ABB BALDOR RELIANCE

Customer information packet

VM3615T

5HP, 1745RPM, 3PH, 60HZ, 184TC, 3634M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	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
Current @ Voltage	6.800 A @ 460.0 V
	14.200 A @ 208.0 V
	13.600 A @ 230.0 V
Design Code	A
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	F
Type	AC
Mech. spec.	36A003
Base	
Status	NLA/A
Elec. spec.	36WGS543
Layout	36LYA003
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-30-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	6.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
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	3634M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.55 IN
Power Factor	78
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1745 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

	NP1256L							
CAT.NO.	VM3615T							
SPEC.	36A003S543H1							
HP	5							
VOLTS	208-230/460							
AMP	14.2-13.6/6.8							
RPM	1745							
FRAME	184TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	J	**DES**	A	**CLASS**	F	
NEMA-NOM-EFF	87.5	**PF**	78					
RATING	40C AMB-CONT							
CC	010A							
DE	6206	**ODE**	6205					
ENCL	TEFC	**SN**						

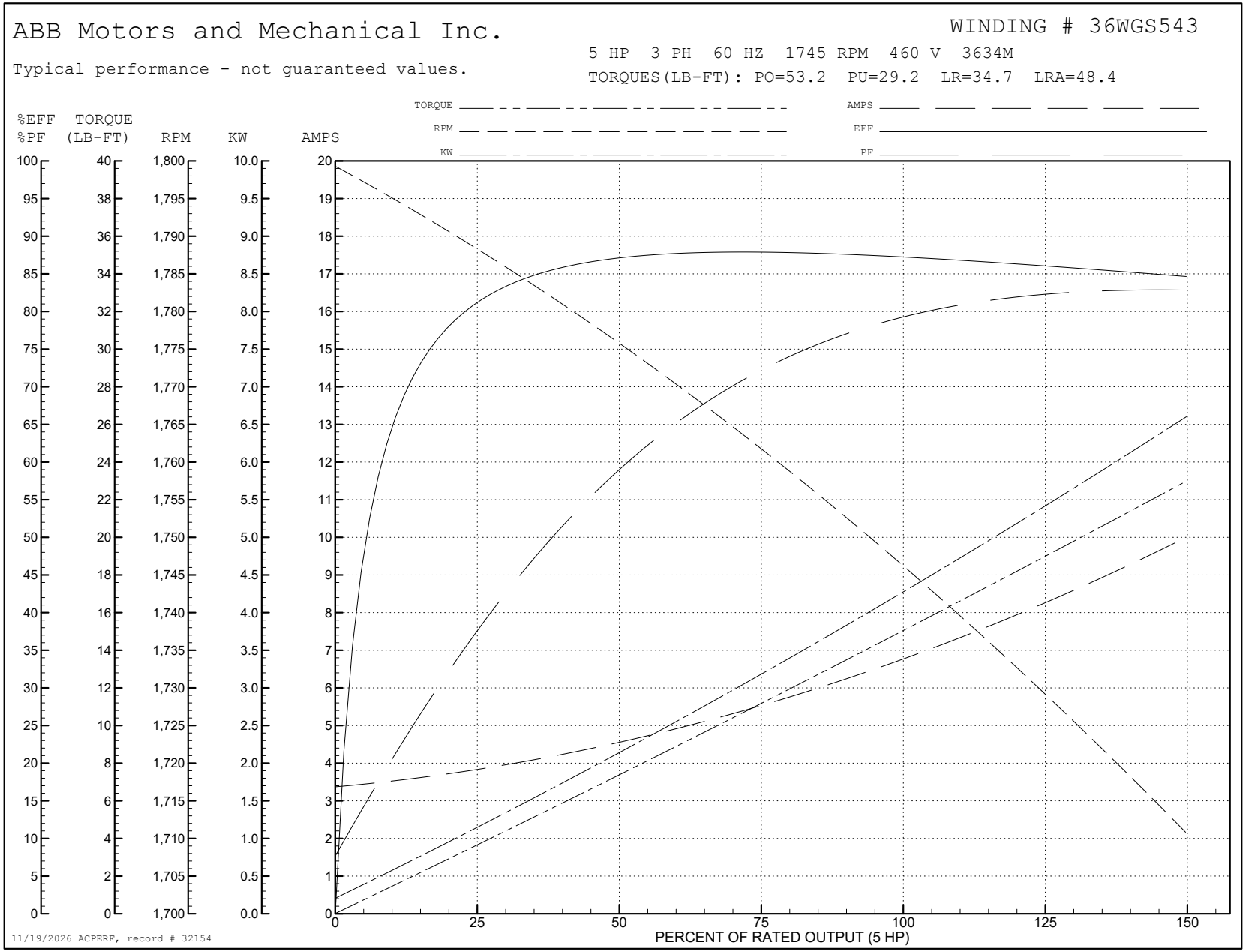
AC Induction Motor Performance Data
Record # 32154
Typical performance - not guaranteed values

