



Customer information packet

VEBM3615T-D

5HP, 1755RPM, 3PH, 60HZ, 184TC, 3642M, TEFC, F1

Class - None

Division - Not Applicable

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	CE CURUSEEV NEMA PREMIUM UKCA WEEE
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	6.700 A @ 460.0 V 14.000 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
Feedback Device	NO FEEDBACK

Part detail

Revision	F
Type	AC
Mech. spec.	36M111
Base	
Status	PRD/A
Elec. spec.	36WGQ032
Layout	36LYM111
Eff. date	10-01-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	12-04-2020

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	3642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.14 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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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

NP2934L									
CAT.NO.	VEBM3615T-D								
SPEC.	36M111Q032G1								
HP	5/3.7KW 43KG								
VOLTS	230/460 IC411								
AMP	13.4/6.7 IP44								
R.P.M. (1/MIN)	1755								
FRAME	184TC		HZ	60		PH	3		
SER.F.	1.15		CODE	J		DES	B	CL	F
NEMA-NOM-EFF	89.5		PF	78					
RATING	40C AMB-S1 CONT								
CC	010A								
DE	6206		ODE	6205					
ENCL	TEFC		SN						
	IE3-90.1(75%)89.4(50%)								

AC Induction Motor Performance Data

Record # 89917

Typical performance - not guaranteed values

Winding: 36WGQ032-R001			Type: 3642M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		5	Full Load Torque		15 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		13.4/6.7	Breakdown Torque		53.1 LB-FT			
R.P.M.		1755	Pull-up Torque		23.4 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		34.7 LB-FT		
NEMA Design Code		B	KVA Code	J	Starting Current		49.8 A	
Service Factor (S.F.)		1.15		No-load Current		3.31 A		
NEMA Nom. Eff.		89.5	Power Factor		78	Line-line Res. @ 25°C		2.4 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		71°C		
S.F. Amps				Temp. Rise @ S.F. Load		86°C		
				Locked-rotor Power Factor		40.6635		
				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	38	60	72	79	82	84	81
Efficiency	83.8	88.9	89.8	89.5	88.4	86.8	88.8
Speed	1789	1778	1766	1753	1738	1722	1744
Line amperes	3.64	4.39	5.45	6.66	8.08	9.67	7.51

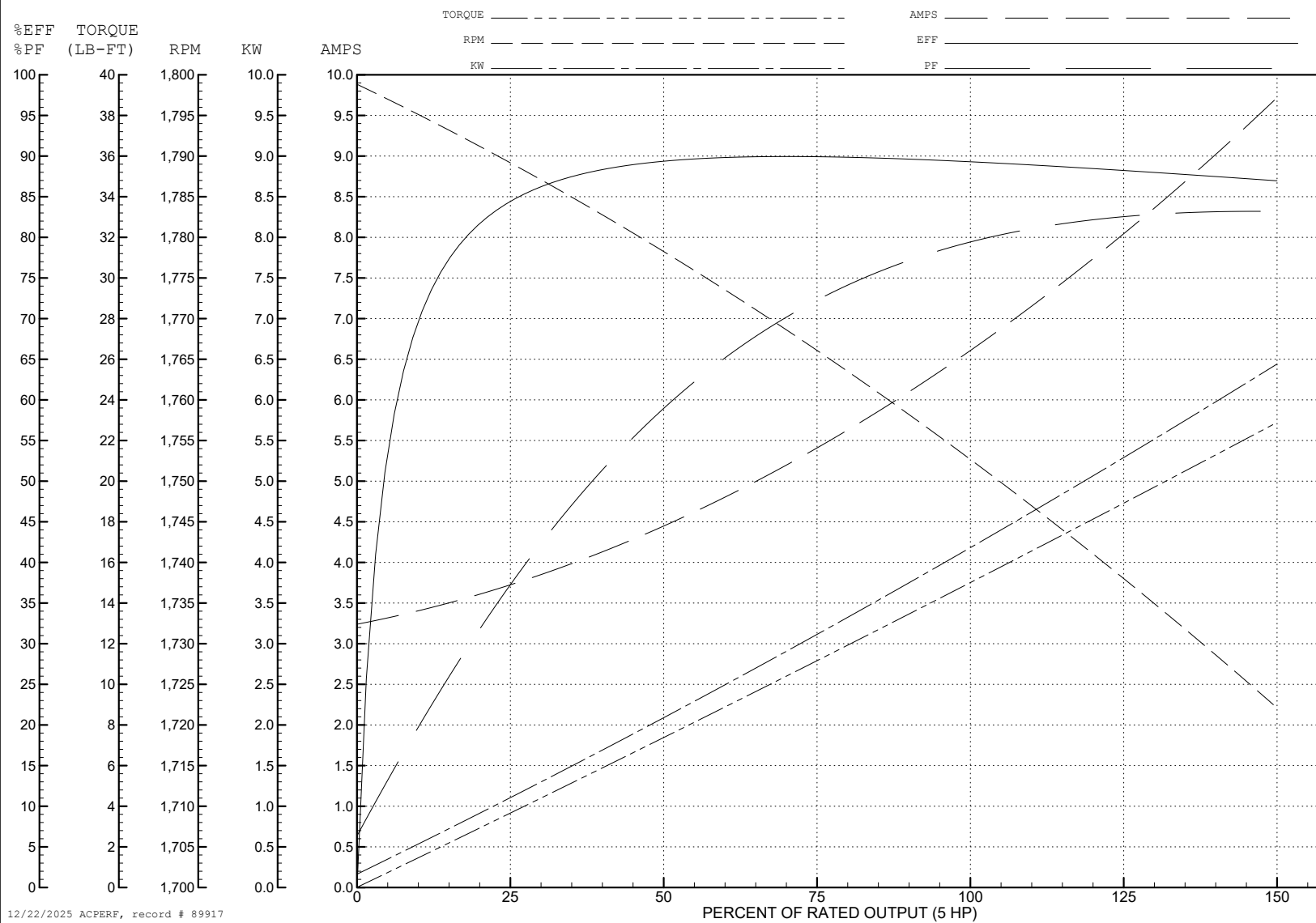
ABB Motors and Mechanical Inc.

