ABB BALDOR RELIANCE

Customer information packet

VEM3557T

1.5HP, 1165RPM, 3PH, 60HZ, 145TC, 3632M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TC
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	4.800 A @ 230.0 V
	5.000 A @ 208.0 V
	2.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	36J231
Base	
Status	PRD/A
Elec. spec.	36WGS916
Layout	36LYJ231
Eff. date	02-19-2026
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	04-29-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	2.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.68 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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

NP3441LUA											
CAT.NO.	VEM3557T										
SPEC	36J231S916G1										
HP	1.5										
VOLTS	230/460										
AMPS	4.8/2.4										
RPM	1165										
FRAME	145TC	**HZ**	60	**PH**	3						
SF	1.15	**CODE**	K	**DES**	B	**CLASS**	F				
NEMA NOM. EFF	87.5	**PF**	67								
RATING	40C AMB-CONT										
CC	010A										
ENCL	TEFC	**SER**									
DE	6206	**ODE**	6205								
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
	50Hz 1.5HP 190/380V 4.8/2.4A										SF1.0

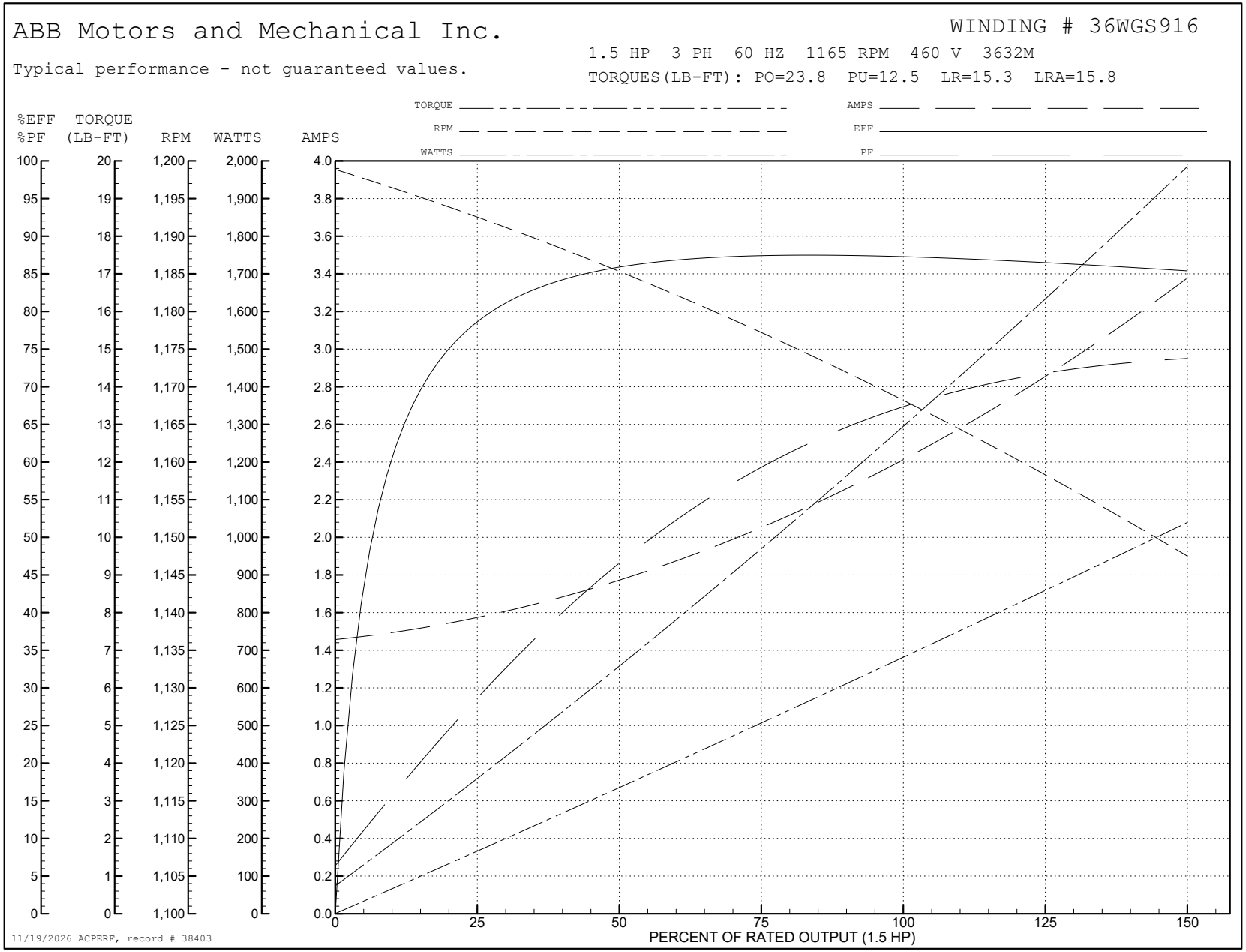
AC Induction Motor Performance Data
Record # 38403
Typical performance - not guaranteed values

