

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM321506R1

150HP, 1150, 460V, RL3203, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL3203Z
Frame Material	Exposed Laminations
Frequency	40.00 Hz
Output @ Frequency	150.000 HP @ 40 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 40 HZ
Voltage @ Frequency	460.0 V @ 40 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	180.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	180.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	38.64 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	2.874 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1170 rpm
Thermal Device - Bearing	None

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L0339A
Layout	619691-001
Eff. date	05-03-2022
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	11-30-2015

Thermal Device - Winding

Normally Closed Thermostat

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	150	1170		180	460	40		
	CONT	150	1600		177	460	55		
	CONT	75	3600		90	460	121.7		
CAT.NO.	IDDRPM321506R1		SPEC. NO.		R32-A000-0008				
SER.NO			FR	RL3203Z	INSUL	H			
PH.	3	MAX SAFE SPEED		4000	AMB.	40	MIN. AMB.	-25	
DESIGN NO.	L0339A		TYPE		ENCL.	DPG-FV			
S.F.	1.00		D.E. BRG.		85BC02J30X				
ENCL MOD			O.D.E. BRG.		65BC03J30X				

Parts List

Part number	Description	Quantity
WS303310	WS R32-A000-0008	1.000 ea
RA299519	RA R32-A000-0008	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
000613006MY	NP-RPMAC INVERTER DUTY	1.000 ea
LB1613	LABEL, QR CODE, ADHESIVE LABEL	1.000 ea
000692000XM	LABEL QR CODE	1.000 ea
LB1613	LABEL, QR CODE, ADHESIVE LABEL	1.000 ea
422927001	C/D LABEL	1.000 ea
807530004AA	BRKT, ODE RL320	1.000 ea
807530003AA	BRKT, DE RL320	1.000 ea
BP5068BJ01	BRUSH, .187 X .187 X 1.00	2.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
004824015A	GREASE POLYREX EM	0.900 lb
400638001AD	WAVEN - 400 (Customer number 43699)	1.000 ea
036000016DB	HHCS	4.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
036100090KA	HSHCS BRACKET LE	4.000 ea
036100090KA	HSHCS BRACKET LE	4.000 ea
036140001E	EYEBOLT	2.000 ea
034690002AL	1/4 SQ.HD.PIPE PLUG	1.000 ea
034690002AL	1/4 SQ.HD.PIPE PLUG	1.000 ea
036500013AB	M16 X 2.0 HX NUT,ODE BRKT 304589	4.000 ea
BP5248	BP5248	2.000 ea
036500013AB	M16 X 2.0 HX NUT,ODE BRKT 304589	4.000 ea
708532004A	L320 AIR BAFFLE	1.000 ea
609830005AAK	TBOLT	2.000 ea
609830005AAM	TBOLT	2.000 ea
610490001AF	24M 2P TEFC VER 56C SUPER E	1.000 ea

036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
611965001A	WHEEL, BLOWER	1.000 ea
417733004J	GASKT	2.000 ea
611917002H	GASKT	1.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	6.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
000613006NT	NAME PLATE IEC	1.000 ea
417733036C	GASKT,C/BOX BACKPLATE,REF 706310063B	1.000 ea
418057256C	HHCS M10 25MM 440 IEC	1.000 ea
036600009AB	METRIC FLWASH M8 PLATED	3.000 ea
032018004DK	HHCS,DRIP COVER	4.000 ea
706310389B	ENTRY PLATE 706310389AB	1.000 ea
417733014C	GASKT (REK P/N 187215)	1.000 ea
036000020JD	HHCS M8X20MM LONG 304S.S	5.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
708528004F	HOUSING, BLOWER	1.000 ea
410978010E	INLET FLGE	1.000 ea
410978019A	SCREEN, INLET FLANGE	1.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
036620010AB	M10 EXT. TOOTH LK WASHER	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
613439051A	ADAPT,CBOX,RL320	1.000 ea
418014004A	609185004cDPT/BOX	1.000 ea
422919085	HHCVR KIT,C320,DE,SOLID, XT	1.000 ea
422919088	HHCVR KIT,C320,DE,LOUVERED,S/P, XT	1.000 ea
422919088	HHCVR KIT,C320,DE,LOUVERED,S/P, XT	1.000 ea
422919370	HHCVR KIT,L320,DE,X/T,C/BOX MTG	1.000 ea
422919085	HHCVR KIT,C320,DE,SOLID, XT	1.000 ea
036600008AD	FLTWSHR,T BLK SPT	8.000 ea
706310063B	CBOX (REK)	1.000 ea
706310058B	CBCVR(REK P/N 187296)	1.000 ea
417733013B	GASKT (REK P/N 189486)	1.000 ea
036000020HD	HHCS M6X20MM LONG 304S.S	8.000 ea
036000012KB	M10 1.50 X 12MM HXHDCS	4.000 ea

