2700				
FRAME	182TC	**HZ**	60			**CODE**	L	**CLASS**	F		
SER.F.	1.15	**SF AMP**	9.4/4.7			**PH**	3	**DES**	A		
DE	6206			**ODE**	6205						
LUBRICATION	POLYREX EM										
ID LOGO		**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90	1.5:1	
ID LOGO	**WK2**	0.39	**CT**	6	**TO**	60		10:1			
ID LOGO	**SL HZ**	1.2	**VT**	3	**TO**	60		20:1			
						QR					
YR											

AC Induction Motor Performance Data
Record # 96363
Typical performance - not guaranteed values

Winding: 36WGZ631-R001	**Type:** 3642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	8.92 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2	**Breakdown Torque**	37.4 LB-FT
R.P.M.			1765	**Pull-up Torque**	21.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	25.1 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	34.6 A
Service Factor (S.F.)			1.15	**No-load Current**	2.42 A
NEMA Nom. Eff.	91	**Power Factor**	74	**Line-line Res. @ 25ºC**	2.59 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	39°C
S.F. Amps			9.4/4.7	**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	39
				Rotor inertia	0.391 lb-ft²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	65	74	77	80	76
Efficiency	83	89	91	91	90	89	90.4
Speed	1794	1785	1777	1767	1756	1745	1760
Line amperes	2.58	3.01	3.55	4.18	5.01	5.87	4.68

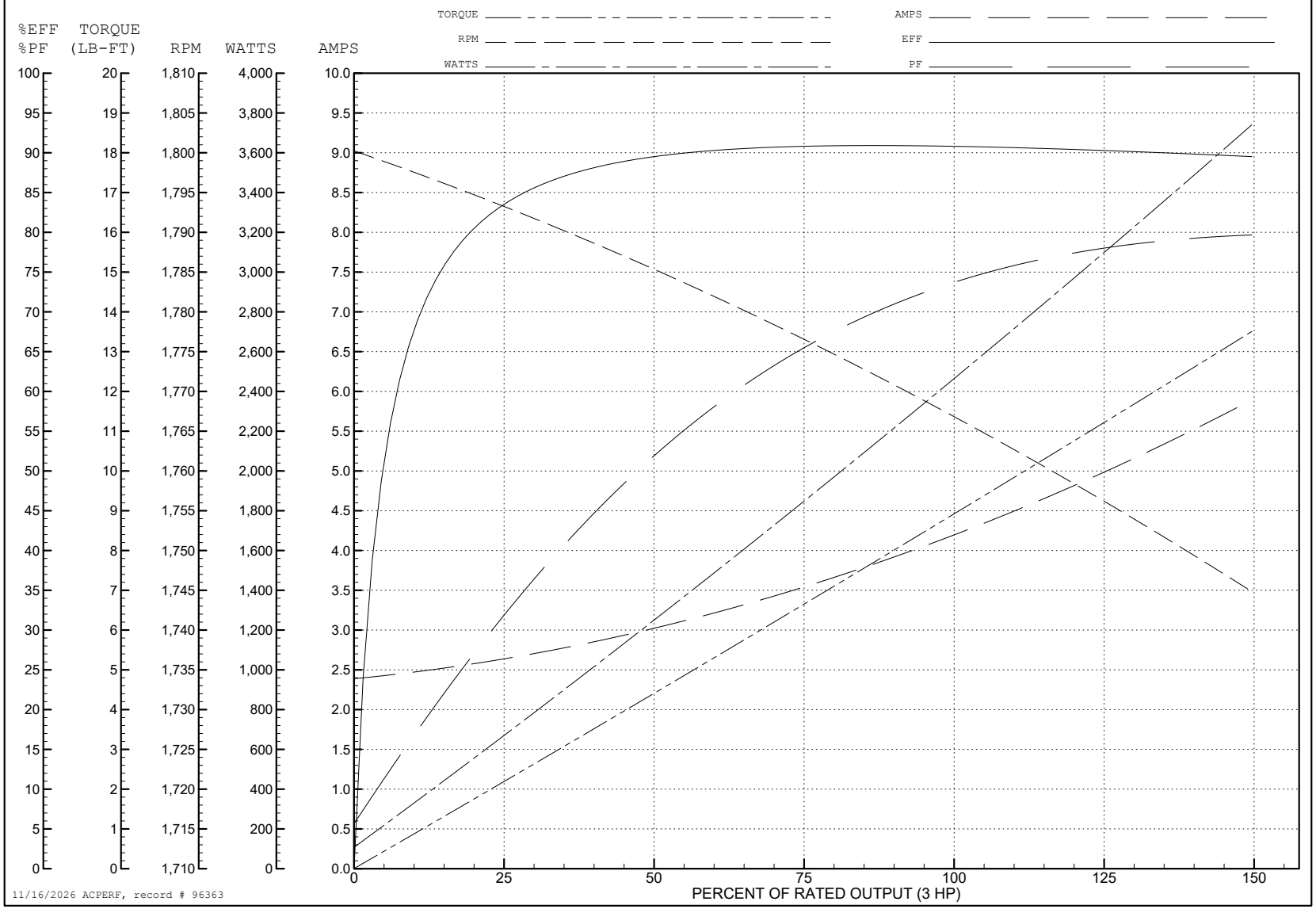
ABB Motors and Mechanical Inc.