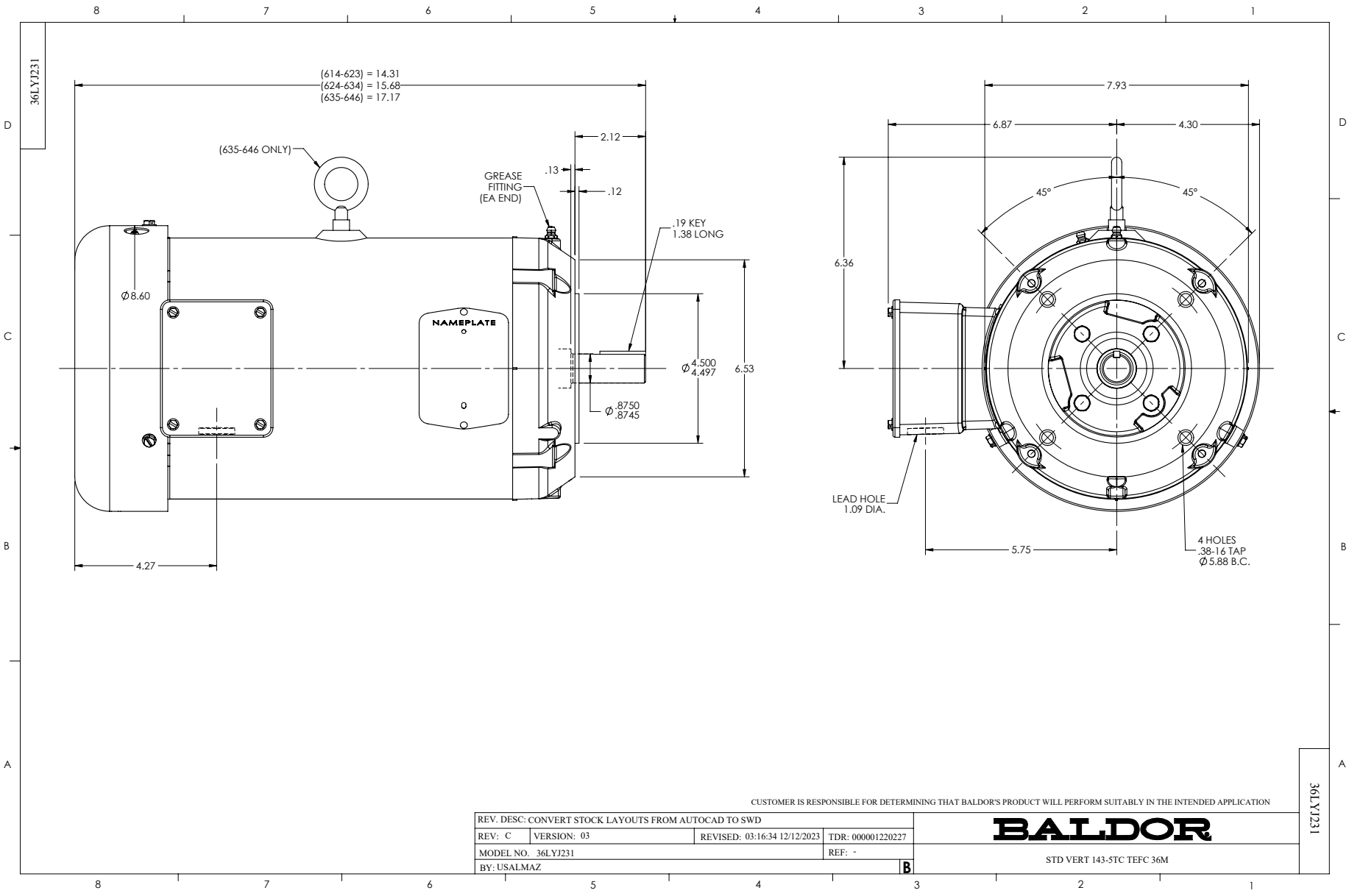
Winding: 36WGS916-R004	**Type:** 3632M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	6.86 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.8/2.4	**Breakdown Torque**	23.8 LB-FT
R.P.M.			1165	**Pull-up Torque**	12.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.3 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	15.8 A
Service Factor (S.F.)			1.15	**No-load Current**	1.47 A
NEMA Nom. Eff.	87.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	7.3716 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps				**Temp. Rise @ S.F. Load**	41°C
				Locked-rotor Power Factor	30
				Rotor inertia	0.301 LB-FT2