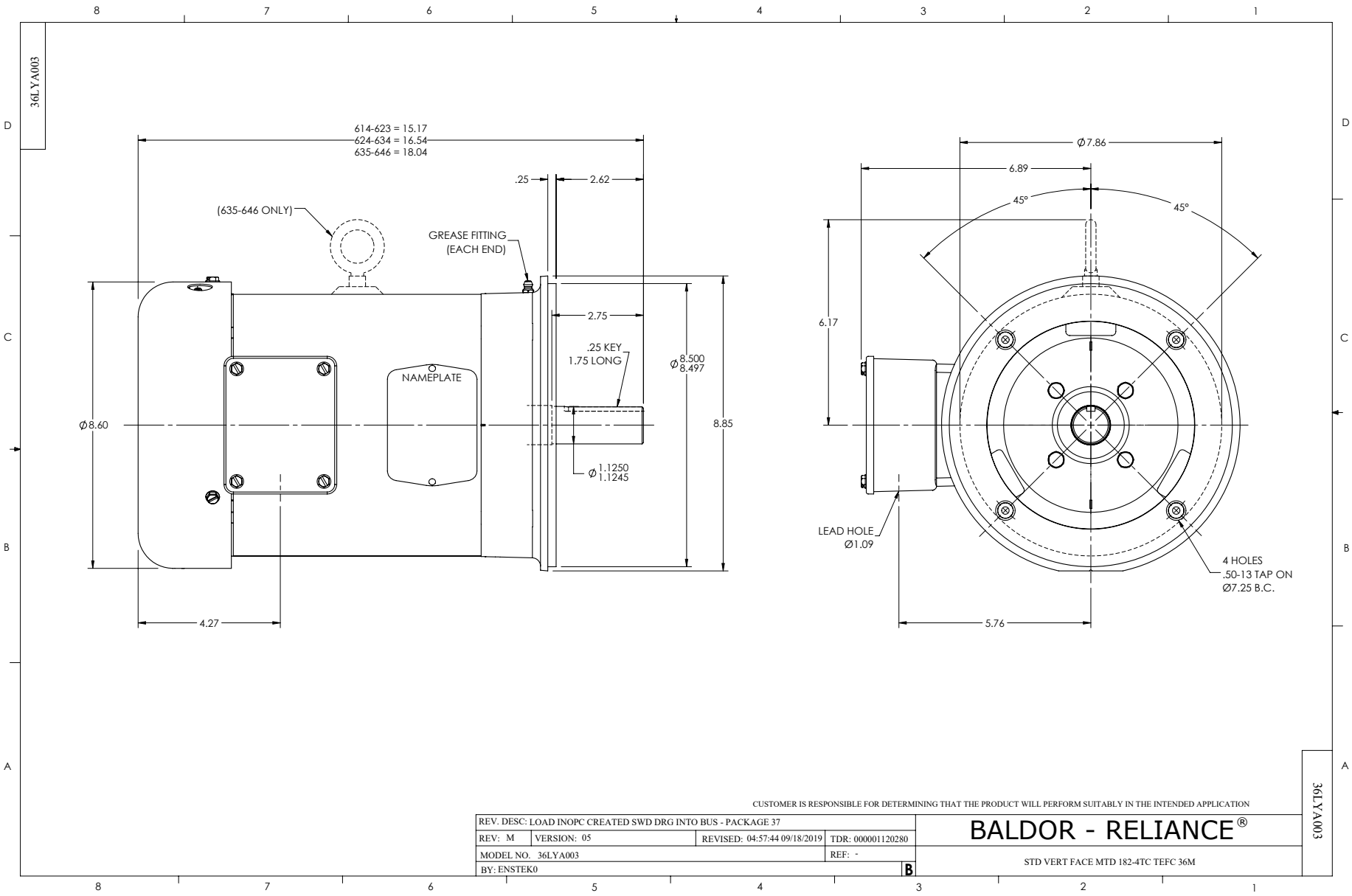
Winding: 36WGS543-R001	**Type:** 3634M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			14.2-13.6/6.8	**Breakdown Torque**	53.2 LB-FT
R.P.M.			1745	**Pull-up Torque**	29.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	34.7 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	48.4 A
Service Factor (S.F.)			1.15	**No-load Current**	3.42 A
NEMA Nom. Eff.	87.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	2.6196 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps				**Temp. Rise @ S.F. Load**	96°C
				Locked-rotor Power Factor	42
				Rotor inertia	0.317 LB-FT2

