



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
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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
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	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	D
Type	AC
Mech. spec.	37M909
Base	
Status	PRD/A
Elec. spec.	37WGL865
Layout	37LYM909
Eff. date	09-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-29-2021

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.67 IN
Power Factor	85
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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.	VEBM3714T-D										
SPEC.	37M909L865G1										
HP	10/7.5KW IP44 IC411										
VOLTS	230/460 80KG										
AMP	25/12.5										
R.P.M. (1/MIN)	1770										
FRAME	215TC		HZ	60		PH	3				
SER.F.	1.15	CODE	K	DES	A	CL	F				
NEMA-NOM-EFF	91.7	PF	85								
RATING	40C AMB-CONT										
CC	010A										
DE	6307	ODE	6206								
ENCL	TEFC	SN									
IE3-92.7(75%)92.3(50%)											

AC Induction Motor Performance Data

Record # 85459

Preliminary Data Sheet

Winding: 37WGL865-R001			Type: 3752M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		29.7 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		25/12.5	Breakdown Torque		102 LB-FT		
R.P.M.		1770	Pull-up Torque		46.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		62.2 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		101 A
Service Factor (S.F.)		1.15	No-load Current		5.33 A		
NEMA Nom. Eff.		91.7	Power Factor	85	Line-line Res. @ 25°C		0.957 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		69°C
S.F. Amps					Temp. Rise @ S.F. Load		86°C
					Locked-rotor Power Factor		35.8
					Rotor inertia		1.28 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	77	81	84	85	84
Efficiency	88.4	91.8	92.4	92.1	91	89.9	91.4
Speed	1793	1786	1778	1770	1761	1751	1762
Line amperes	6.05	7.73	9.9	12.5	15.3	18.3	14.1

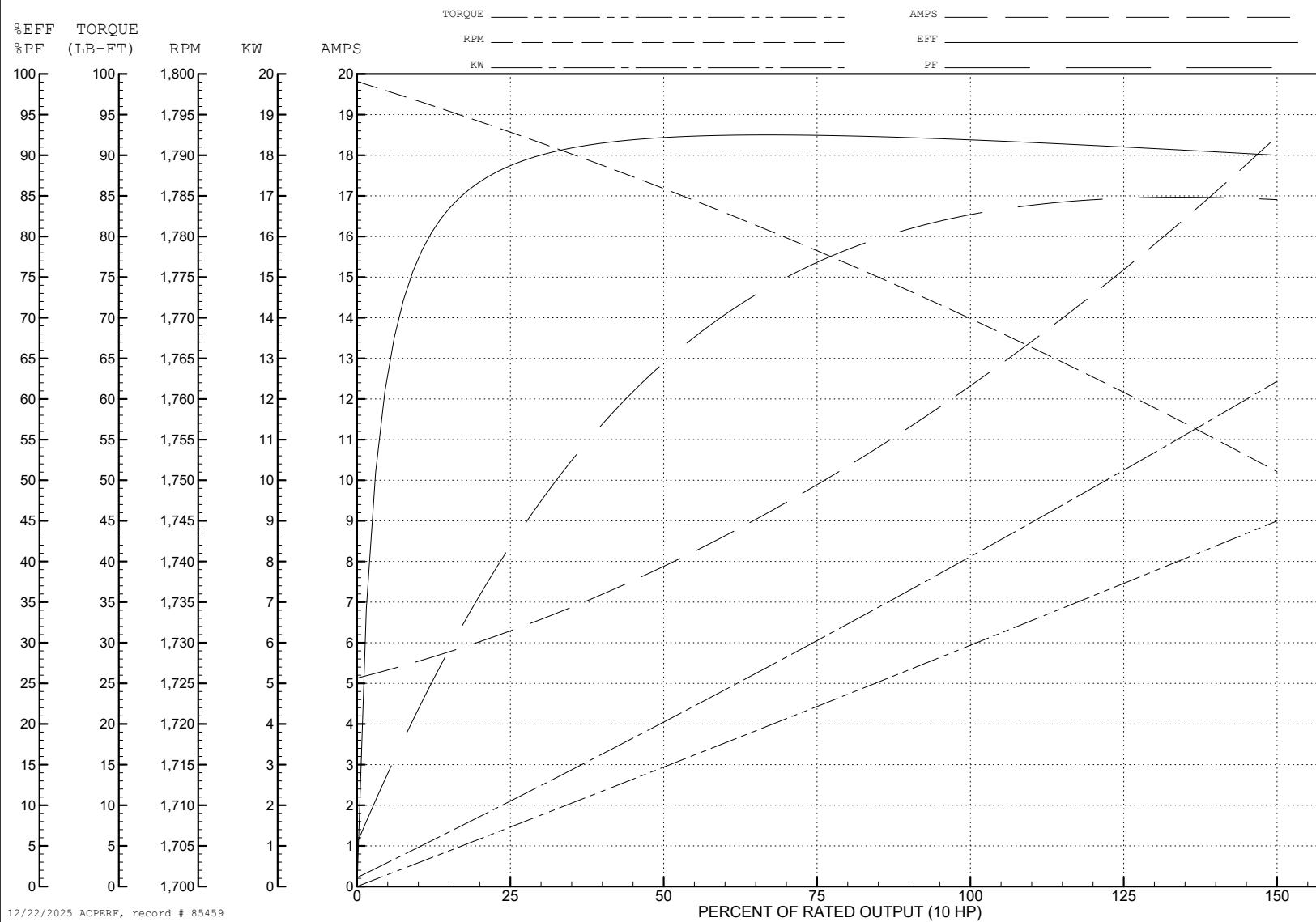
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WINDING # 37WGL865

