

ABB BALDOR RELIANCE III

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	J
Type	AC
Mech. spec.	36M111
Base	
Status	PRD/A
Elec. spec.	36WGQ032
Layout	36LYM111
Eff. date	07-18-2026
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%)								

Parts List

Part number	Description	Quantity
SA388447	SA 36M111Q032G1	1.000 ea
RA378808	RA 36M111Q032G1	1.000 ea
36CB3004A67	36 CB 1.09 @ 6, .88 @ 12	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
36EP1905A03	SPL FR EP FOR SPL CI FANCOVER	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3301A23	PU ENDPLATE, ENCL. 182-4TC 206 BRG. W/GR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
BR2001D01	DBSC SPLINED HUB 7/8 BOR	1.000 ea
WD5133A15	7.5" - .50 FLEX TUBING ASSY W/2 - 90 DEG	0.625 ea
WD4006A01	WIRE JOINT,T&B RB-4 OR RB-44	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
06FH1005A03	FAN COVER, MACH FOR 36EP1905A03	1.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
HA1100A06	SCREEN, RODENT	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	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
35AD2003	BAFFLE, PLATE	1.000 ea

HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
35FN3002M05	EXFN, PLASTIC, 6.00 OD, .907 ID (BRAKE)	1.000 ea
MG1000N49	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.022 ga
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
46BK0400B01	DBSC-V-15-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
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

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	Starting Current		49.8 A	
Service Factor (S.F.)		1.15	No-load Current		3.31 A	
NEMA Nom. Eff.		89.5 Power Factor	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

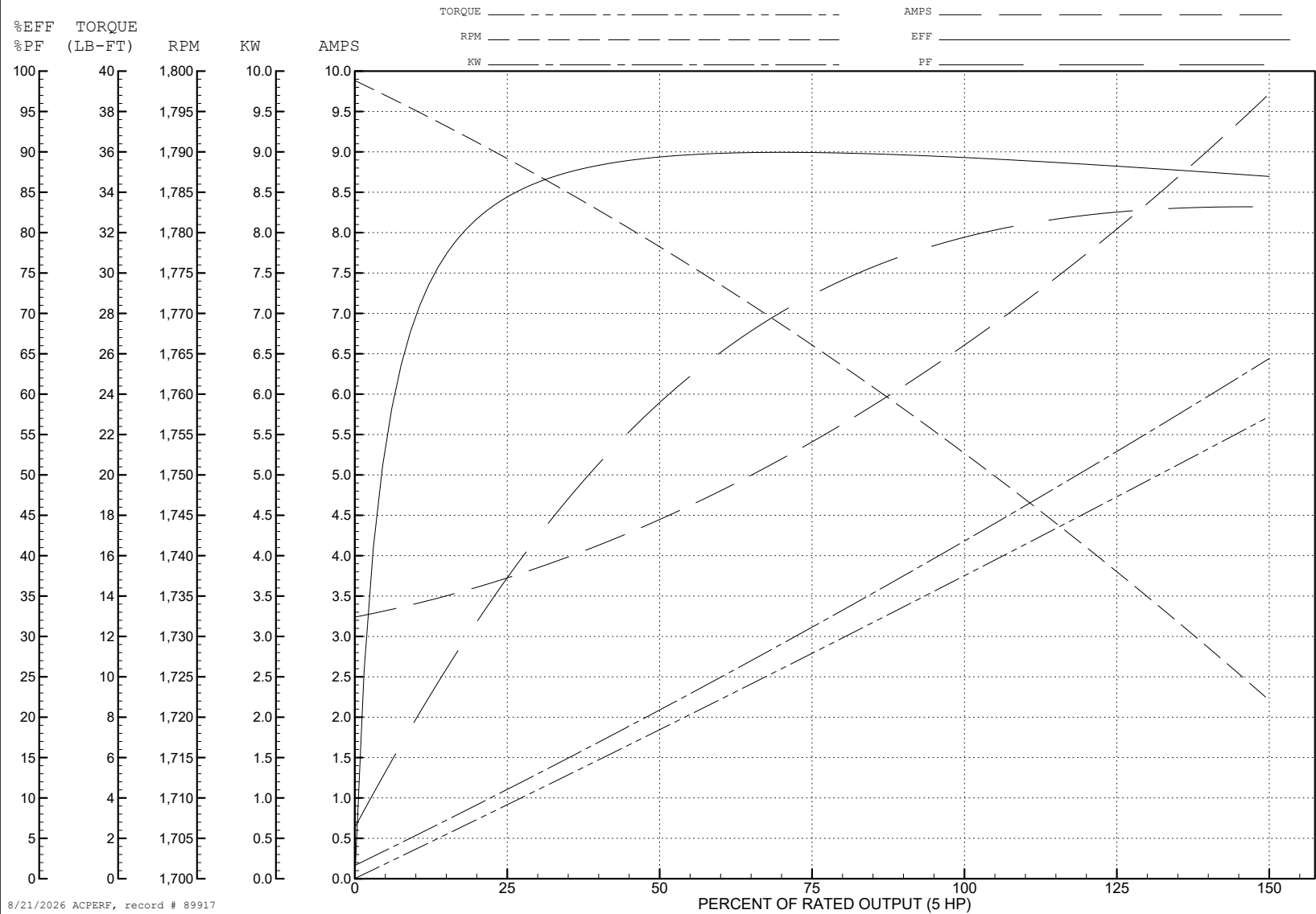
ABB Motors and Mechanical Inc.