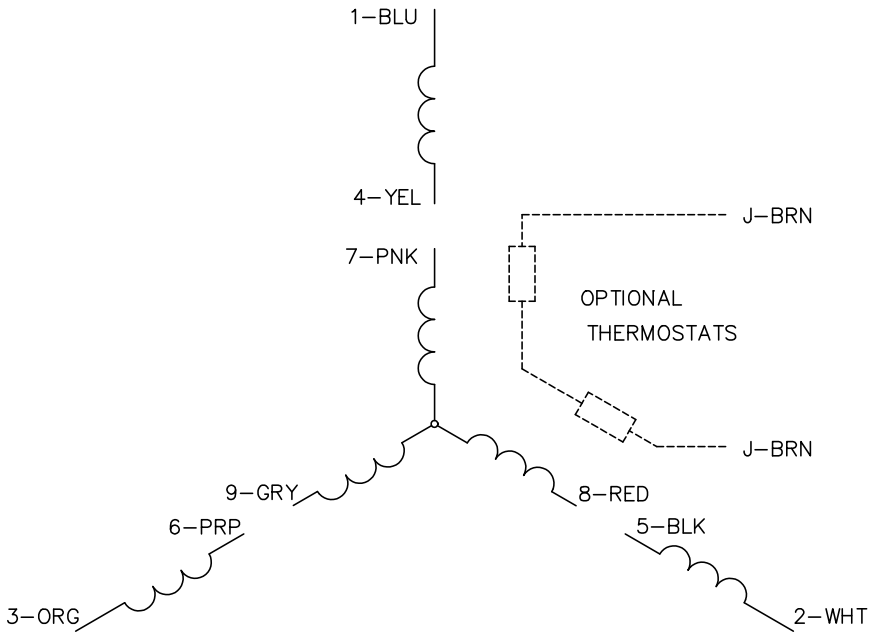
Load Characteristics 460 V, 60 Hz, 1.5 HP

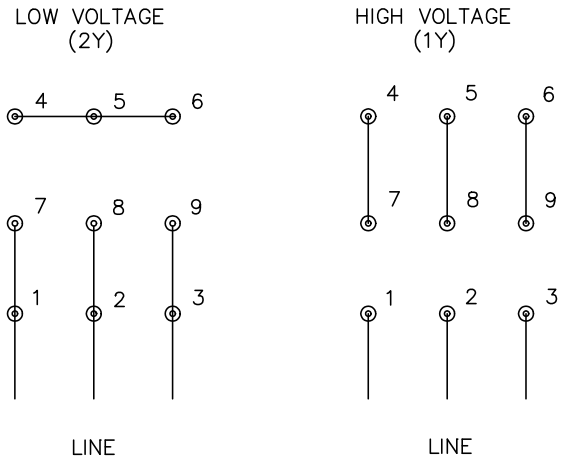
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	48	59	67	71	74	69
Efficiency	79.1	86	87.5	87.5	86.5	85.2	86.9
Speed	1192.2	1184.8	1176.8	1168.1	1158.2	1147.5	1162
Line amperes	1.57	1.77	2.07	2.43	2.88	3.36	2.7


ABB Motors and Mechanical Inc.
WINDING # 36WGS916
1.5 HP 3 PH 60 HZ 1165 RPM 460 V 3632M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=23.8 PU=12.5 LR=15.3 LRA=15.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/19/2026 ACPERF, record # 38403


36LYJ231
(614-623) = 14.31
(624-634) = 15.68
(635-646) = 17.17
(635-646 ONLY)
GREASE FITTING (EA END)
2.12
.13
.12
.19 KEY
1.38 LONG
Ø8.60
NAMEPLATE
Ø4.500
4.497
6.53
Ø.8750
.8745
4.27
7.93
6.87
4.30
45°
45°
6.36
LEAD HOLE
1.09 DIA.
5.75
4 HOLES
.38-16 TAP
Ø5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: C
VERSION: 03
REVISED: 03:16:34 12/12/2023
TDR: 000001220227
MODEL NO. 36LYJ231
REF: -
BY: USALMAZ
B
BALDOR
STD VERT 143-5TC TEFC 36M
36LYJ231

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