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# Customer information packet

## VEBM3714T-D

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3752M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CE CURUSEEV NEMA PREMIUM UKCA WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	27.000 A @ 208.0 V 25.000 A @ 230.0 V 12.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

## Part detail

Revision	C
Type	AC
Mech. spec.	37M909
Base	
Status	PRD/A
Elec. spec.	37WGL865
Layout	37LYM909
Eff. date	09-07-2023
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-29-2021

<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	12.5 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	9 @ 14 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3752M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	27.67 IN
<b>Power Factor</b>	85
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.375 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1770 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP2934L</b>							
<b>CAT.NO.</b>	VEBM3714T-D						
<b>SPEC.</b>	37M909L865G1						
<b>HP</b>	10/7.5KW IP44 IC411						
<b>VOLTS</b>	230/460						
<b>AMP</b>	25/12.5						
<b>R.P.M. (1/MIN)</b>	1770						
<b>FRAME</b>	215TC	<b>HZ</b>	60	<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES</b>	A	<b>CL</b>	F
<b>NEMA-NOM-EFF</b>	91.7	<b>PF</b>	85				
<b>RATING</b>	40C AMB-CONT						
<b>CC</b>	010A						
<b>DE</b>	6307	<b>ODE</b>	6206				
<b>ENCL</b>	TEFC	<b>SN</b>					
	IE3-92.7(75%)92.3(50%)						

**AC Induction Motor Performance Data**

Record # 85459

Preliminary Data Sheet

<b>Winding:</b> 37WGL865-R001		<b>Type:</b> 3752M		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	10	<b>Full Load Torque</b>	29.7 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	25.0/12.5	<b>Breakdown Torque</b>	102 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	46.9 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	62.2 LB-FT	
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	K	<b>Starting Current</b>	101 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	5.33 A	
<b>NEMA Nom. Eff.</b>	91.7	<b>Power Factor</b>	85	<b>Line-line Res. @ 25°C</b>	0.982 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	69°C	
<b>S.F. Amps</b>	28.4/14.2		<b>Temp. Rise @ S.F. Load</b>	92°C	
			<b>Locked-rotor Power Factor</b>	42	
			<b>Rotor inertia</b>	1.28 lb-ft <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 10 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	44	66	77	82	84	85	84
<b>Efficiency</b>	88.7	92.3	92.7	92.2	91.3	90	91.4
<b>Speed</b>	1793	1786	1778	1770	1761	1751	1762
<b>Line amperes</b>	6.05	7.73	9.9	12.5	15.3	18.3	14.1