706305301A	GUARD, SHAFT	1.000 ea
034180034JA	KEY 3/4X3/4X4-1/4 L	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
004824007BTW	SPECIAL PAINT4824-3BVZ	0.300 ea
418018116	WARNING PLATE	1.000 ea
415000003E	T/LUG #4AWG-1/0AWG W/HOLE FOR .375 BOLT	1.000 ea
LB1549	LABEL, BLANK 1.375 X 2.250 IMPRINTABLE	1.000 ea
004824007AB	PAINT,XT	0.100 ea

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE		
FRAME	RL3203	AMPS	175.44	MAX SAFE RPM	4000	(AT BASE RATING, 25 °C)		
HP	150	DUTY	CONT	IM (AMPS)	57.23	R1	.0324	X1 .161
BASE SPEED	1170	S.F.	1.0	P.F.@NL/FL	.04/.883	R2	.0270	X2 .157
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	21.3			XM 4.79

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1168	150	674	460	40	176
MAX SPEED	3599	75.0	109	460	121.7	88.0
MIN SPEED	0	0	674	18.2	1.060	176

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1200	0	0	460	40	55.6
1/4	1193	38.6	170	460	40	70.8
1/2	1185	77.1	342	460	40	101
3/4	1176	116	516	460	40	138
FULL LOAD	1168	150	674	460	40	176
O/L	1148	221	1012	460	40	266

