

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM364004R1

400HP, 1775/2400/2700, 460V, RL3614, DPFV, F1

Specifications

Enclosure	DPFV
Frame	RL3614
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	400.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	459.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	459.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	43.22 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.00
Shaft Diameter	2.874 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1777 rpm
Starting Method	Full Voltage
Thermal Device - Bearing	None

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L9458A
Layout	619684-001
Eff. date	08-21-2023
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	02-03-2023

Thermal Device - Winding

Normally Closed Thermostat

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	400	1777		460	460	60		
	CONT	400	2400		450	460	81.1		
	CONT	400	2700		453	460	91.3		
CAT.NO.	IDDRPM364004R1			SPEC. NO.	R36-A000-0264				
SER.NO				FR	RL 3614	INSUL	H		
PH.	3	MAX SAFE SPEED			3750	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L9458A			TYPE		ENCL.	DP		
S.F.	1.0			D.E. BRG.	95BC02J30X				
ENCL MOD	FORCE VENT			O.D.E. BRG.	80BC03J30X				

Parts List

Part number	Description	Quantity
WS406147	WS R36-A000-0264	1.000 ea
RA402658	RA R36-A000-0264	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
000613006MY	NP-RPMAC INVERTER DUTY	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
004824007AB	PAINT,XT	0.100 ea
807531004AA	BRKT,FE/ODE,RL360 807531001WCA	1.000 ea
807531003AA	BRKT,BE/DE,RL360 807531001WCA	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
419912001B	W WASHER	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
036100100KA	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
708532005A	L360 AIR BAFFLE	1.000 ea
609830005ACM	TBOLT	2.000 ea
609830005AAL	STUD FILTER METRIC M16	2.000 ea
610490001BW	32M 2P TEFC VER 145TCZ S/P32-6 SUPER E	1.000 ea

415000003E	T/LUG #4AWG-1/0AWG W/HOLE FOR .375 BOLT	1.000 ea
611965001E	BLOWER WHEEL	1.000 ea
417733004J	GASKT	2.000 ea
611917002K	GASKT	1.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 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
706313062D	BLHSG BE MTG C400	1.000 ea
410978010F	FLANGE, INLET BLOWER HSG	1.000 ea
410978015A	GRILL, 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
418014004A	609185004cDPT/BOX	1.000 ea
613439050A	ADAPT,C/BOX,FL360	1.000 ea
422919111	HHCVK KIT,C360,DE,SOLID,X/T	1.000 ea
422919107	HHCVK KIT,C360,DE, LOUVERED	1.000 ea
422919107	HHCVK KIT,C360,DE, LOUVERED	1.000 ea
422919419	HHCVK KIT,RL360,ODE/DE,C/BOX MTG	1.000 ea
422919111	HHCVK KIT,C360,DE,SOLID,X/T	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
004824007CQR	C2 PAINT SYSTEM MEDIUM GRAY CHARCOAL MET	0.300 ea
418018116	WARNING PLATE	1.000 ea
LB1549	LABEL, BLANK 1.375 X 2.250 IMPRINTABLE	1.000 ea

FRAME	RL3614	AMPS	460	MAX SAFE SPEED	3750				
HP	400	DUTY	CONT	IM (AMPS)	146	R1	.00910	X1	.0657
BASE SPEED	1777	S.F.	1.0	P.F. @NL / FL	.039/.877	R2	.00528	X2	.0657
PHASE/HZ	3/60	AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	45			XM	1.86

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1776	400	1183	460	60	462
MAX SPEED	2700	400	778	460	91.3	455
MIN SPEED	0	0	1183	13.3	.814	462

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	143
1/4	1794	100	294	460	60	183
1/2	1788	200	588	460	60	261
3/4	1782	300	884	460	60	356
FULL LOAD	1776	400	1183	460	60	462
0/L	1741	785	2366	460	60	969