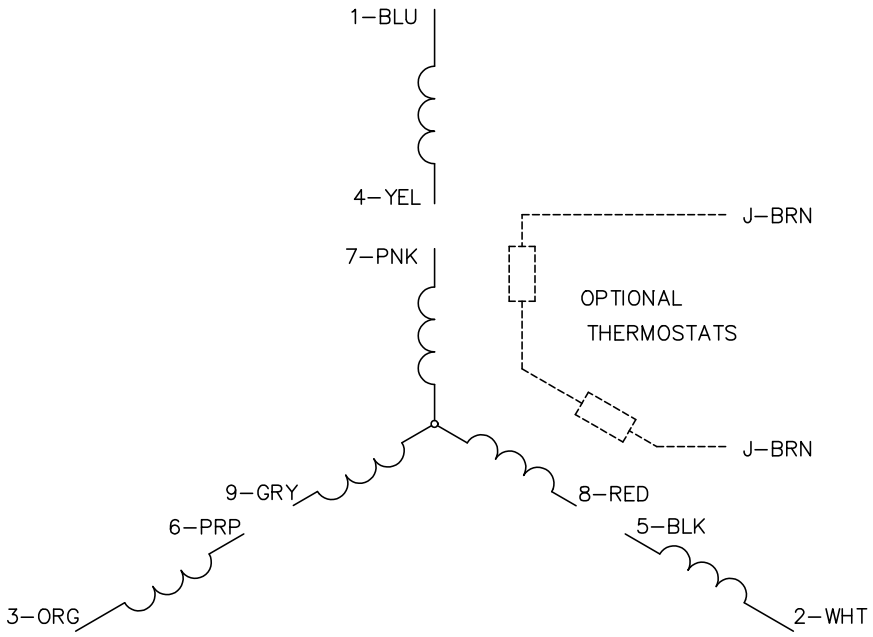
Load Characteristics 460 V, 60 Hz, 5 HP

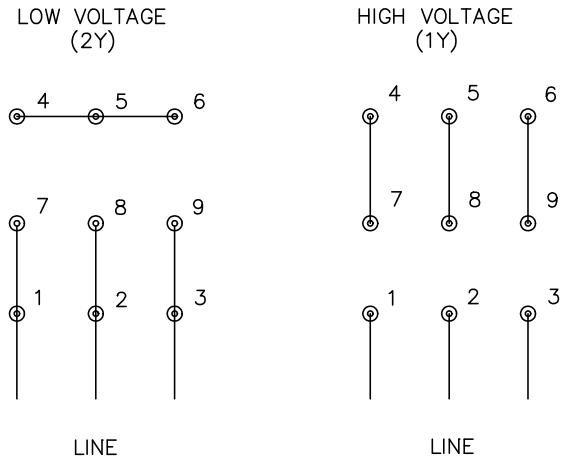
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	59	72	78	82	83	80
Efficiency	80.9	87.1	88.3	87.8	86.6	84.7	87.1
Speed	1788.2	1775.7	1761.9	1747.1	1729.5	1710.5	1737
Line amperes	3.77	4.5	5.5	6.83	8.24	9.97	7.68


ABB Motors and Mechanical Inc.
WINDING # 36WGS543
5 HP 3 PH 60 HZ 1745 RPM 460 V 3634M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=53.2 PU=29.2 LR=34.7 LRA=48.4
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/19/2026 ACPERF, record # 32154


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