ABB BALDOR RELIANCE

Customer information packet

IDDRPM362506R1

250HP, 1170/1810RPM, 460V, 3PH, DPGFV, RL3698

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Specifications

Enclosure	DPFV
Frame	RL3698
Frame Material	Exposed Laminations
Frequency	40.00 Hz
Output @ Frequency	250.000 @ 40 HZ
	250.000 HP @ 40 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 40 HZ
Voltage @ Frequency	460.0 V @ 40 HZ
	460 V @ 40 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	298.000 A @ 460.0 V
Duty Rating	CONT
Enclosure Modification	FORCE VENT
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Heater Indicator	No Heater
High Voltage Full Load Amps	298.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	39.22 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

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L6130A
Layout	619680-001
Eff. date	05-03-2022
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	04-09-2015

Speed	1170 rpm
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613006MY

DUTY	HP	RPM	AMPS	VOLTS	HZ
CONT	250	1170	298	460	40
CONT	250	2000	302	460	62

CAT.NO.	IDDRPM362506R1		**SPEC. NO.**	P36R1323			
SER.NO		**FR**	RL 3698	**INSUL**	H		
PH.	3	**MAX SAFE SPEED**	3750	**AMB.**	40	**MIN. AMB.**	-25
DESIGN NO.	L6130A	**TYPE**		**ENCL.**	DP		
S.F.	1.00	**D.E. BRG.**	95BC02J30X				
ENCL MOD	FORCE VENT	**O.D.E. BRG.**	80BC03J30X				

Parts List

Part number	Description	Quantity
WS286631	WS P36R1323	1.000 ea
RA282839	RA P36R1323	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
004824015A	GREASE POLYREX EM	0.900 lb
034690002AL	1/4 SQ.HD.PIPE PLUG	1.000 ea
034690002AL	1/4 SQ.HD.PIPE PLUG	1.000 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
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
418150003A	GREASE FITTING CAP	2.000 ea
419912001B	W WASHER	1.000 ea
036000016DB	HHCS	4.000 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
708532005A	L360 AIR BAFFLE	1.000 ea
609830005ADB	STUD,FRAME,FL320	2.000 ea
609830005AAK	TBOLT	2.000 ea
807531003AA	BRKT,BE/DE,RL360 807531001WCA	1.000 ea
BP5068BJ01	BRUSH, .187 X .187 X 1.00	2.000 ea
807531004AA	BRKT,FE/ODE,RL360 807531001WCA	1.000 ea
000613006NT	NAME PLATE IEC	1.000 ea

032018004DK	HHCS,DRIP COVER	4.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	3.000 ea
036000012KB	M10 1.50 X 12MM HXHDCS	4.000 ea
036000020HD	HHCS M6X20MM LONG 304S.S	8.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	6.000 ea
036000020JD	HHCS M8X20MM LONG 304S.S	5.000 ea
036600008AD	FLTWSHR,T BLK SPT	8.000 ea
036600009AB	METRIC FLWASH M8 PLATED	3.000 ea
036620010AB	M10 EXT. TOOTH LK WASHER	1.000 ea
417733036C	GASKT,C/BOX BACKPLATE,REF 706310063B	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
417733004J	GASKT	2.000 ea
417733013B	GASKT (REK P/N 189486)	1.000 ea
417733014C	GASKT (REK P/N 187215)	1.000 ea
418014004A	609185004cDPT/BOX	1.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
418057256C	HHCS M10 25MM 440 IEC	1.000 ea
422919107	HHCVR KIT,C360,DE, LOUVERED	1.000 ea
422919107	HHCVR KIT,C360,DE, LOUVERED	1.000 ea
422919111	HHCVR KIT,C360,DE,SOLID,X/T	1.000 ea
422919111	HHCVR KIT,C360,DE,SOLID,X/T	1.000 ea
422919419	HHCVR KIT,RL360,ODE/DE,C/BOX MTG	1.000 ea
610490001BW	32M 2P TEFC VER 145TCZ S/P32-6 SUPER E	1.000 ea
611917002K	GASKT	1.000 ea
611965001E	BLOWER WHEEL	1.000 ea
613439050A	ADAPT,C/BOX,FL360	1.000 ea
706305301A	GUARD, SHAFT	1.000 ea
706310058B	CBCVR(REK P/N 187296)	1.000 ea
706310389B	ENTRY PLATE 706310389AB	1.000 ea
706310063B	CBOX (REK)	1.000 ea

