

ABB BALDOR RELIANCE III

Customer information packet

VEBM3714T-D

10 /7.5KWHP, 1768RPM, 3PH, 60HZ, 215TC, 3750M

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 24.800 A @ 230.0 V 12.400 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	A
Type	AC
Mech. spec.	37M909
Base	
Status	PRD/A
Elec. spec.	37WGZ711
Layout	37LYM909
Eff. date	07-18-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-05-2025

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.4 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	3750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.86 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
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1768 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.	37M909Z711G1								
HP	10 /7.5KW								
VOLTS	230/460								
AMP	24.8/12.4								
R.P.M. (1/MIN)	1768								
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		IP44 IC411 80KG						
DE	6307		ODE	6206					
ENCL	TEFC		SN						
	IE3-92.7(75%)92.3(50%)								

Parts List

Part number	Description	Quantity
SA443078	SA 37M909Z711G1	1.000 ea
RA435574	RA 37M909Z711G1	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3006A12	37 CB 1.38 DIA @ 6:00, .88 DIA @ 12:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
07EP1901A07	FREP, 07FH1002A09 ASS'Y ALSO REQUIRED	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3300A01	PUEP ASSEMBLY FOR ROUTING	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
BR2004E01	BRK HUB,1.12 DIA JRNL W/.25 KEY (032416)	1.000 ea
WD5133A26	10" - .50 FLEX TUBING ASSY W/2 - 90 DEG	1.000 ea
WD4006A01	WIRE JOINT,T&B RB-4 OR RB-44	1.000 ea
HA6A33A01	ADAPTER 182-4T FOR D-SERIES BRK (024448)	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH1002A09	FN CVR, 07EP1901A07 ASLO REQUIRED	1.000 ea
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
10XN3118A52	5/16-18 X 3-1/4 HEX HEAD CAP SCR,GR.5,Z/	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HA1103A13	#4 X 4 SCREEN FOR FAN CVR 07FH1002 (MR21	1.000 ea
13XT0832A07	8-32X7/16 TYP 23 PAN HD SLT DX	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea

85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1419	CONNECTION LABEL	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
MG1000N49	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.028 ga
HA3104A18	THRUBOLT- 5/16-18 X14.000	4.000 ea
46BK0700B01	DBSC-V-35-MA-230/460 VAC	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP2934L	ALUM SUPER-E UL CE UKCA WEEE CC PREM	1.000 ea
37PA1039	PALLET PACK GROUP, BLANK PK1148	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 115760

Typical performance - not guaranteed values

Winding: 37WGZ711-R001			Type: 3750M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10	Full Load Torque		29.79 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		24.8/12.4	Breakdown Torque		93.4 LB-FT	
R.P.M.		1768	Pull-up Torque		44.7 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		55.5 LB-FT	
NEMA Design Code		A KVA Code	Starting Current		90.5 A	
Service Factor (S.F.)		1.15	No-load Current		5.11 A	
NEMA Nom. Eff.		91.7 Power Factor	Line-line Res. @ 25°C		1.1801 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		77°C	
S.F. Amps		28.2/14.1	Temp. Rise @ S.F. Load		108°C	
			Locked-rotor Power Factor		37.2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	68	78	82	85	85	84
Efficiency	89.9	92.6	92.6	91.8	90.5	88.9	91
Speed	1792.4	1785	1776.3	1767.2	1756.7	1745.2	1756
Line amperes	5.83	7.54	9.79	12.4	15.3	18.6	14.2