REMARKS: TYPICAL DATA
CORRELATED DATA



DR. BY J. MARTIN
CK. BY J. MARTIN
APP. BY T. EVON
DATE 11-23-15

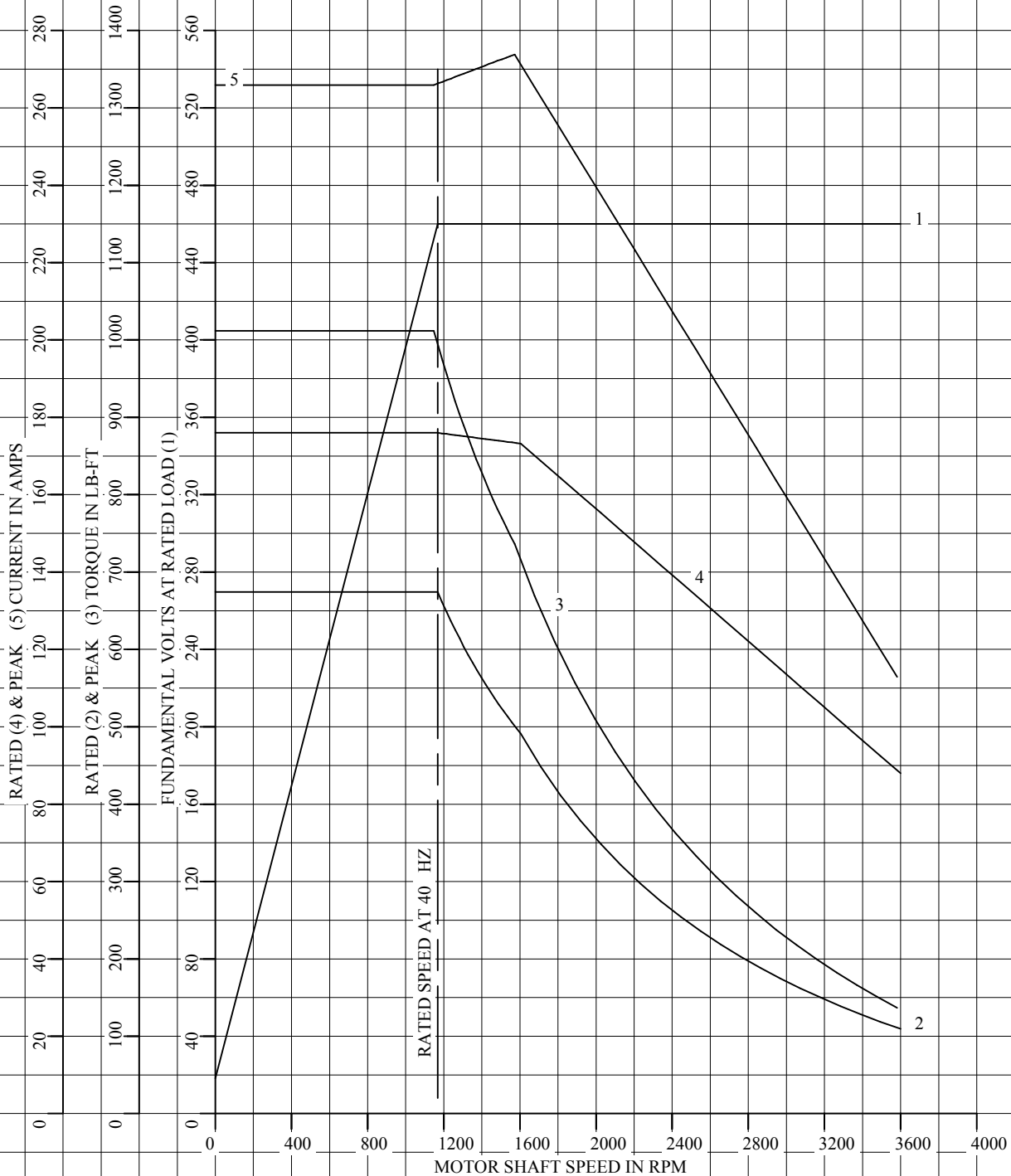
**A-C MOTOR
PERFORMANCE DATA** L0339A

ISSUE DATE 02/22/99

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REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	RL3203	AMPS	175.44	MAX SAFE RPM	4000	(AT BASE RATING, 25 °C)	
HP	150	DUTY	CONT	IM (AMPS)	57.23	R1 .0324	X1 .161
BASE SPEED	1170	S.F.	1.0	P.F. @NL/FL	.04/.883	R2 .0270	X2 .157
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	21.3	XM 4.79	

CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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DATE 11-23-15

