ABB BALDOR RELIANCE

Customer information packet

IDBRPM321504R1

150HP, 1750, 460V, FL3203, TEBC, F3

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Specifications

Enclosure	TEBC
Frame	FL3203Z
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	150.000 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	179.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	FL
Heater Indicator	No Heater
High Voltage Full Load Amps	179.0 a
Insulation Class	H
IP Rating	NONE
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	55.48 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	1780 rpm
Thermal Device - Bearing	None

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	L6805A
Layout	619689-001
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	1780	179	460	60
CONT	150	3555	171	460	120

CAT.NO.	IDBRPM321504R1		**SPEC. NO.**	F32-A000-0008			
SER.NO		**FR**	FL3203Z	**INSUL**	H		
PH.	3	**MAX SAFE SPEED**	4000	**AMB.**	40	**MIN. AMB.**	-25
DESIGN NO.	L6805A	**TYPE**		**ENCL.**	TEAO-BC		
S.F.	1.00	**D.E. BRG.**	85BC02J30X				
ENCL MOD		**O.D.E. BRG.**	65BC03J30X				

Parts List

Part number	Description	Quantity
WS303309	WS F32-A000-0008	1.000 ea
RA299518	RA F32-A000-0008	1.000 ea
418018122A	LABEL	2.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
000613006MY	NP-RPMAC INVERTER DUTY	1.000 ea
000692000NH	LABEL DIRECTION AIR FL	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
807584004AAB	BRKT,FL320,ODE 807584001WCB	1.000 ea
807584003AAA	BRKT, DE, FL320	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
036140001E	EYEBOLT	2.000 ea
036100090KA	HSHCS BRACKET LE	4.000 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
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
611917002F	GASKT	1.000 ea
804814055A	PLATE, BLWR MTG, FL320	1.000 ea
036000016JB	HHCS M8-1.25X16MMPLTD-250	4.000 ea
032018006CK	HHCS 3/8-16X3/4L PLATED 411409	4.000 ea
804814053A	CVR, FAN, FL320, TOP MT	1.000 ea
036000020KB	MHHCS M10-1.5X20MM PLTD.	12.000 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
036000016KB	HHCSM10-1.5X16MM PLTD-280	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
804814054A	GUARD, FAN, FL320	2.000 ea
708528004B	BLOWER HOUSING	1.000 ea
410978010E	INLET FLGE	1.000 ea
410978019A	SCREEN, INLET FLANGE	1.000 ea
406673002K	PLUG,CAP	1.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
036620010AB	M10 EXT. TOOTH LK WASHER	1.000 ea
034630001AJ	1/8" PIPE COUPLING	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
613439051A	ADAPT,CBOX,RL320	1.000 ea
034530016AB	P/NIP 1/8X2 PLATED - 320	1.000 ea
418014004A	609185004cDPT/BOX	1.000 ea
036600008AD	FLTWSHR,T BLK SPT	8.000 ea
804814051A	BRACE, FAN CVR, FL320	4.000 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
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
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	TEBC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	FL3203	AMPS	179	MAX SAFE RPM	4000	(AT BASE RATING, 25 °C)			
HP	150	DUTY	CONT	IM (AMPS)	73	R1	.0159	X1	.105
BASE SPEED	1780	S.F.	1.0	P.F.@NL/FL	.032/.837	R2	.0113	X2	.143
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK^2 ($Lb-Ft^2$)	21			XM	3.36

