ABB BALDOR RELIANCE

Customer information packet

VEM3613T

5HP, 3480RPM, 3PH, 60HZ, 184TC, 3628M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
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	11.500 A @ 230.0 V
	13.000 A @ 208.0 V
	5.730 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.7 a

Part Detail

Revision	A
Type	AC
Mech. spec.	36A003
Base	
Status	PRD/A
Elec. spec.	36WGZ651
Layout	36LYA003
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-07-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	2
Overall Length	16.54 IN
Power Factor	92
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	3480 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.	VEM3613T								
SPEC	36A003Z651								
HP	5								
VOLTS	230/460								
AMPS	11.5/5.73								
RPM	3480								
FRAME	184TC	**HZ**	60		**PH**	3			
SF	1.15	**CODE**	L	**DES**	A	**CLASS**	F		
NEMA NOM. EFF	88.5	**PF**	92						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	**SER**							
DE	6206	**ODE**	6205						
VPWM INVERTER READY	SFA 13.2/6.61								
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 5HP 190/380V 14.2/7.1A								SF1.0

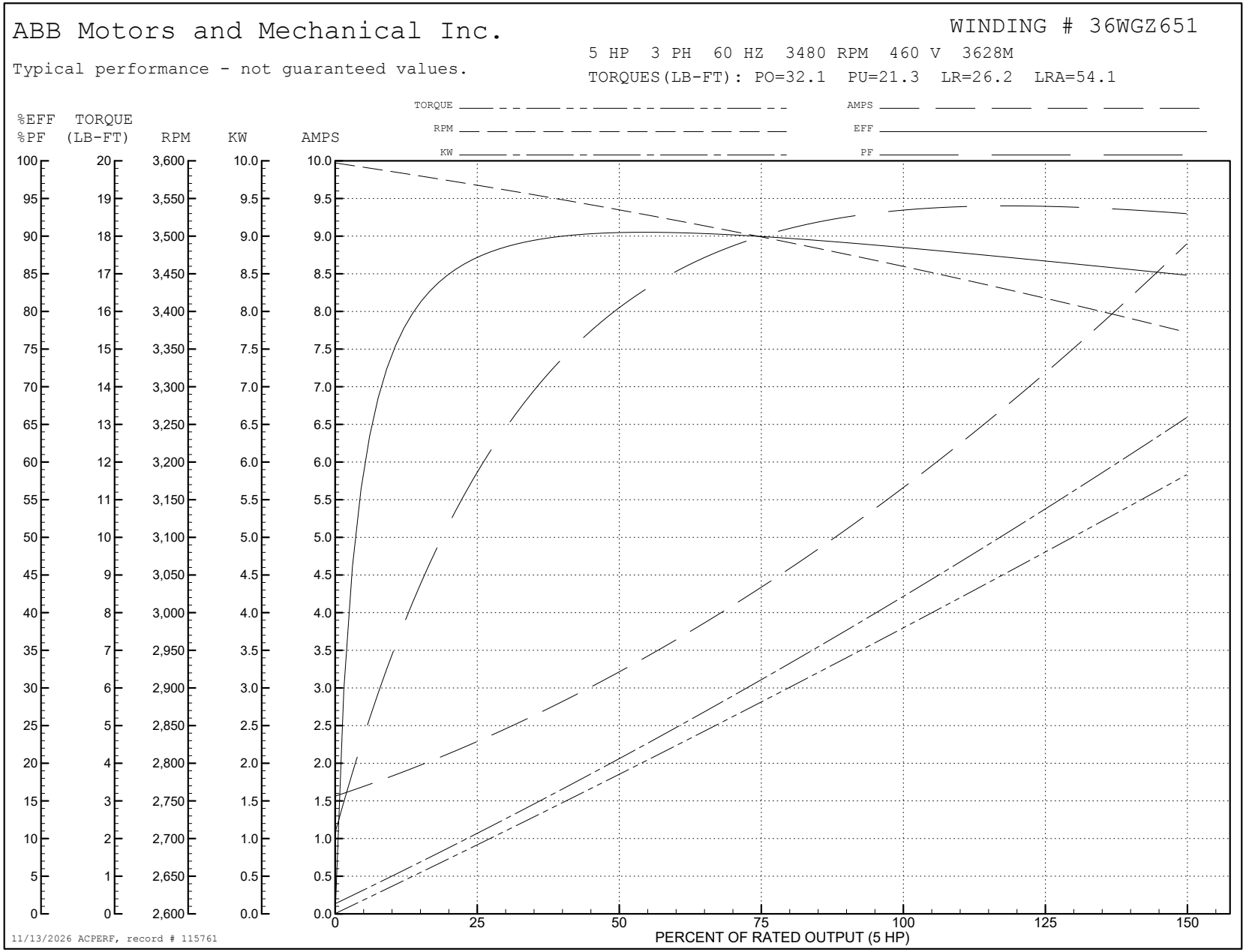
AC Induction Motor Performance Data
Record # 115761
Typical performance - not guaranteed values