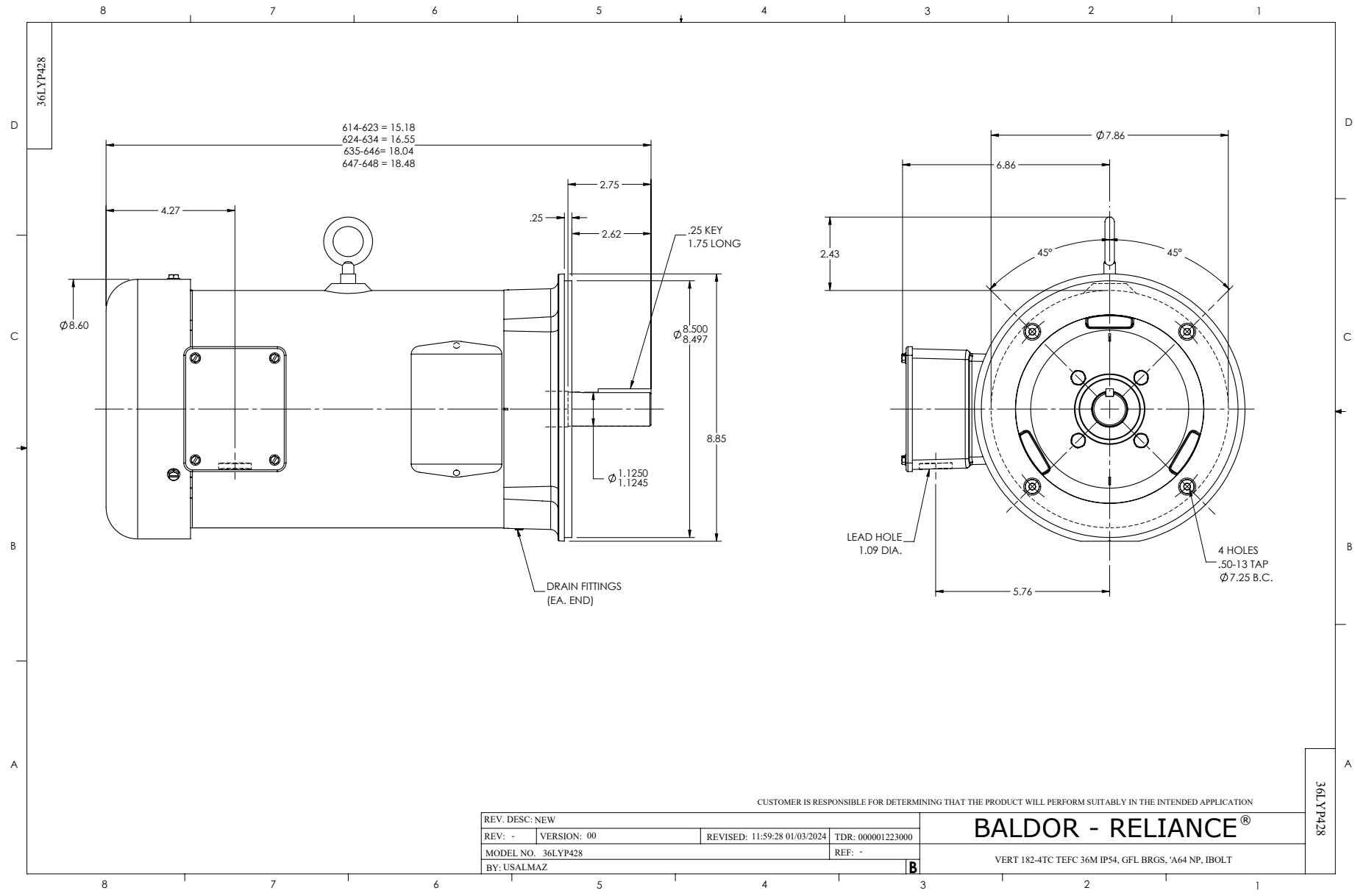
WINDING # 36WGZ631

3 HP 3 PH 60 HZ 1765 RPM 460 V 3642M

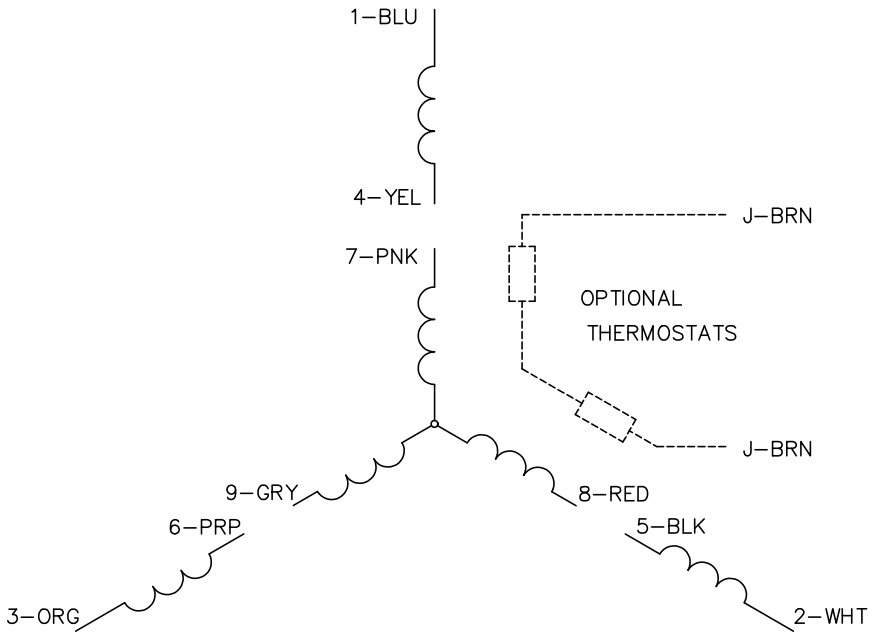
Typical performance - not guaranteed values.

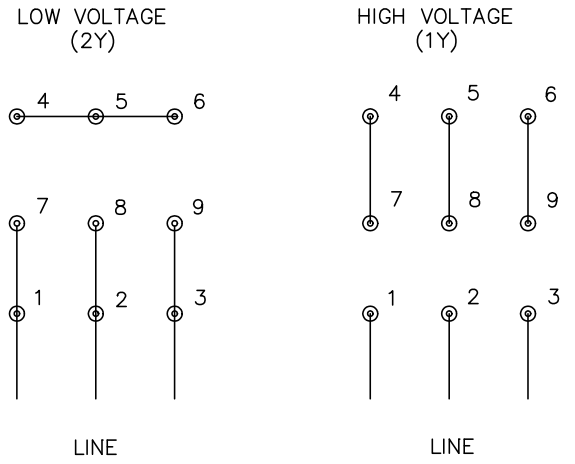
TORQUES(LB-FT): PO=37.4 PU=21.2 LR=25.1 LRA=34.6




36LYP428
614-623 = 15.18
624-634 = 16.55
635-646= 18.04
647-648 = 18.48
4.27
2.75
.25
2.62
.25 KEY
1.75 LONG
Ø8.60
Ø8.500
8.497
8.85
Ø1.1250
1.1245
DRAIN FITTINGS
(EA. END)
Ø7.86
6.86
2.43
45°
45°
LEAD HOLE
1.09 DIA.
4 HOLES
.50-13 TAP
Ø7.25 B.C.
5.76
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 11:59:28 01/03/2024 TDR: 000001223000
MODEL NO. 36LYP428 REF: -
BY: USALMAZ B
BALDOR - RELIANCE®
VERT 182-4TC TEFC 36M IP54, GFL BRGS, 'A64 NP, IBOLT
36LYP428

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