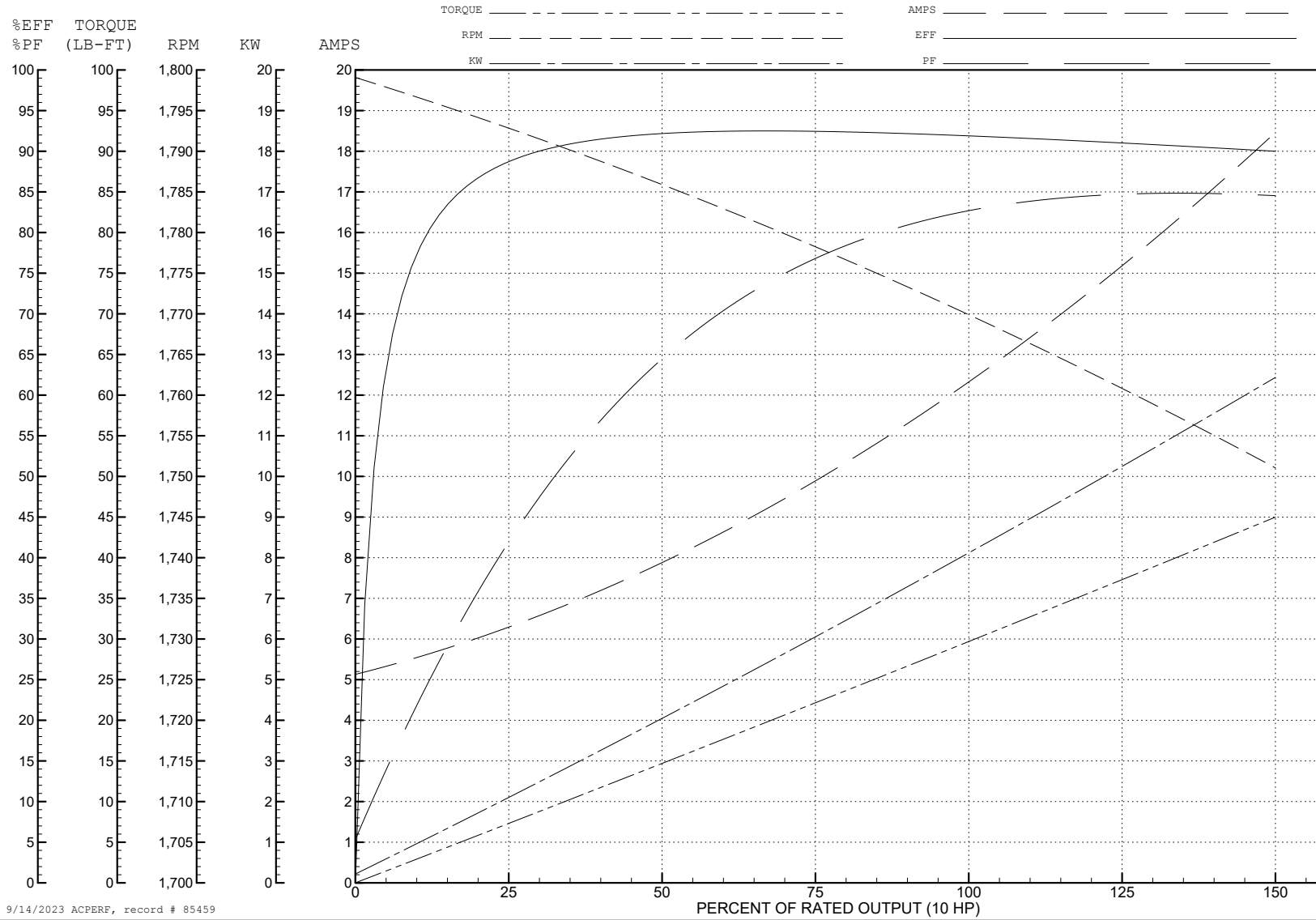
ABB Motors and Mechanical Inc.

WINDING # 37WGL865

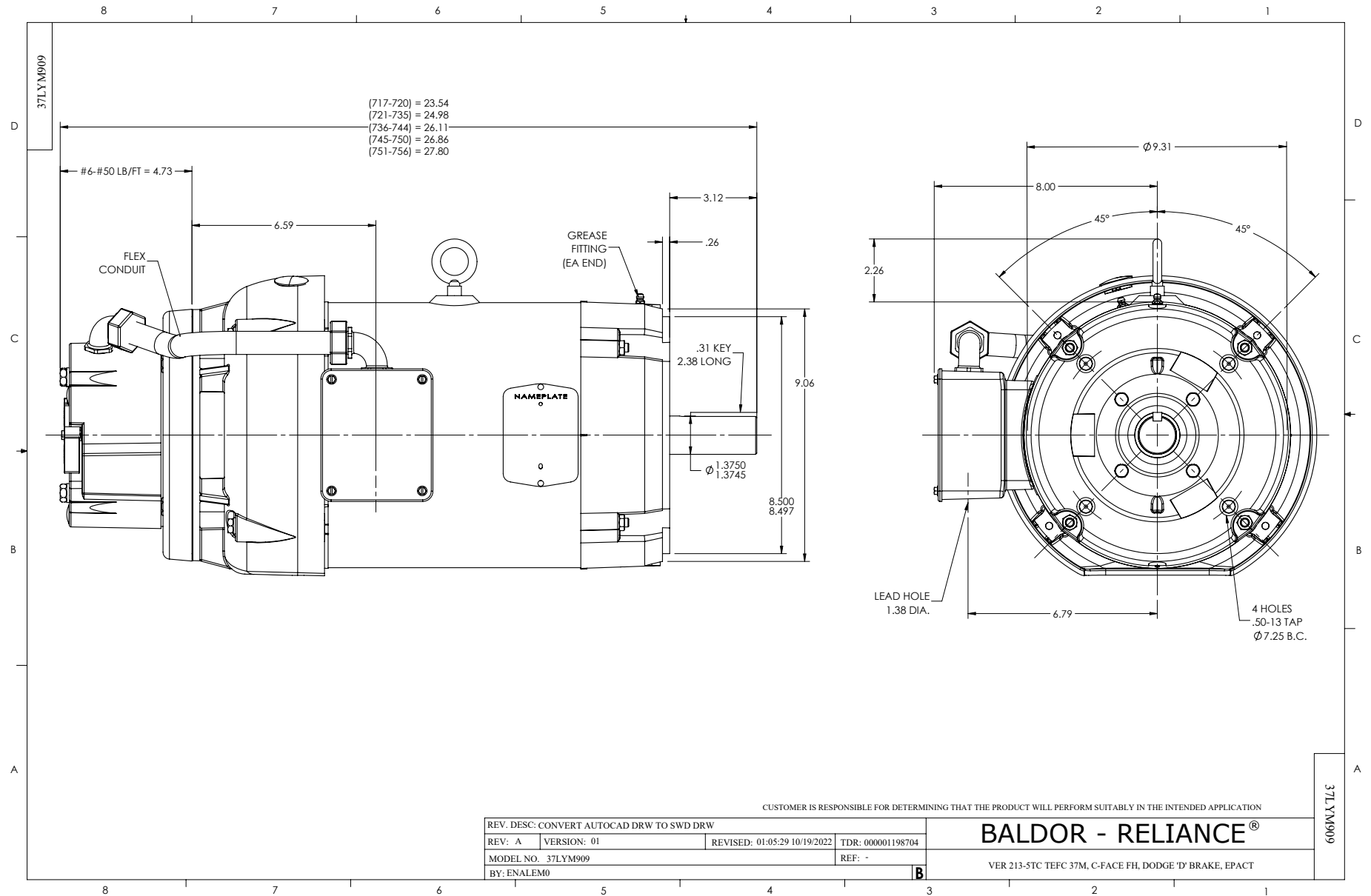
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3752M