REMARKS:
TYPICAL DATA
CORRELATED DATA



DRAWN BY: A. BROOKINS
CHECKED BY: B. GRANT
APPROVED BY: J. MARTIN
DATE: 3-14-23

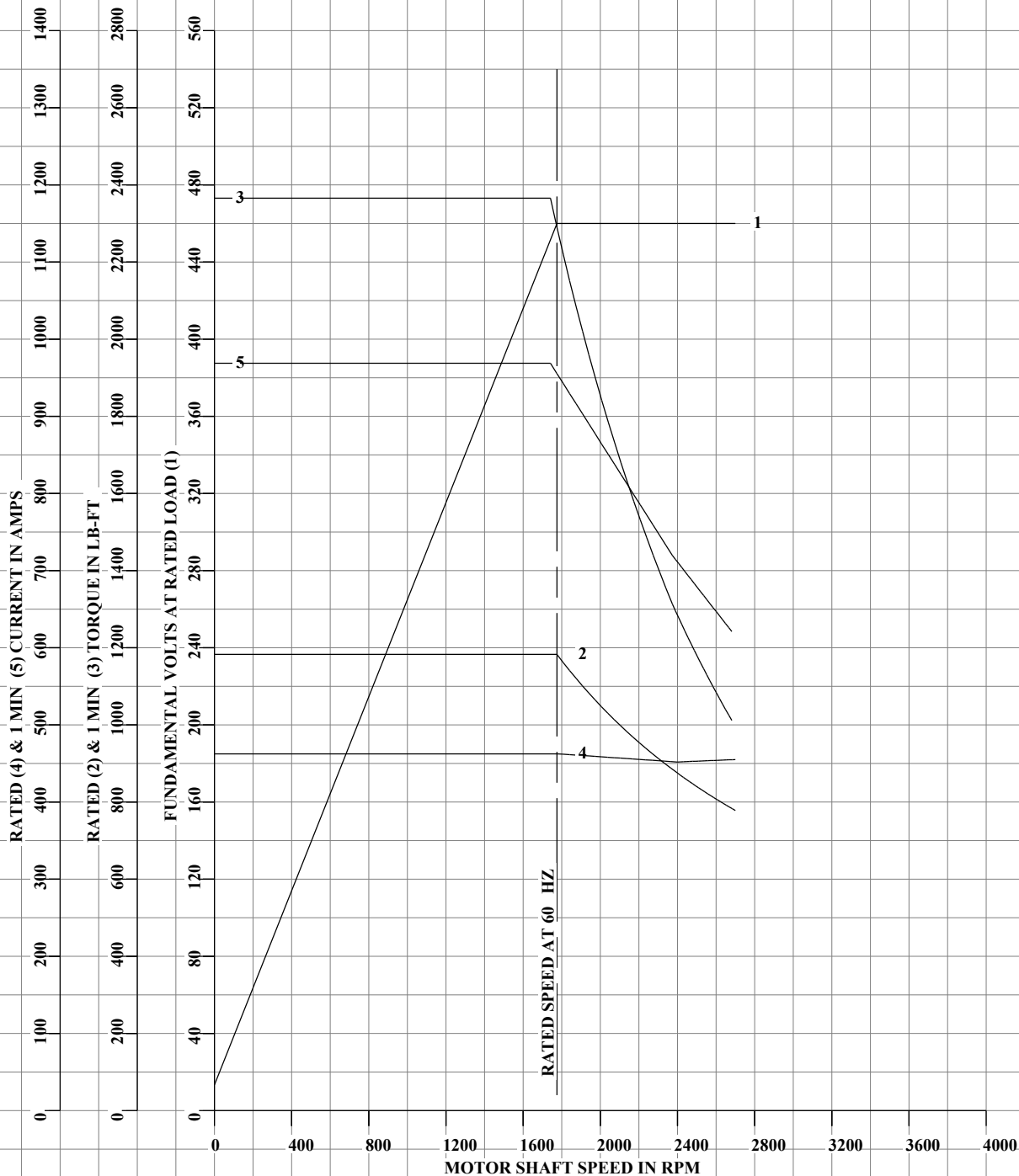
**AC MOTOR
PERFORMANCE
DATA**

L9458A

ISSUE DATE 3-14-23

FRAME	RL3614	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	400	AMPS	460	MAX SAFE SPEED	3750	R1	.00910	X1 .0657
BASE SPEED	1777	DUTY	CONT	IM (AMPS)	146	R2	.00528	X2 .0657
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.039/.877			XM 1.86
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	45			

**CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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CHECKED BY: B. GRANT
APPROVED BY: J. MARTIN
DATE: 3-14-23

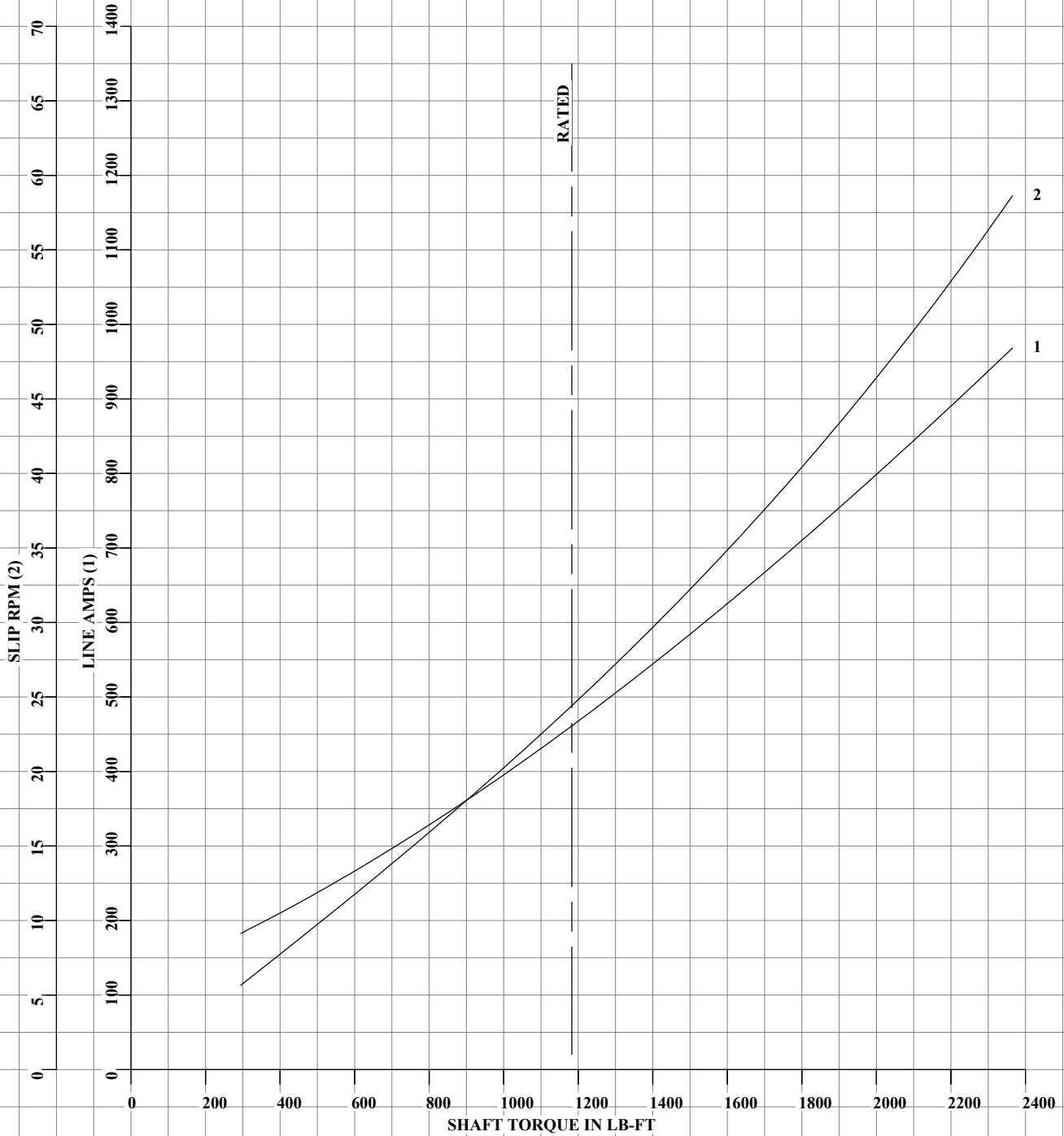
**AC MOTOR
PERFORMANCE
DATA**

L9458A

ISSUE DATE: 3-14-23

FRAME	RL3614	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25°C)		
HP	400	AMPS	460	MAX SAFE SPEED	3750	R1	.00910	X1 .0657
BASE SPEED	1777	DUTY	CONT	IM (AMPS)	146	R2	.00528	X2 .0657
PHASE/HZ	3/60	S.F.	1.0	P.F. @NL / FL	.039/.877			XM 1.86
		AMB.°C / INSUL	40/H	WK ² (Lb-Ft ²)	45			