RATED FULL LOAD DATA

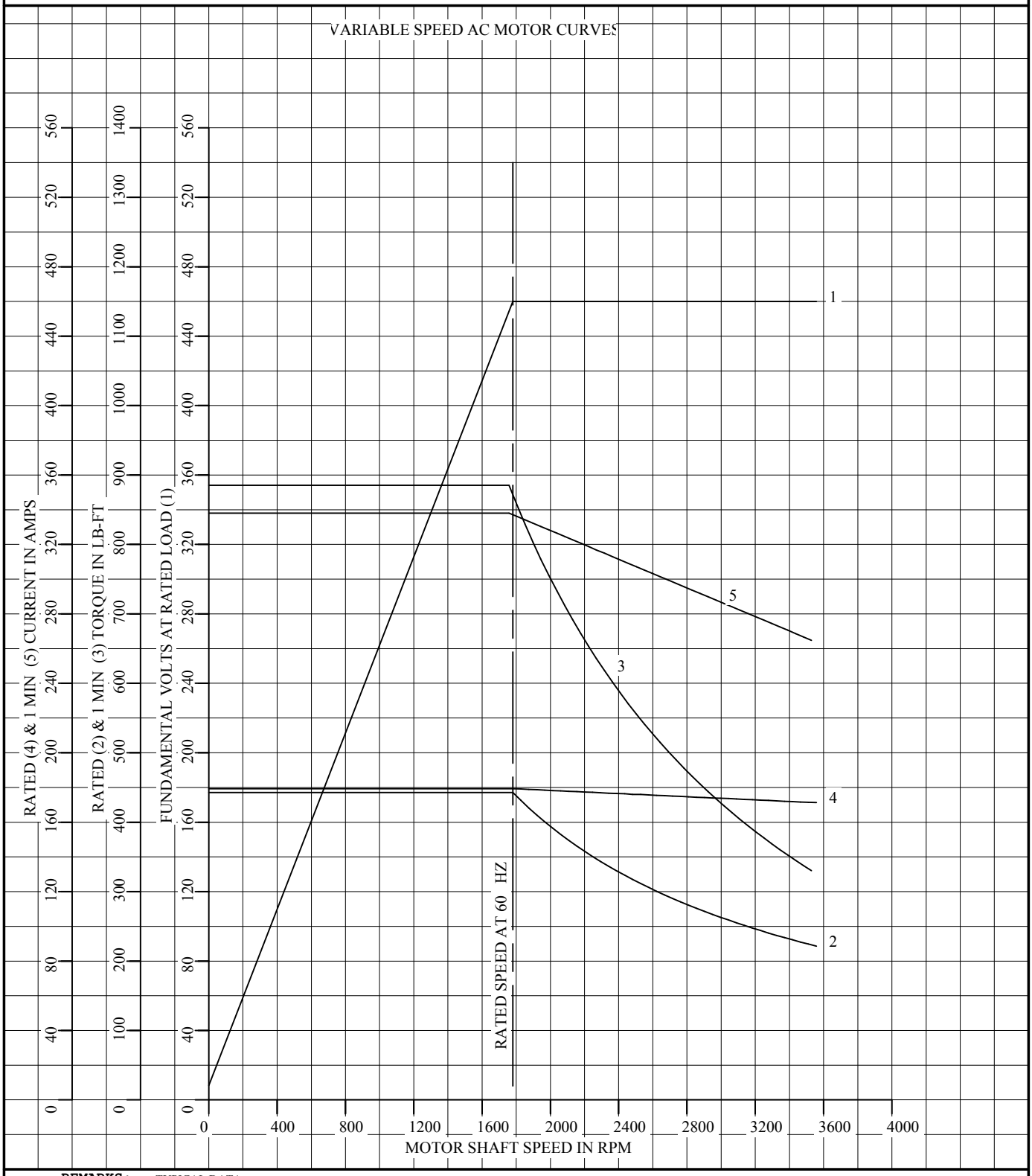
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1780	150	443	460	60	179
MAX SPEED	3557	150	221	460	120	171
MIN SPEED	0	0	443	8.33	.654	179

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	73.0
1/4	1795	37.5	110	460	60	89.0
1/2	1790	75.0	220	460	60	113
3/4	1786	112	331	460	60	144
FULL LOAD	1780	150	443	460	60	179
O/L	1758	296	885	460	60	338