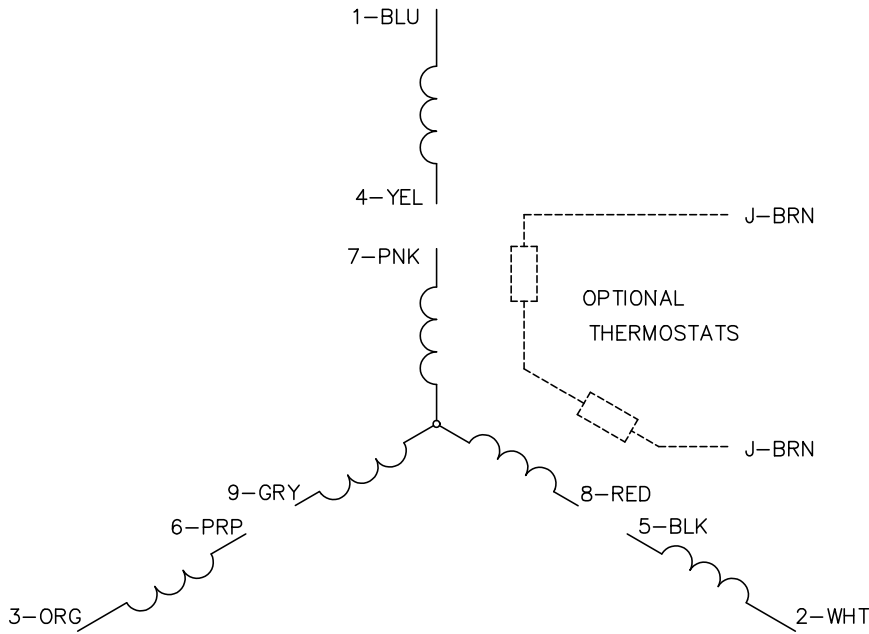
TORQUES (LB-FT): PO=102 PU=46.9 LR=62.2 LRA=101



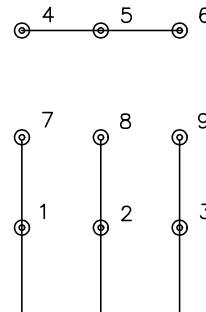
9/14/2023 ACPERF, record # 85459



CD0005

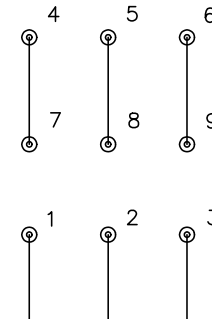


LOW VOLTAGE  
(2Y)



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.

CD0005

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



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