706313062D	BLHSG BE MTG C400	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
004824007CQR	C2 PAINT SYSTEM MEDIUM GRAY CHARCOAL MET	0.300 ea
034180034JA	KEY 3/4X3/4X4-1/4 L	1.000 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	RL3698	AMPS	298	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)			
HP	250	DUTY	CONT	IM (AMPS)	98	R1	.0191	X1	.122
BASE SPEED	1170	S.F.	1.0	P.F.@NL/FL	.041/.866	R2	.0142	X2	.106
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK^2 ($Lb-Ft^2$)	35.4			XM	2.82

RATED FULL LOAD DATA

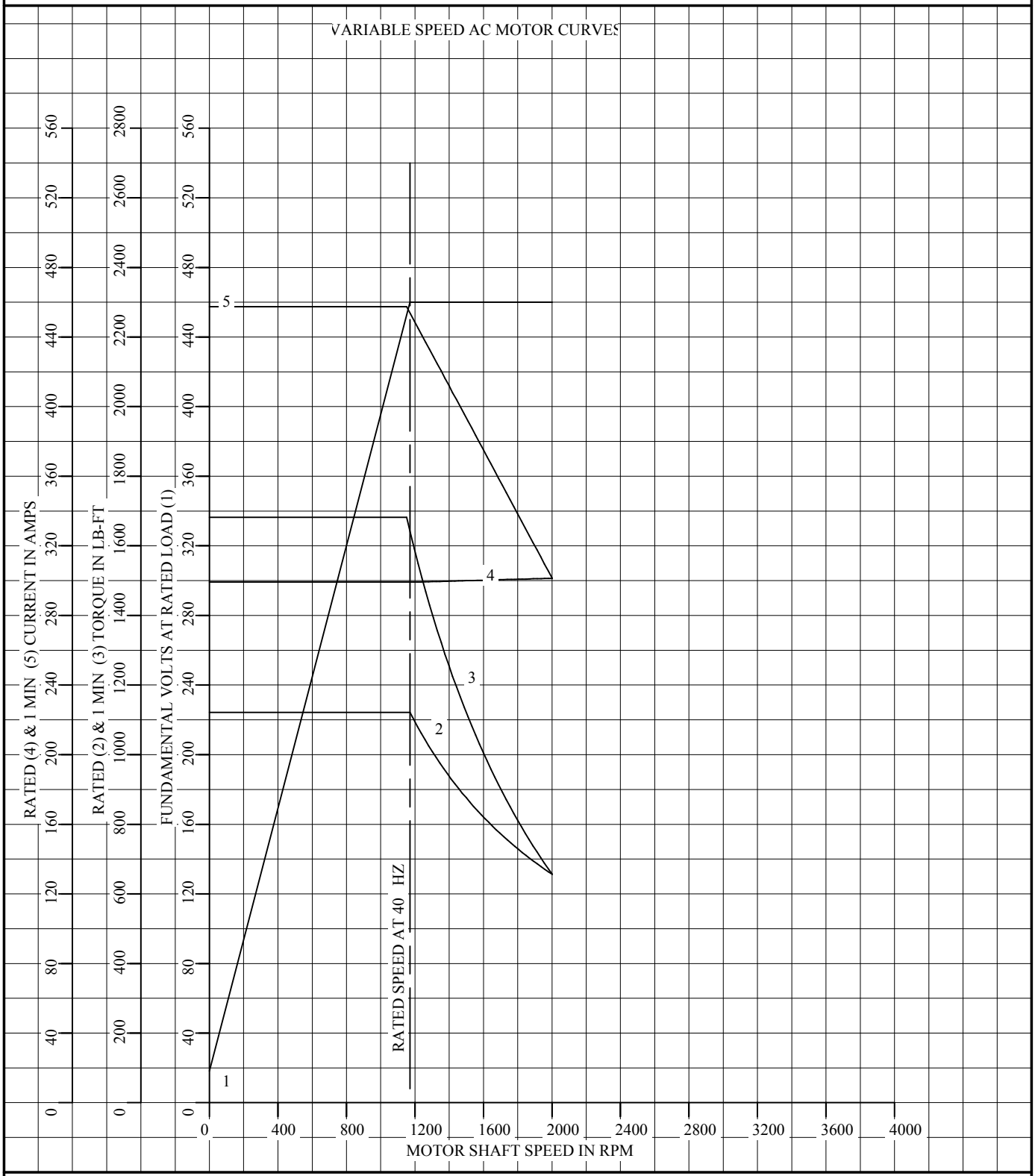
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1171	250	1121	460	40	299
MAX SPEED	2002	250	656	460	68.6	301
MIN SPEED	0	0	1121	18.3	.968	299