REMARKS: TYPICAL DATA

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 ℃)	
FRAME	FL3203	AMPS	179	MAX SAFE RPM	4000		
HP	150	DUTY	CONT	IM (AMPS)	73	R1 .0159	X1 .105
BASE SPEED	1780	S.F.	1.0	P.F.@NL/FL	.032/.837	R2 .0113	X2 .143
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/H	WK^2 (Lb-Ft^2)	21		XM 3.36



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

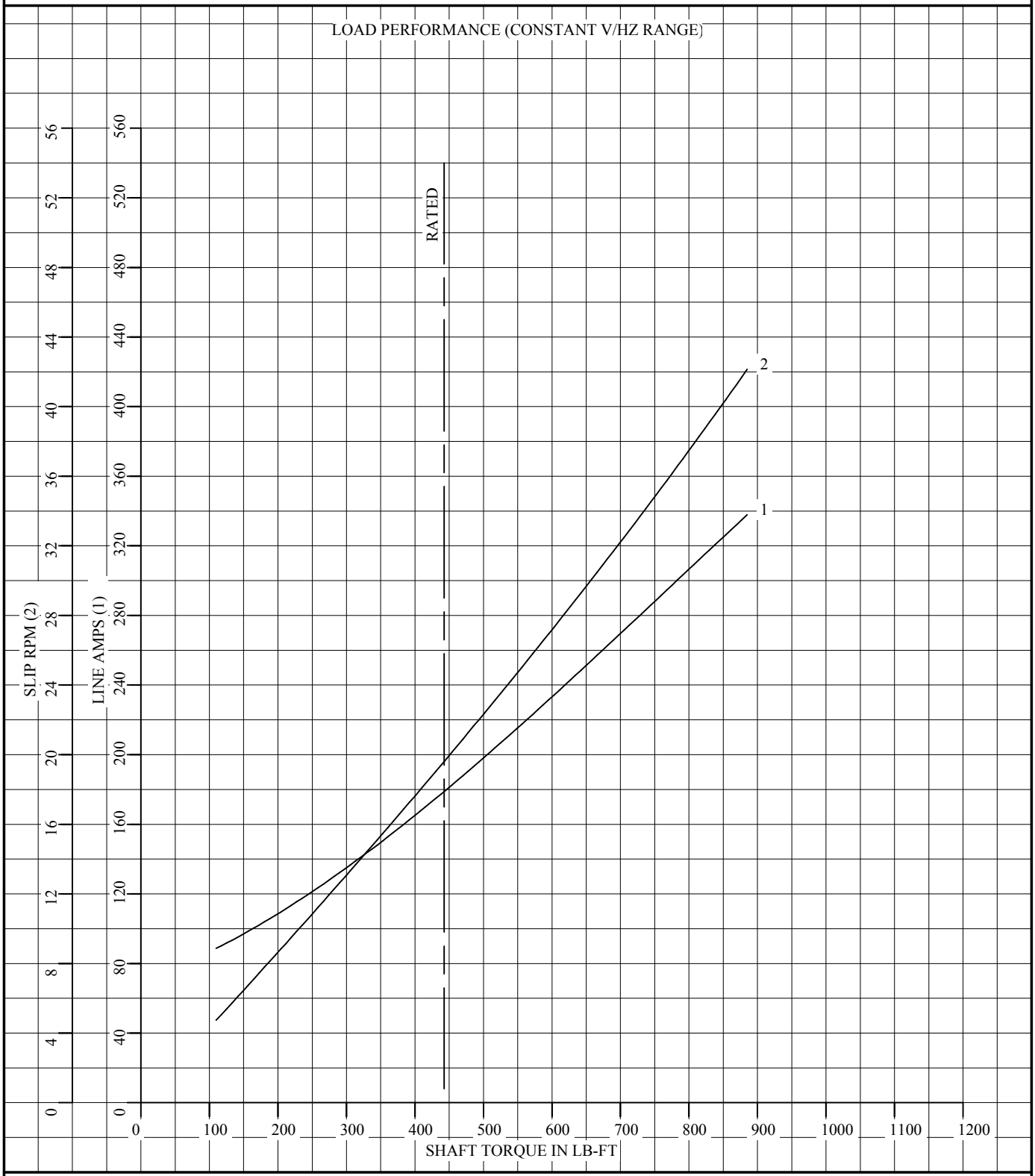
BALDOR A MEMBER OF THE ABB GROUP

DR. BY R. ROBERTS
CK. BY B. GRANT
APP. BY J. MARTIN
DATE 11-24-15

A-C MOTOR PERFORMANCE CURVES

L6805A
SH 1 OF 2
ISSUE DATE 8-29-16

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 °C)	