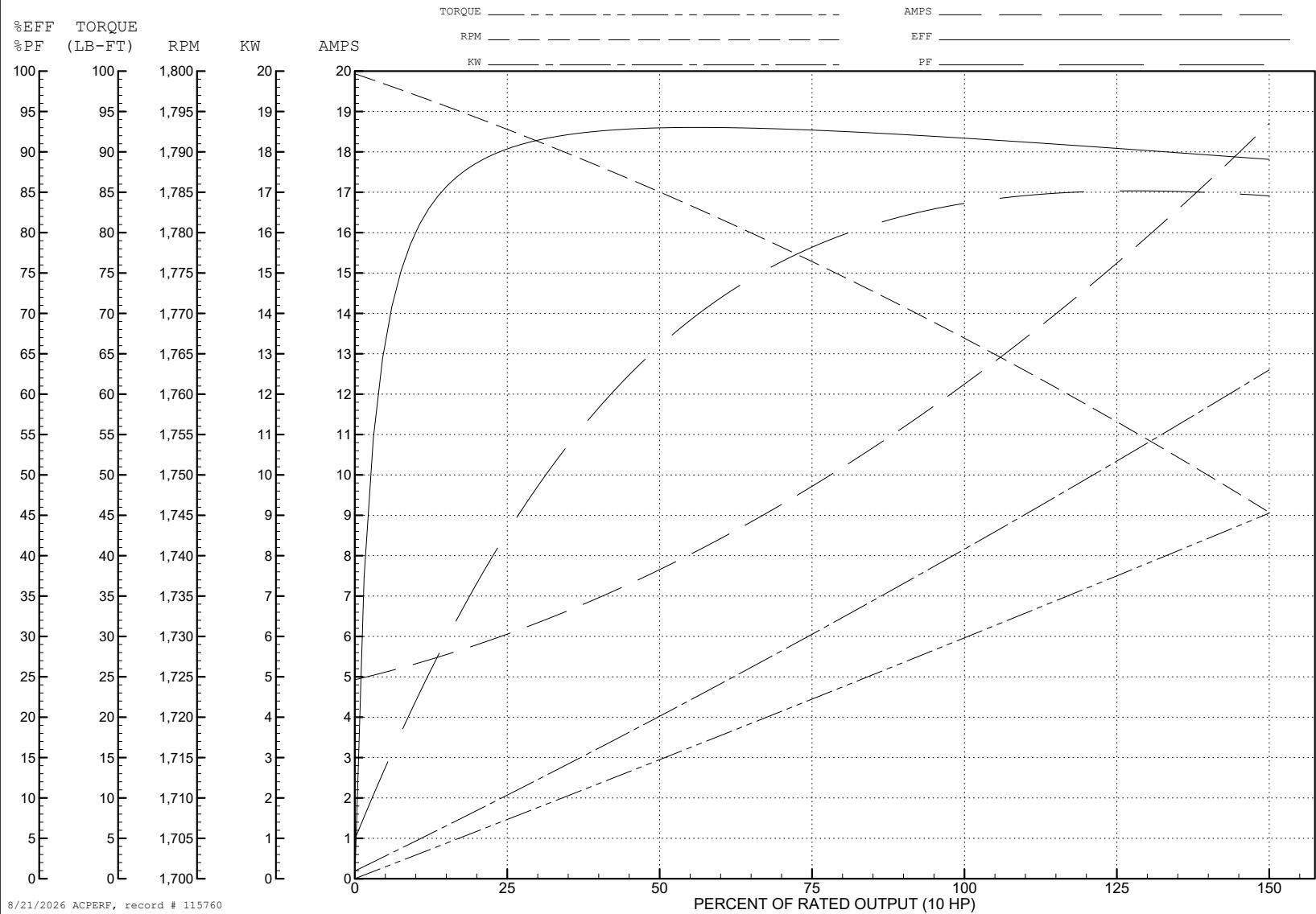
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