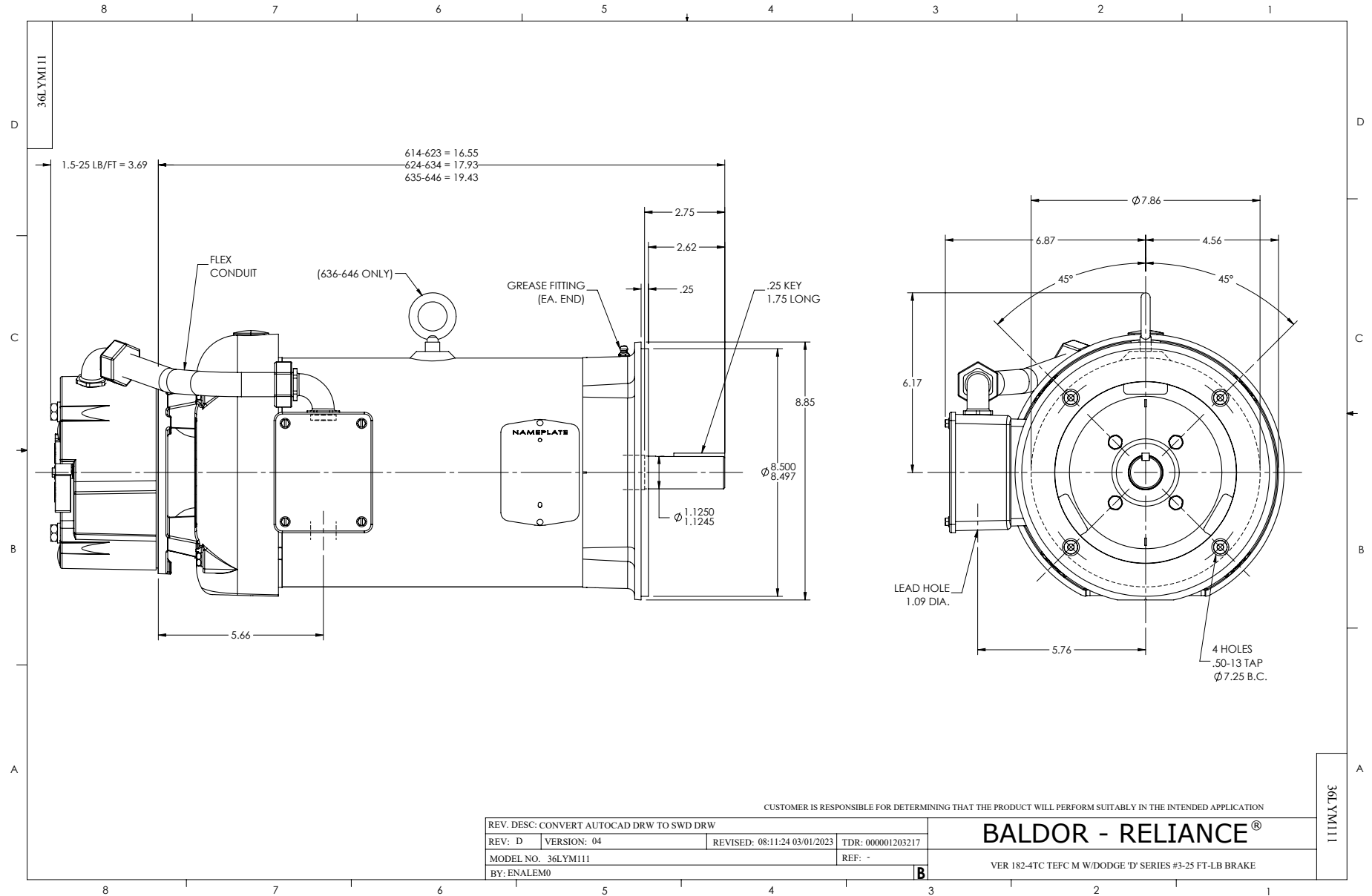
WINDING # 36WGQ032

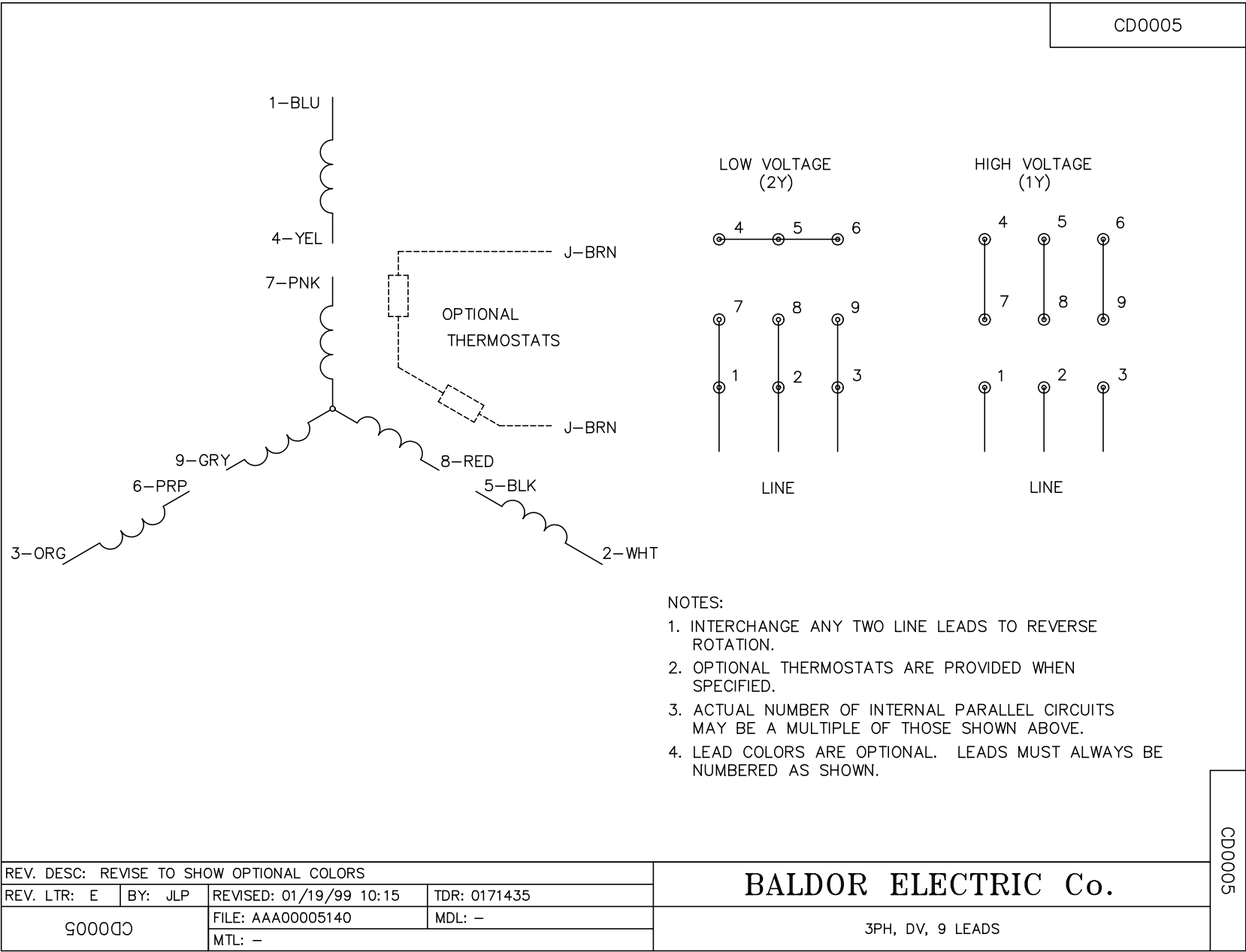
Typical performance - not guaranteed values.

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







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 III
D-SERIES MOTOR BRAKE 5LD AC\DC
SH 1 of 1