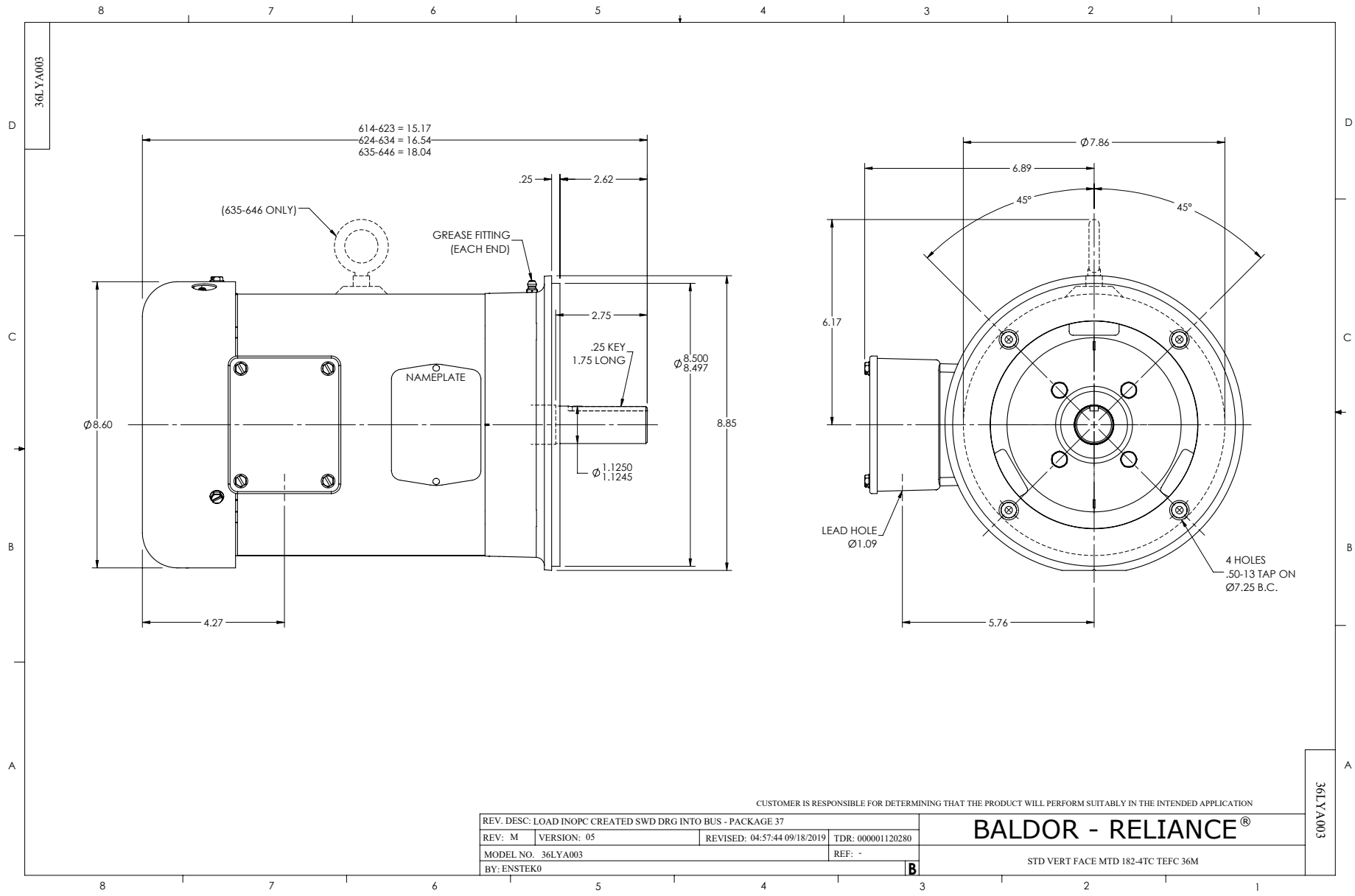
Winding: 36WGZ651-R001	**Type:** 3628M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.602 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			11.5/5.73	**Breakdown Torque**	32.1 LB-FT
R.P.M.			3480	**Pull-up Torque**	21.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	26.2 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	54.1 A
Service Factor (S.F.)			1.15	**No-load Current**	1.66 A
NEMA Nom. Eff.	88.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	2.821 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
S.F. Amps			13.2/6.61	**Temp. Rise @ S.F. Load**	95°C
				Locked-rotor Power Factor	48.1