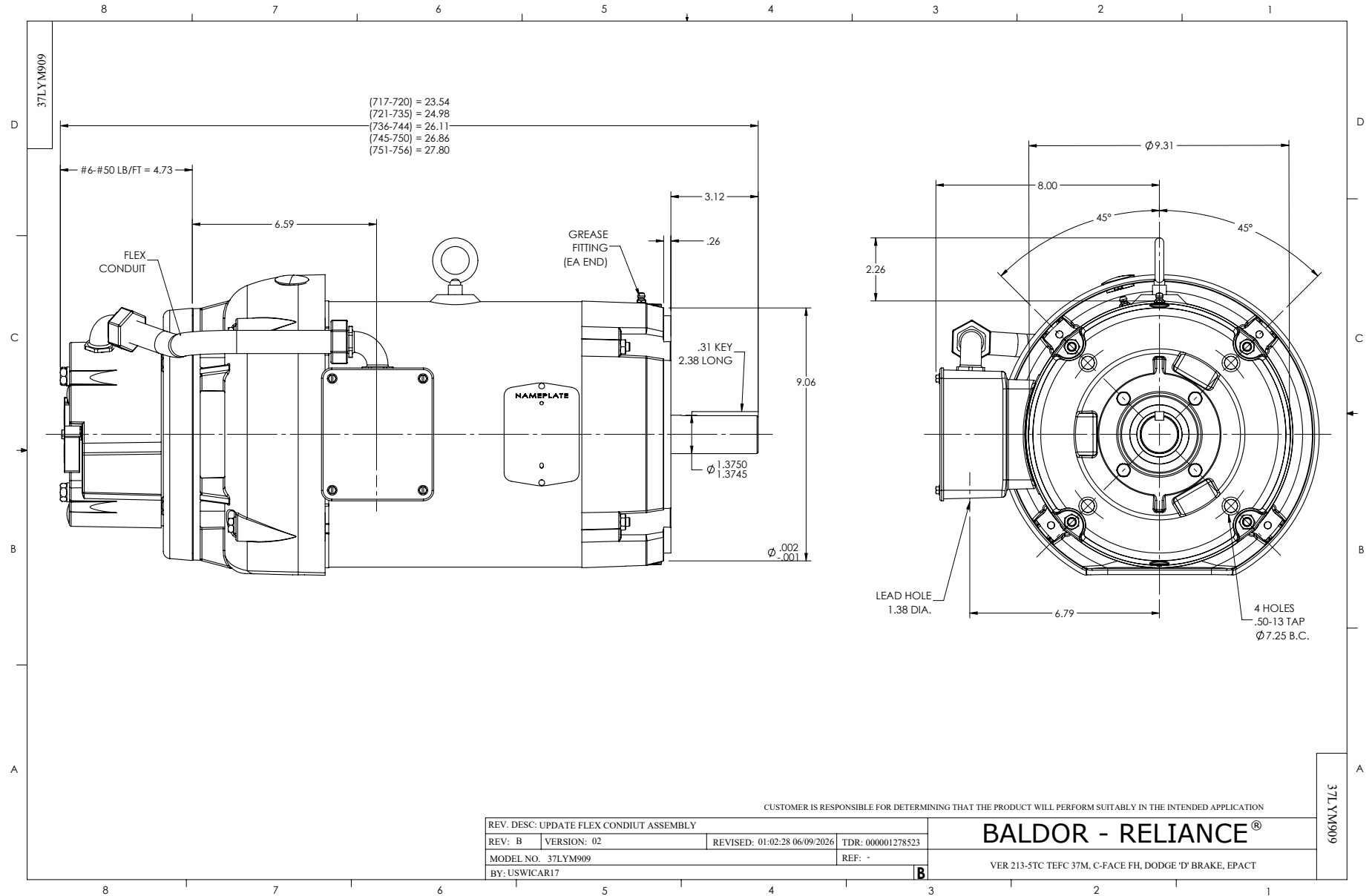
WINDING # 37WGZ711