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1200	0	0	460	40	95.5
1/4	1194	62.5	275	460	40	119
1/2	1187	125	554	460	40	168
3/4	1179	187	835	460	40	229
FULL LOAD	1171	250	1121	460	40	299
O/L	1151	369	1682	460	40	457

REMARKS: TYPICAL DATA

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	RL3698	AMPS	298	MAX SAFE RPM	3750	(AT BASE RATING, 25 ℃)	
HP	250	DUTY	CONT	IM (AMPS)	98	R1 .0191	X1 .122
BASE SPEED	1170	S.F.	1.0	P.F.@NL/FL	.041/.866	R2 .0142	X2 .106
PHASE/HERTZ	3/40	AMB ℃/INSUL	40/H	WK^2 (Lb-Ft^2)	35.4		XM 2.82



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

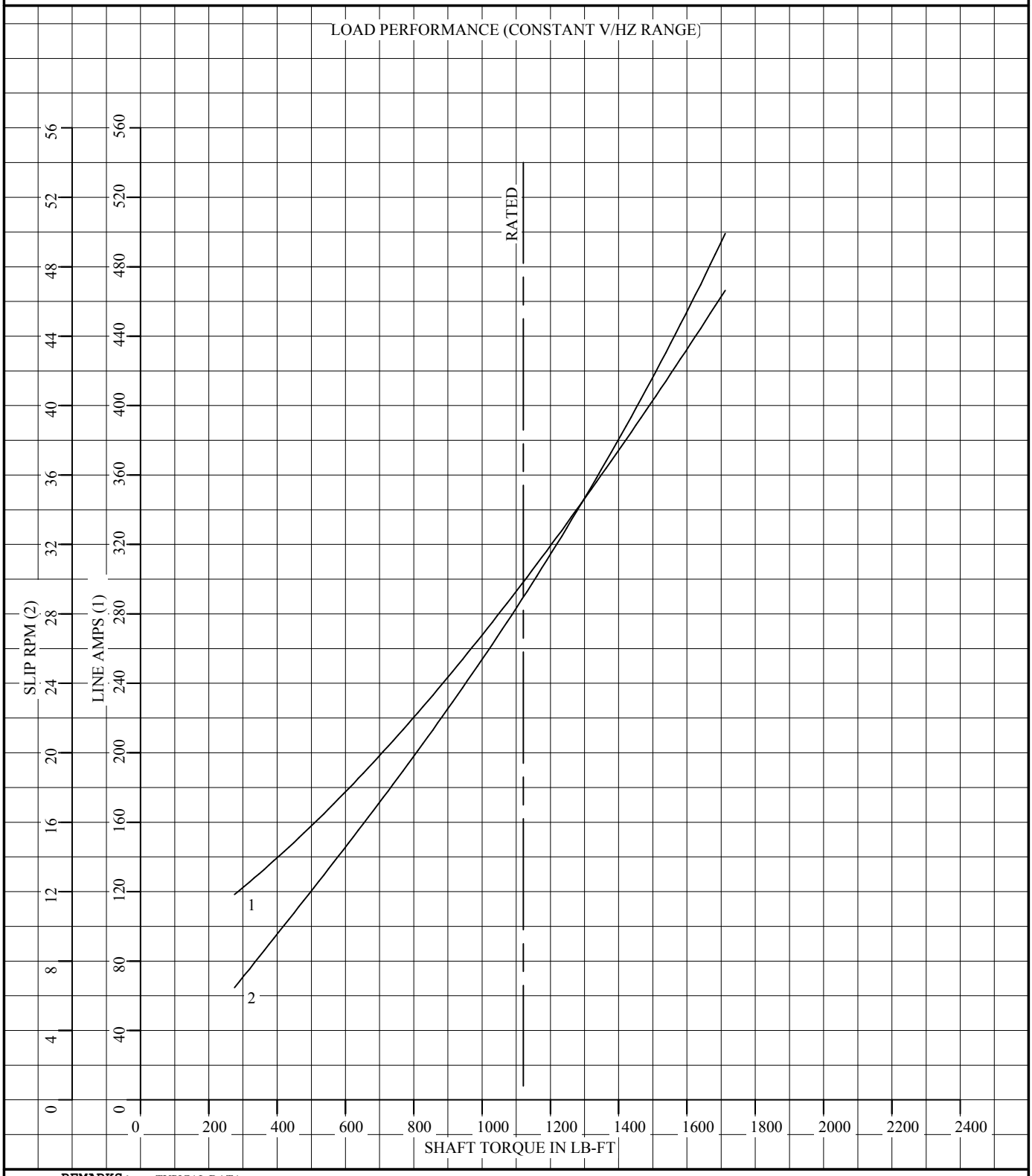
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	K. GREEN
CK. BY	B. GRANT
APP. BY	J. MARTIN
DATE	6-09-2014

A-C MOTOR PERFORMANCE CURVES

L6130A
SH 1 OF 2
ISSUE DATE 7-14-17

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 °C)	
FRAME	RL3698	AMPS	298	MAX SAFE RPM	3750		
HP	250	DUTY	CONT	IM (AMPS)	98	R1 .0191	X1 .122
BASE SPEED	1170	S.F.	1.0	P.F.@NL/FL	.041/.866	R2 .0142	X2 .106
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK^2 (Lb-Ft^2)	35.4		XM 2.82