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



AC Induction Motor Performance Data

Record # 114664

Typical performance - not guaranteed values

Winding: 37WGL865-R001			Type: 3752M		Enclosure: TEFC		
Nameplate Data				400 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5		Full Load Torque		22.28 LB-FT	
Volts		200/400		Start Configuration		direct on line	
Full Load Amps		21.4/10.7		Breakdown Torque		76.4 LB-FT	
R.P.M.		1770		Pull-up Torque		34.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		46.1 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		86.8 A
Service Factor (S.F.)		1.15		No-load Current		4.39 A	
NEMA Nom. Eff.		91.7	Power Factor	82	Line-line Res. @ 25°C		0.957 Ω
Rating - Duty		50C AMB-CONT		Temp. Rise @ Rated Load		51°C	
S.F. Amps		24.3/12.15		Temp. Rise @ S.F. Load		63°C	
				Locked-rotor Power Factor		35.8	
				Rotor inertia		1.28 lb-ft²	

Load Characteristics 400 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	68	78	82	85	86	84
Efficiency	87.7	91.5	92.1	92	90.9	89.8	91.3
Speed	1793	1786	1778	1770	1761	1751	1765
Line amperes	5.04	6.54	8.4	10.69	13.11	15.73	12.1

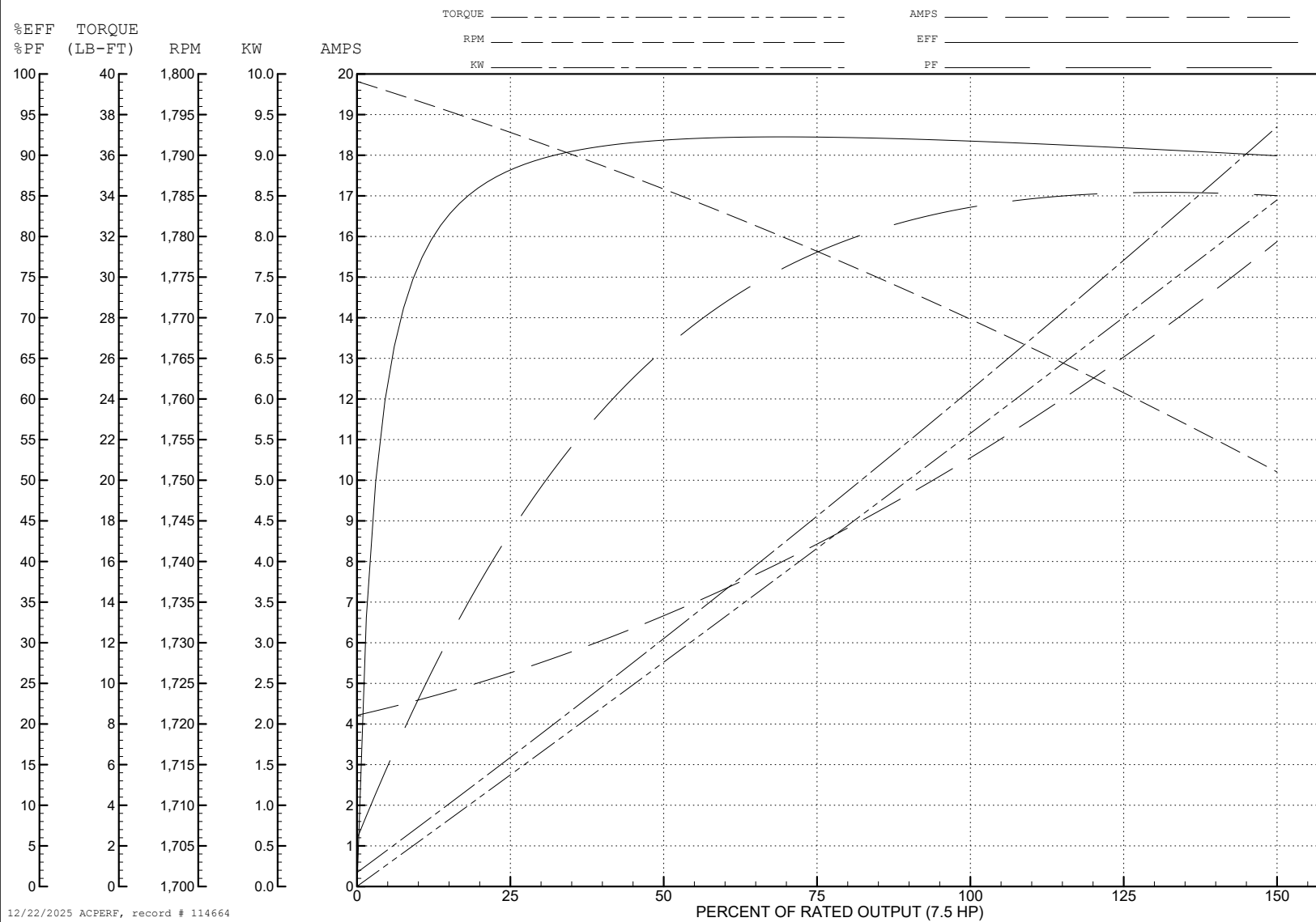
ABB Motors and Mechanical Inc.

