ABB BALDOR RELIANCE

Customer information packet

VEDM3615T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3642M, TEFC, F1
Class - None
Division - Not Applicable

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9/7/2026 9:55:41 AM

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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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
Constant Torque Speed Range	6
Current @ Voltage	6.700 A @ 460.0 V
	13.900 A @ 208.0 V
	13.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	H
Type	AC
Mech. spec.	36Q733
Base	
Status	PRD/A
Elec. spec.	36WGS268
Layout	36LYQ733
Eff. date	06-24-2021
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-21-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
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	18.10 IN
Power Factor	78
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP3504								
CAT NO	VEDM3615T							
SPEC.	36Q733S268G1			**ENCL**	TEFC			
FRAME	184TC	**HP**	5					
VOLTS	230/460							
FLA	13.4/6.7			**I.P.**	56			
RPM	1750	**RPM MAX**	2700					
HZ	60	**PH**	3	**CLASS**	F			
SER.F.	1.15	**DES**	B	**CC**	010A			
NEMA-NOM-EFF	89.5							
RATING	40C AMB-CONT							
DE BRG	6206	**ODE BRG**	6205					
GREASE	POLYREX EM							
C HP FR	60	**C HP TO**	90					
CT HZ FROM	6	**CT HZ TO**	60	**VT HZ FROM**	6	**VT HZ TO**	60	
SER.NO								
	50C AT 1.0 SF							

AC Induction Motor Performance Data
Record # 55772
Typical performance - not guaranteed values

Winding: 36WGS268-R085	**Type:** 3642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	14.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13.4/6.7	**Breakdown Torque**	52.2 LB-FT
R.P.M.			1750	**Pull-up Torque**	31.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	34.9 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	49.1 A
Service Factor (S.F.)			1.15	**No-load Current**	3.24 A
NEMA Nom. Eff.	89.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	2.31 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	71°C
S.F. Amps				**Temp. Rise @ S.F. Load**	87°C
				Locked-rotor Power Factor	39.8
				Rotor inertia	0.391 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	60	72	78	83	83	81
Efficiency	84.9	89.7	90.3	89.8	88.8	87	89.2
Speed	1789.1	1776.2	1762.3	1749.7	1732.5	1714.3	1739
Line amperes	3.55	4.31	5.43	6.65	7.94	9.64	7.42

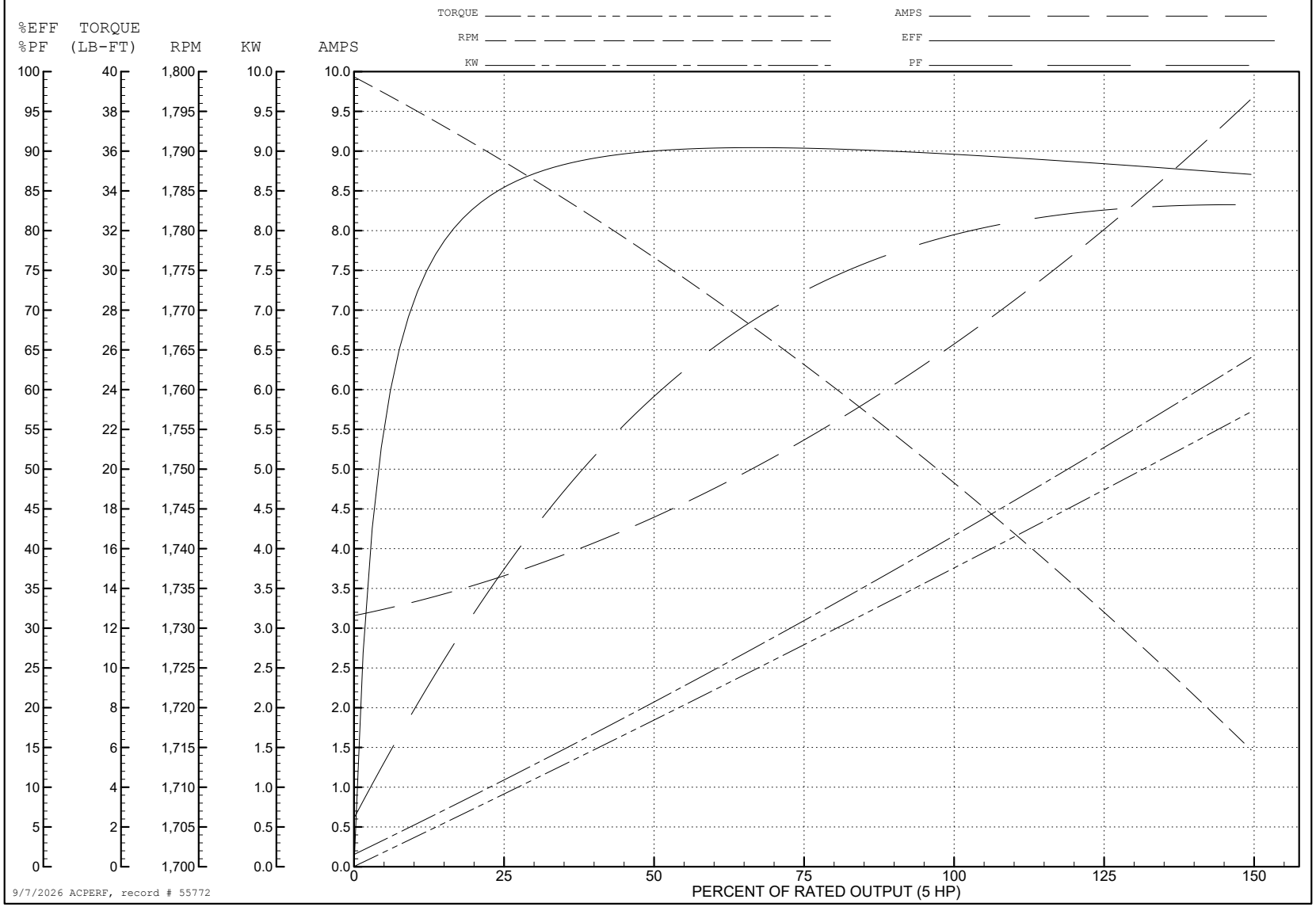
ABB Motors and Mechanical Inc.