REMARKS: TYPICAL DATA
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A-C MOTOR PERFORMANCE CURVES

L6130A
SH 2 OF 2
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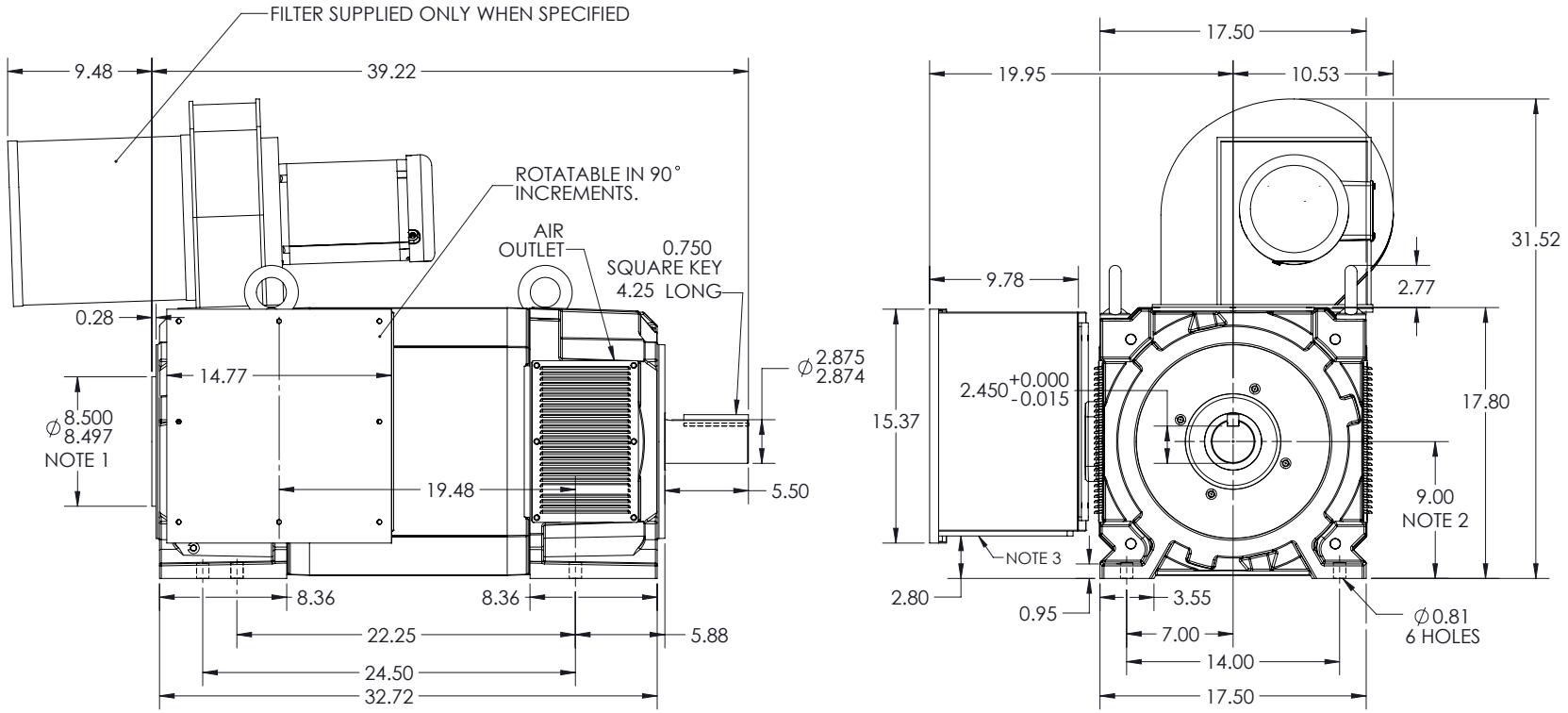
619680-001

ENCLOSURE: DRIP PROOF
MOUNTING: FOOT
DRIVE METHOD: COUPLED OR BELTED

RPM-AC VARIABLE SPEED ALTERNATING CURRENT MOTOR
RL3698Z

COOLING: FORCE VENTILATED

ACCESSORIES: PROVISIONS FOR TACHOMETER MOUNTING ONLY WHEN SPECIFIED



NOTES:
1. O.D.E. C-FACE & TACHOMETER MOUNTING. 1/2-13 TAP, 1.00 DEEP, ON A ∅7.25 B.C. FACE RUNOUT AND ECCENTRICITY 0.004 MAX. T.I.R.
2. SHAFT HEIGHT WILL NOT BE EXCEEDED. SHIMS UP TO 0.06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
3. REMOVABLE COVER PLATE FOR CUSTOMER DRILLING.