**CORRELATED DATA
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)**



TYPICAL DATA, DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

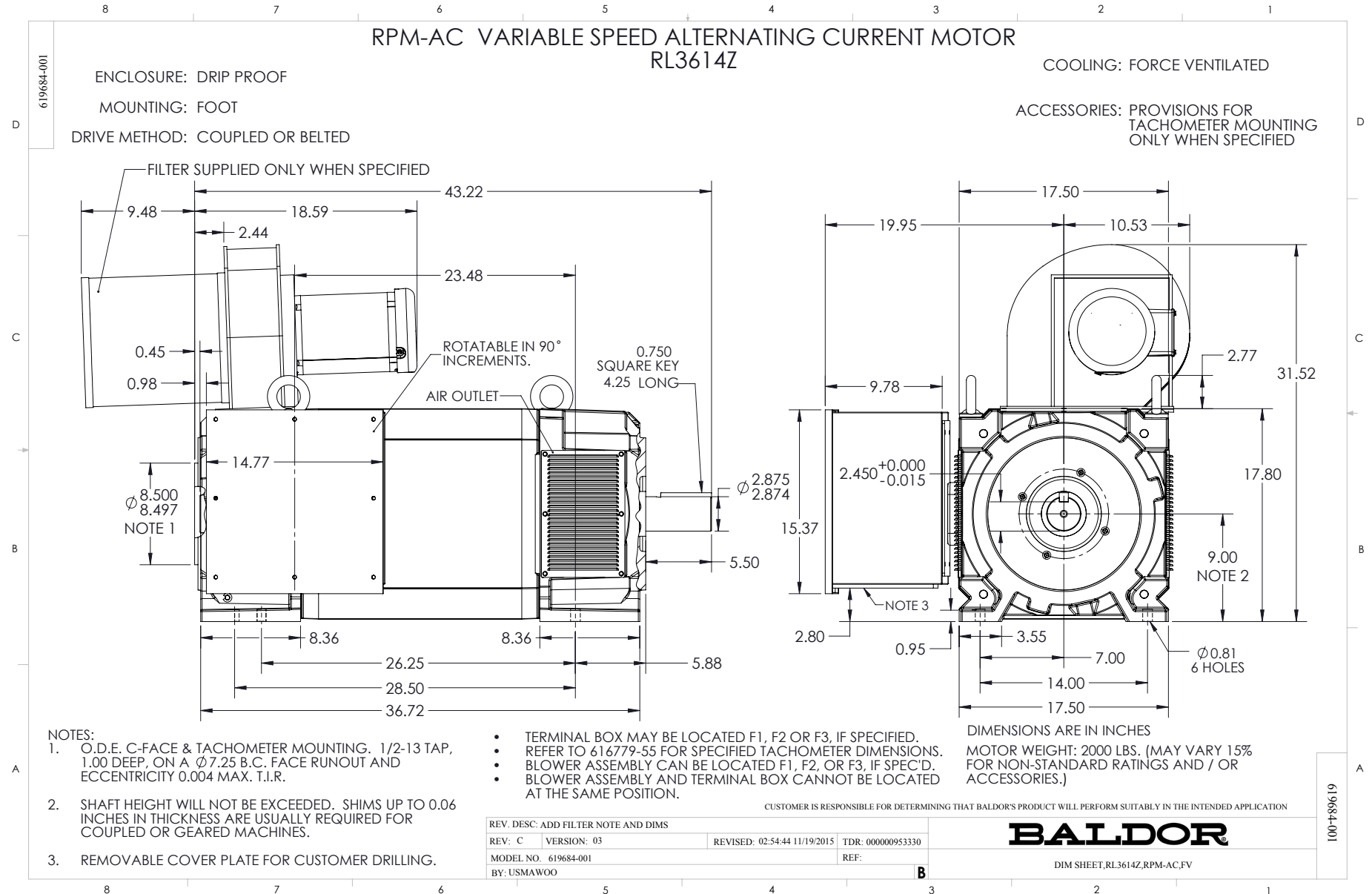