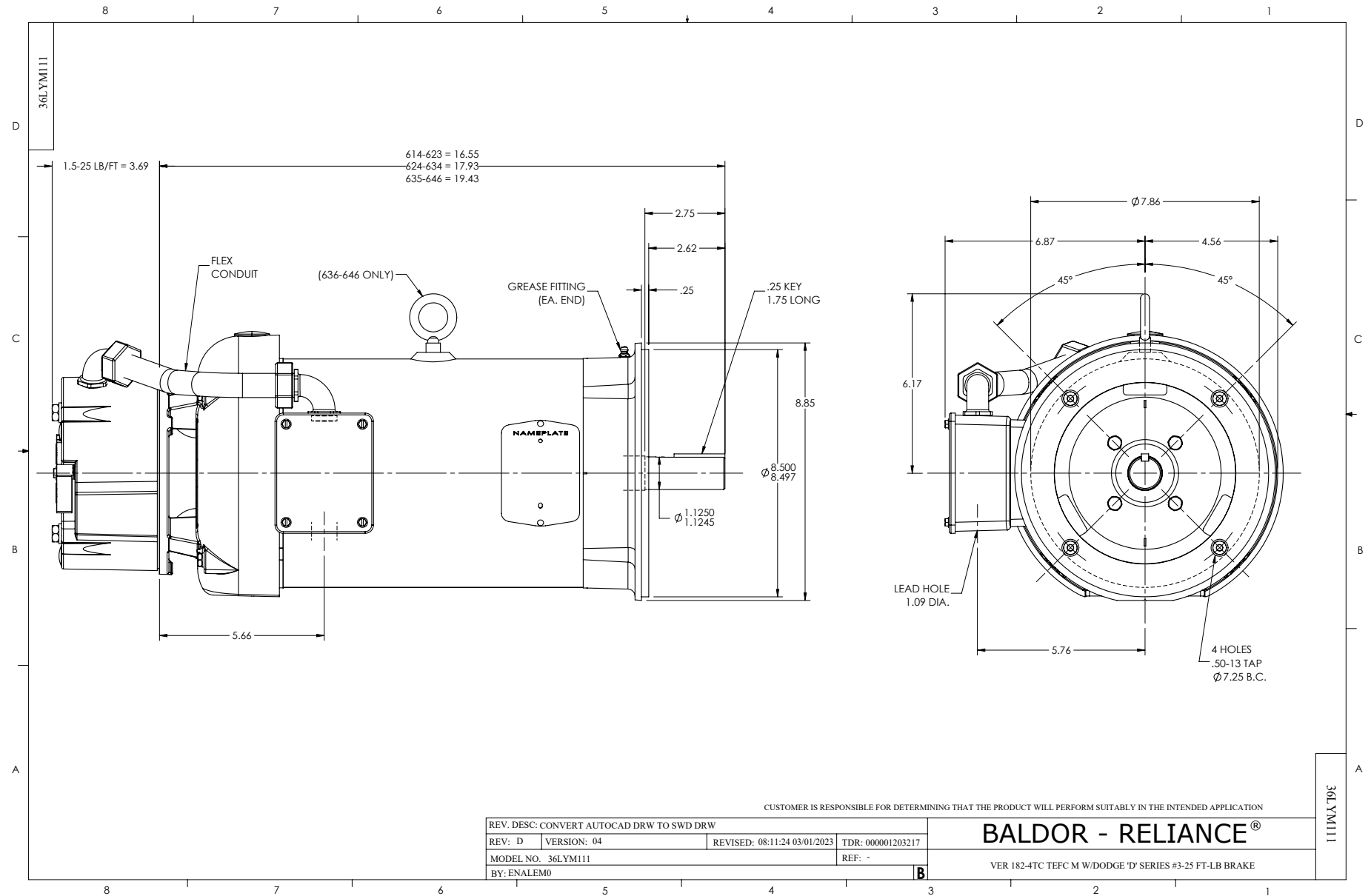
WINDING # 36WGQ032

Typical performance - not guaranteed values.

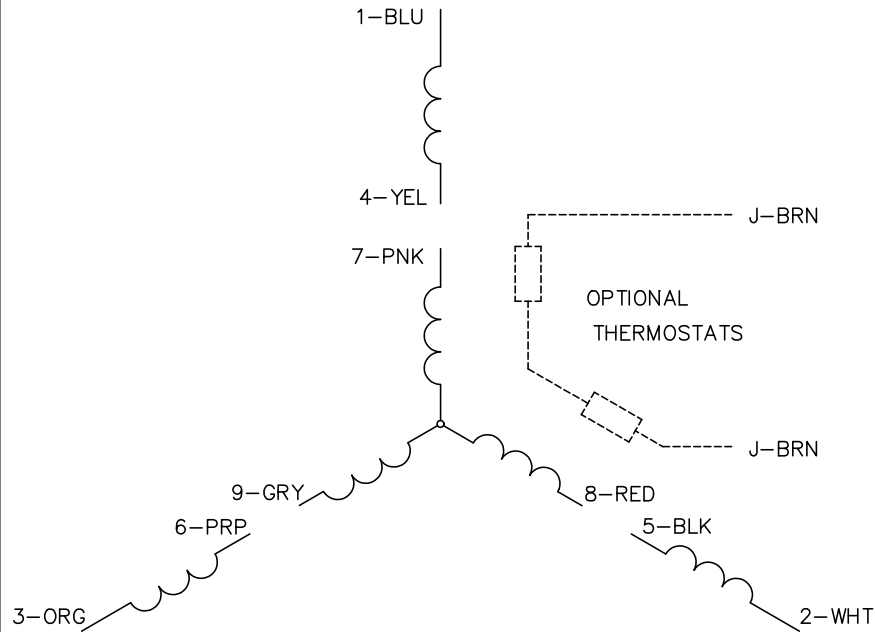
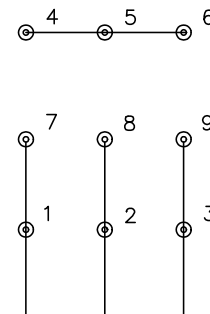
5 HP 3 PH 60 HZ 1755 RPM 460 V 3642M

TORQUES (LB-FT): PO=53.1 PU=23.4 LR=34.7 LRA=49.8

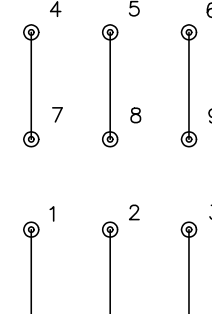




CD0005

LOW VOLTAGE
(2Y)

LINE

HIGH VOLTAGE
(1Y)

LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E

BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

S00000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005

CD2120

WIRING CONNECTIONS (1 PHASE VAC)

	POWER LINE A	POWER LINE B	CAP TOGETHER	CAP ALONE
AC LOW VOLT.	B1	B2	B3 & B5	B4
AC HIGH VOLT.	B1 & B5	B2	---	B3 CAP ALONE B4 CAP ALONE
DC VOLT.	B1	B2	B3 & B5	B4
				B1 WHITE B2 BLACK B3 GRAY B4 BLUE B5 RED

CD2120

REV. DESC: NEW

REV. LTR: -

VERSION: 00

TDR: 000000741785

FILE: \CKA\00037\282

REVISED: 12: 28: 11 04/12/2012

MTL: -

BY: CKRONSO

BALDOR • DODGE • RELIANCE

D-SERIES MOTOR BRAKE 5LD AC\DC

SH 1 of 1