- TERMINAL BOX MAY BE LOCATED F1, F2 OR F3, IF SPECIFIED.
- REFER TO 616779-55 FOR SPECIFIED TACHOMETER DIMENSIONS.
- BLOWER ASSEMBLY CAN BE LOCATED F1, F2, OR F3, IF SPEC'D.
- BLOWER ASSEMBLY AND TERMINAL BOX CANNOT BE LOCATED AT THE SAME POSITION.

DIMENSIONS ARE IN INCHES

MOTOR WEIGHT: 1710 LBS. (MAY VARY 15% FOR NON-STANDARD RATINGS AND / OR ACCESSORIES.)

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

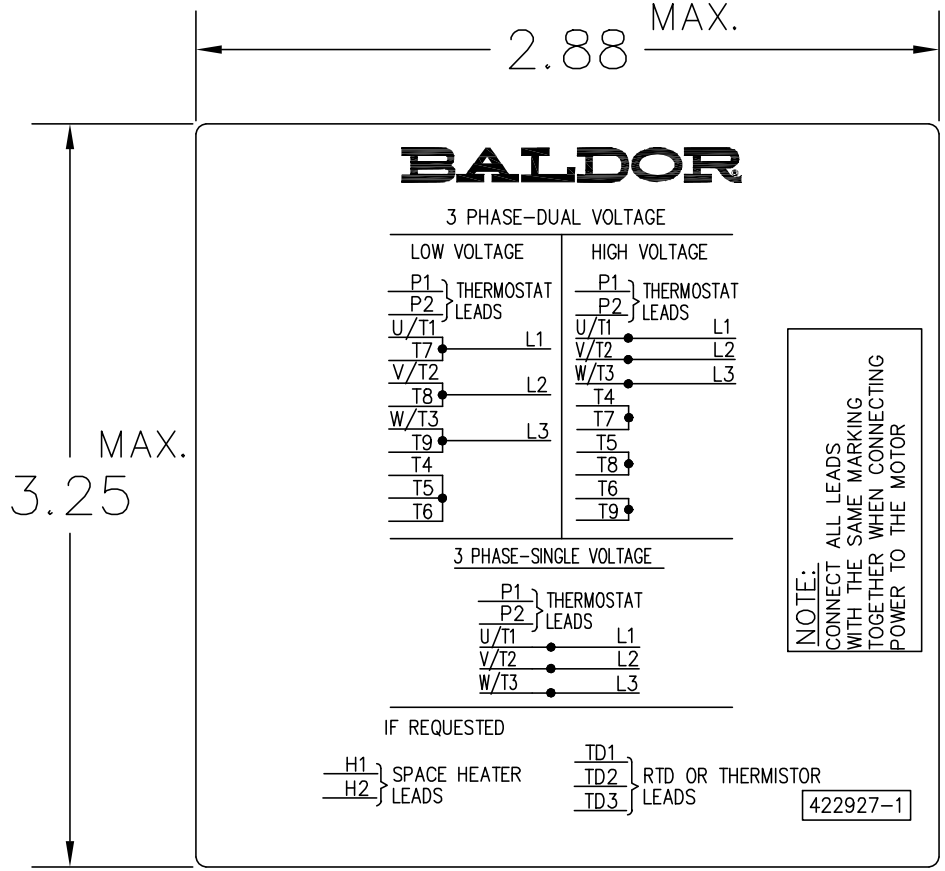
REV. DESC: ADD MISSING DIMENSIONS			
REV: D	VERSION: 04	REVISED: 11:45:45 05/13/2016	TDR: 000000979977
MODEL NO. 619680-001			REF: -
BY: RGGWT			B

BALDOR

DIM SHEET,RL3698Z,RPM-AC,FV

619680-001

422927–001



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

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			BALDOR
REV. LTR: B	VERSION: 02	TDR: 000000788708	
FILE: \RGG\00000\203		REVISED: 08:09:29 03/04/2013	EXTERNAL CONNECTION LABEL
MTL: –		BY: RGGWT	SH 1 of 1