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 APPROVED BY: J. MARTIN
 DATE: 3-14-23

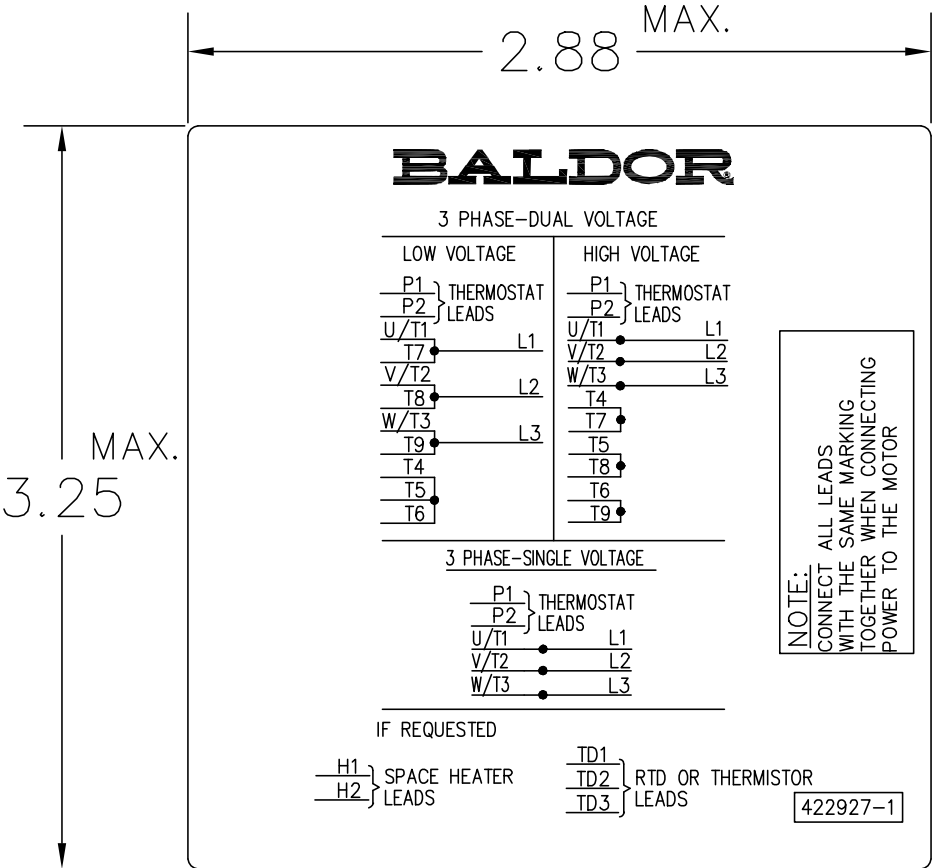
**AC MOTOR
PERFORMANCE
DATA**

L9458A

ISSUE DATE: 3-14-23



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