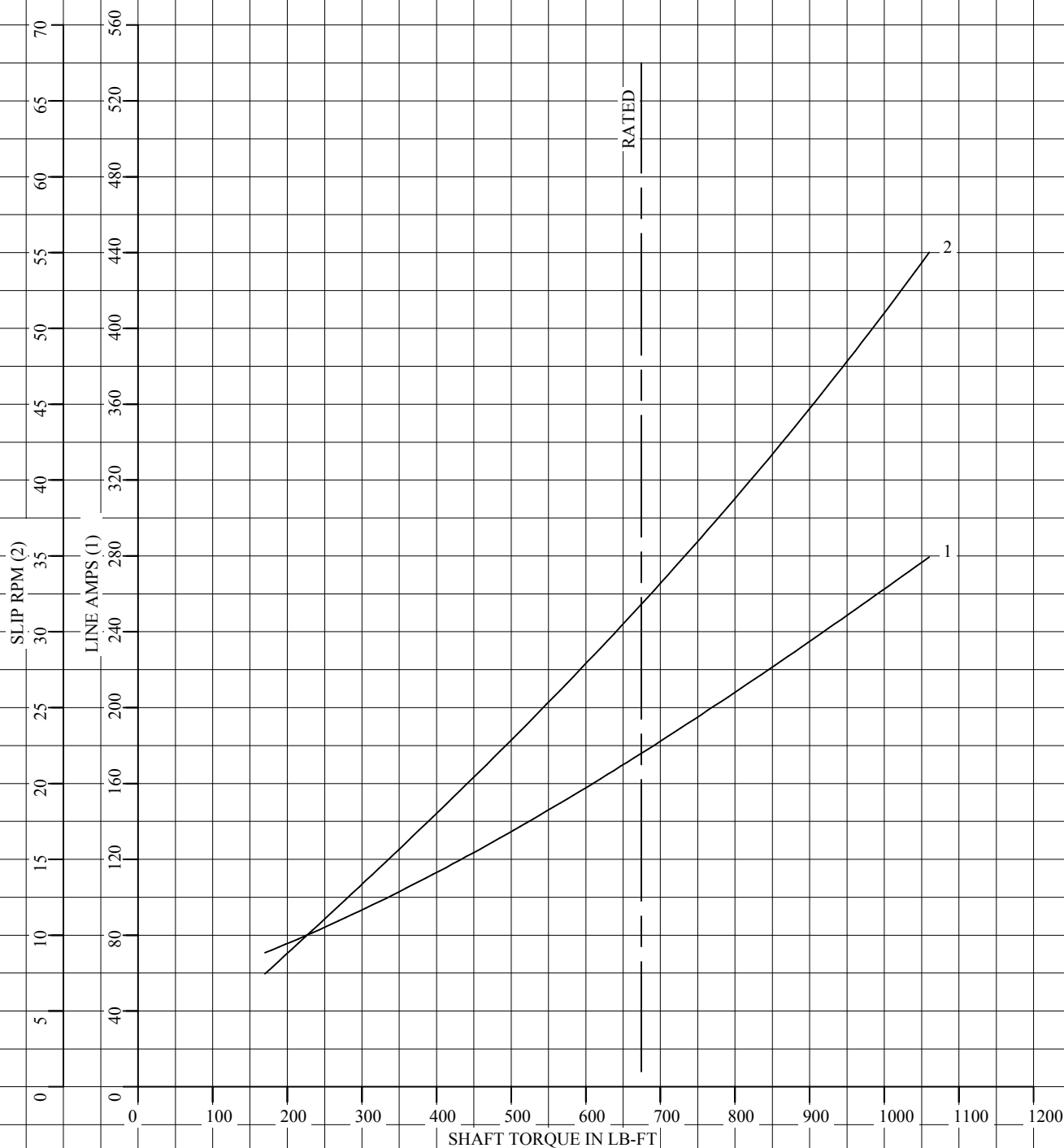
**A-C MOTOR
PERFORMANCE
CURVES**

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SH 1 OF 2
ISSUE DATE 02/22/99
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REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	RL3203	AMPS	175.44	MAX SAFE RPM	4000	(AT BASE RATING, 25 °C)	
HP	150	DUTY	CONT	IM (AMPS)	57.23	R1 .0324	X1 .161
BASE SPEED	1170	S.F.	1.0	P.F. @NL/FL	.04/.883	R2 .0270	X2 .157
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	21.3	XM 4.79	

CORRELATED DATA

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



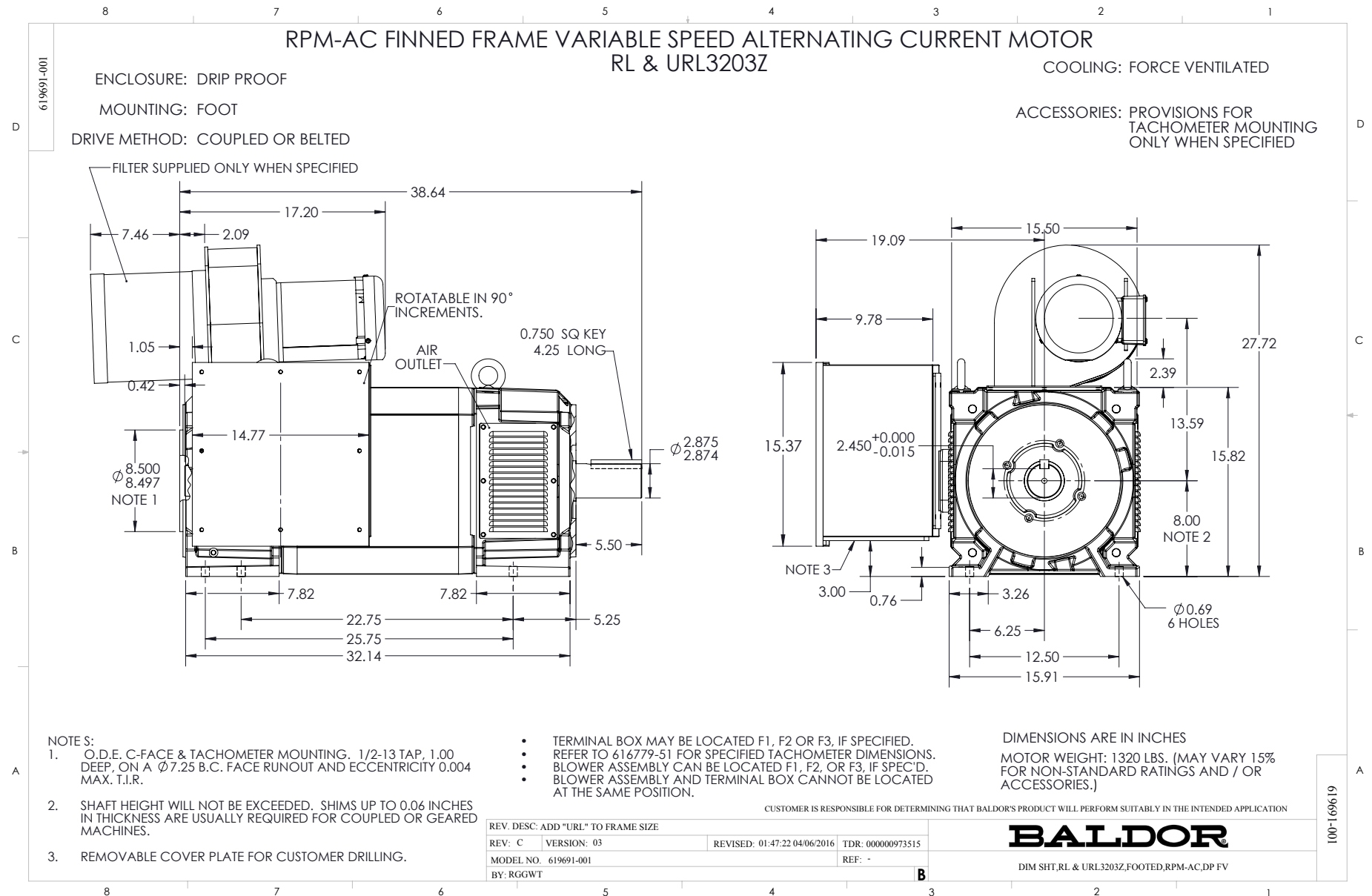
REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR
A MEMBER OF THE ABB GROUP