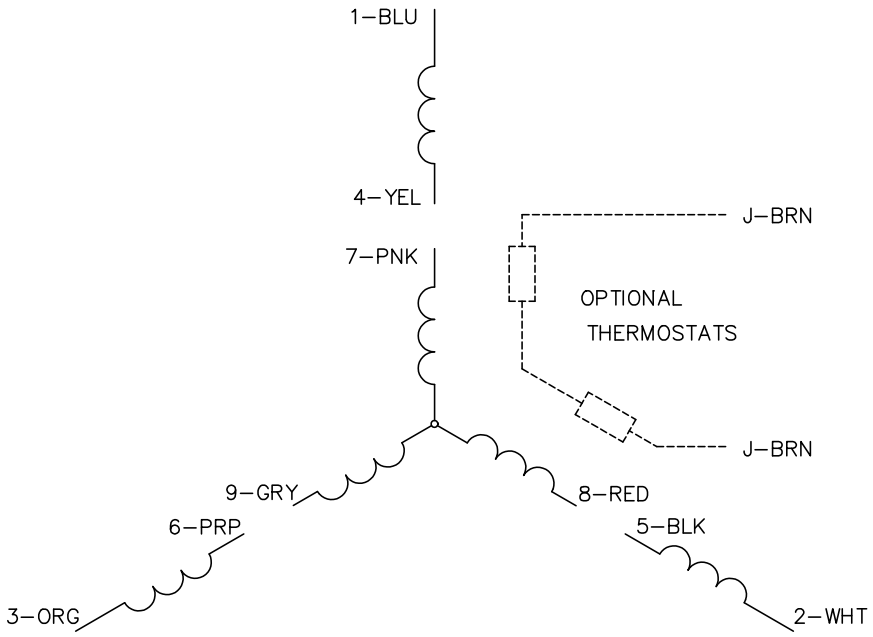
Load Characteristics 460 V, 60 Hz, 5 HP

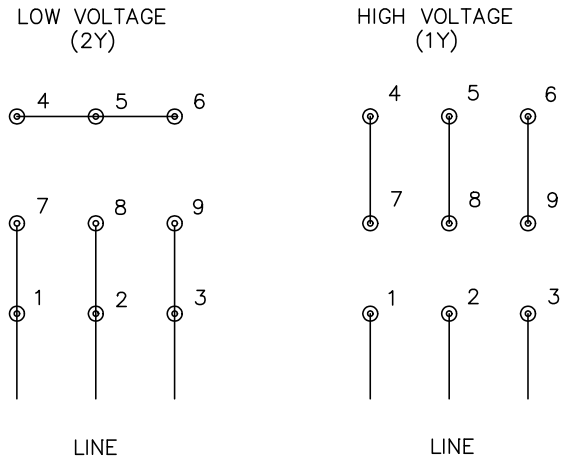
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	82	89	92	93	94	93
Efficiency	86.4	90	89.9	88.6	86.8	84.7	87.5
Speed	3566.6	3534.1	3499.1	3460.2	3417.5	3371.4	3435
Line amperes	2.16	3.16	4.37	5.75	7.25	8.84	6.65


ABB Motors and Mechanical Inc.
WINDING # 36WGZ651
Typical performance - not guaranteed values.
5 HP 3 PH 60 HZ 3480 RPM 460 V 3628M
TORQUES(LB-FT): PO=32.1 PU=21.3 LR=26.2 LRA=54.1
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/13/2026 ACPERF, record # 115761


36LYA003
614-623 = 15.17
624-634 = 16.54
635-646 = 18.04
.25
2.62
(635-646 ONLY)
GREASE FITTING
(EACH END)
2.75
.25 KEY
1.75 LONG
Ø8.500
8.497
NAMEPLATE
Ø8.60
8.85
Ø1.1250
1.1245
4.27
Ø7.86
6.89
45°
45°
6.17
LEAD HOLE
Ø1.09
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
5.76
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: M
VERSION: 05
REVISED: 04:57:44 09/18/2019
TDR: 000001120280
MODEL NO. 36LYA003
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
STD VERT FACE MTD 182-4TC TEFC 36M
36LYA003

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