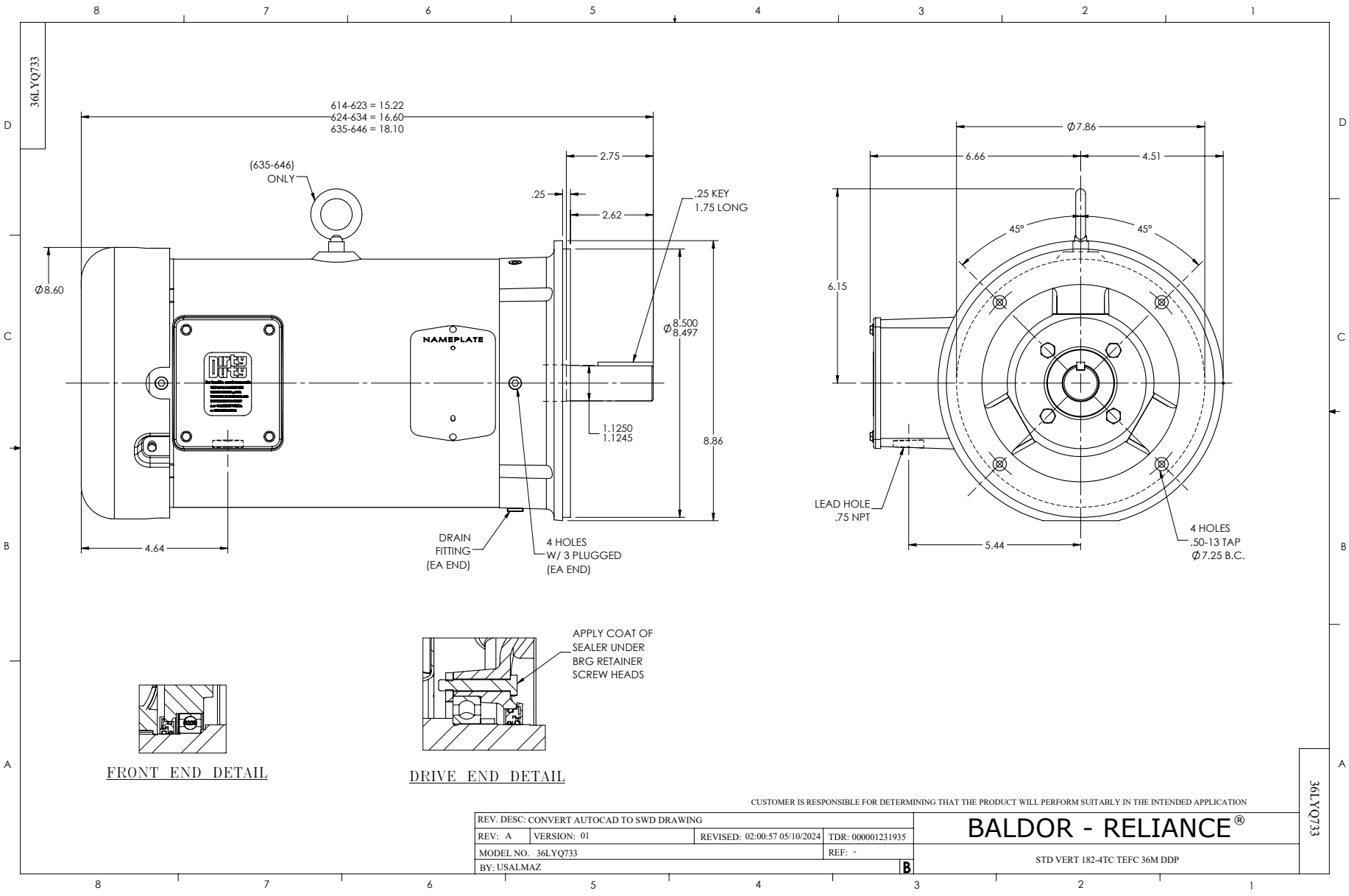
WINDING # 36WGS268

5 HP 3 PH 60 HZ 1750 RPM 460 V 3642M

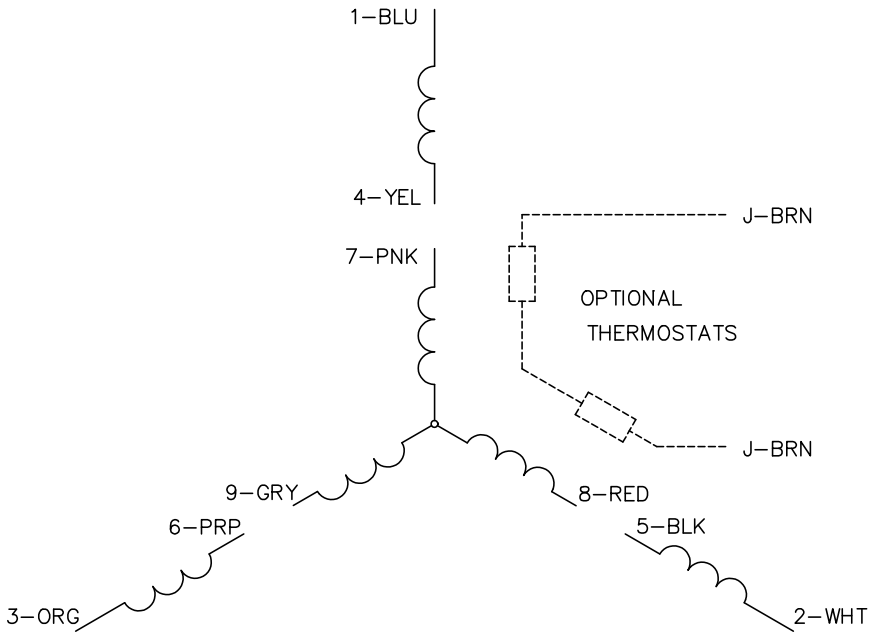
Typical performance - not guaranteed values.

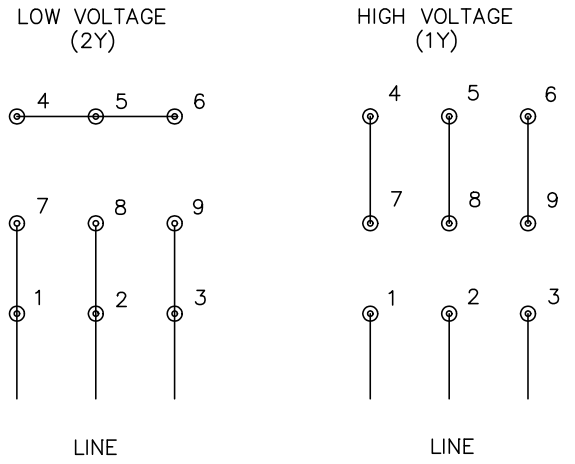
TORQUES(LB-FT): PO=52.2 PU=31.5 LR=34.9 LRA=49.1




36LYQ733
614-623 = 15.22
624-634 = 16.60
635-646 = 18.10
(635-646) ONLY
2.75
.25
2.62
.25 KEY
1.75 LONG
Ø8.60
NAMEPLATE
Ø8.500
8.497
1.1250
1.1245
8.86
4.64
DRAIN FITTING (EA END)
4 HOLES W/ 3 PLUGGED (EA END)
Ø7.86
6.66
4.51
45°
45°
6.15
LEAD HOLE .75 NPT
5.44
4 HOLES .50-13 TAP Ø7.25 B.C.
APPLY COAT OF SEALER UNDER BRG RETAINER SCREW HEADS
FRONT END DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: A
VERSION: 01
REVISED: 02:00:57 05/10/2024
TDR: 000001231935
MODEL NO. 36LYQ733
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT 182-4TC TEFC 36M DDP
36LYQ733

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