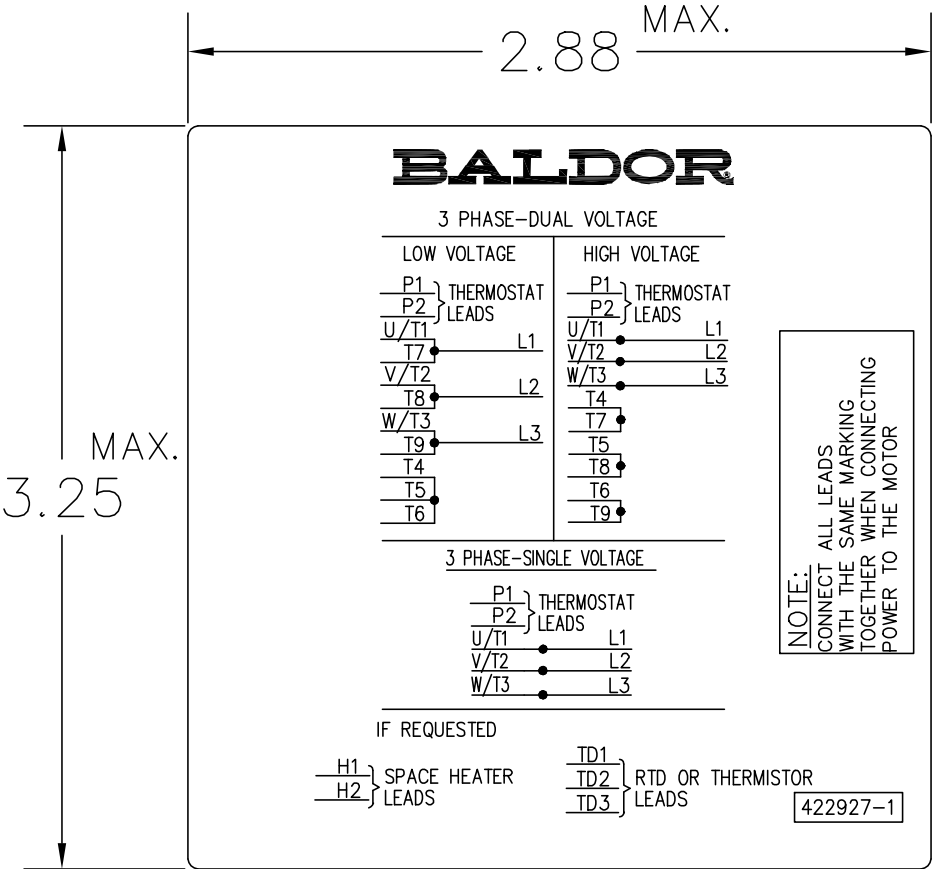
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DATE 11-23-15

**A-C MOTOR
PERFORMANCE
CURVES**

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SH 2 OF 2
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422927-001



NOTE:
DATA TO BE SIZED
SO THAT IT FITS INTO
MATERIAL DECAL
DIMENSIONS. MAKE
LETTERS & NUMBERS
AS LARGE AS POSSIBLE.

MATERIAL: CERAMATIC DGF-P4
 PERMA GRIP ADHESIVE

ALL LETTERS, NUMBERS
AND LINES TO BE BLACK
ON WHITE BACKGROUND.

422927-001

REV. DESC: CHANGE BACKGROUND COLOR FROM GOLD TO WHITE		
REV. LTR: B	VERSION: 02	TDR: 000000788708
FILE: \RGG\00000\203	REVISED: 08:09:29 03/04/2013	
MTL: -	BY: RGGWT	

BALDOR

EXTERNAL CONNECTION LABEL

SH 1 of 1