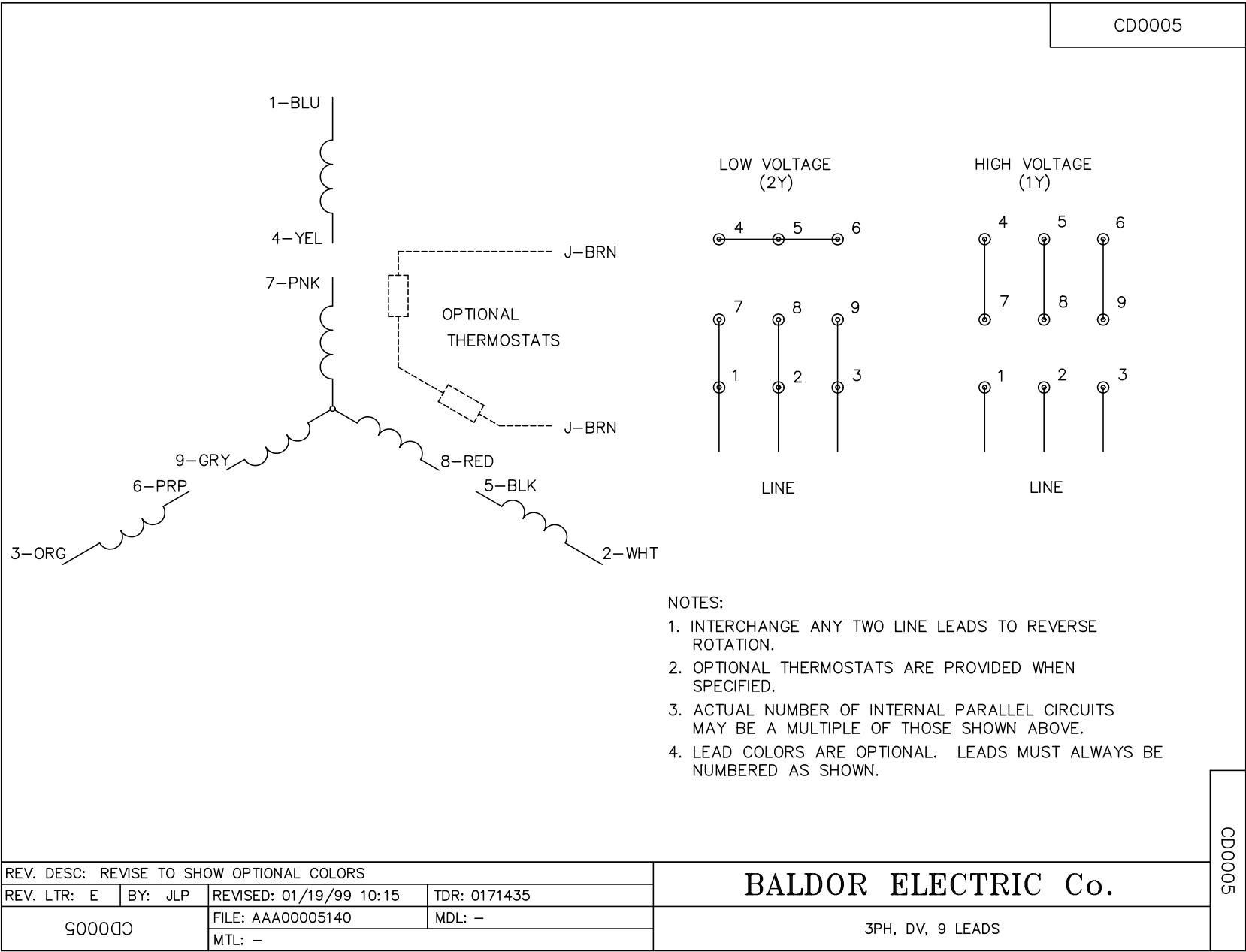
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1768 RPM 460 V 3750M

TORQUES (LB-FT): PO=93.4 PU=44.7 LR=55.5 LRA=90.5







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	VERSION: 00	TDR: 000000741785
REV. LTR: -	FILE: \CKA\00037\282	REVISED: 12: 28:11 04/12/2012
MTL: -	BY: CKRONSO	

BALDOR • DODGE • RELIANCE III
D-SERIES MOTOR BRAKE 5LD AC\DC
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