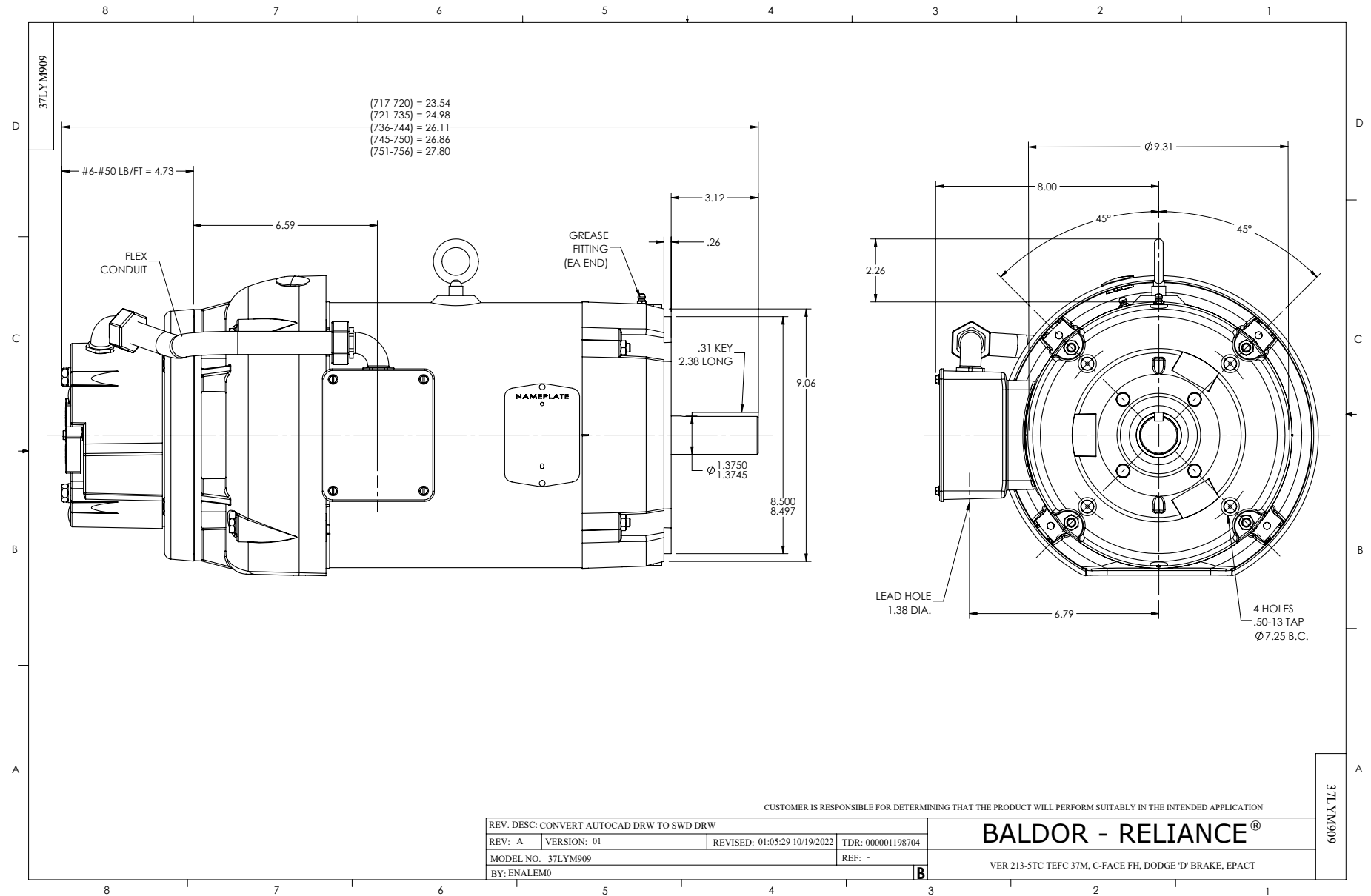
WINDING # 37WGL865

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 400 V 3752M

TORQUES (LB-FT): PO=76.4 PU=34.8 LR=46.1 LRA=86.8







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

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