FRAME	FL3203	AMPS	179	MAX SAFE RPM	4000		
HP	150	DUTY	CONT	IM (AMPS)	73	R1 .0159	X1 .105
BASE SPEED	1780	S.F.	1.0	P.F.@NL/FL	.032/.837	R2 .0113	X2 .143
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK^2 (Lb-Ft^2)	21		XM 3.36



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

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A-C MOTOR PERFORMANCE CURVES

L6805A
SH 2 OF 2
ISSUE DATE 8-29-16

RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING CURRENT MOTOR
FL3203Z

619689-001

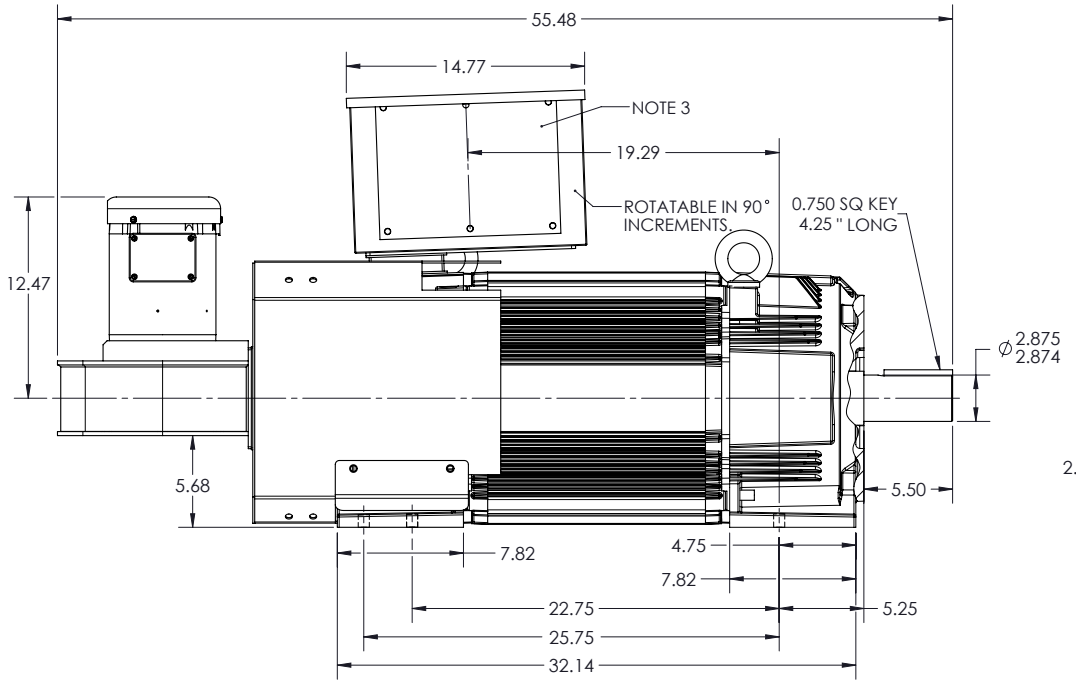
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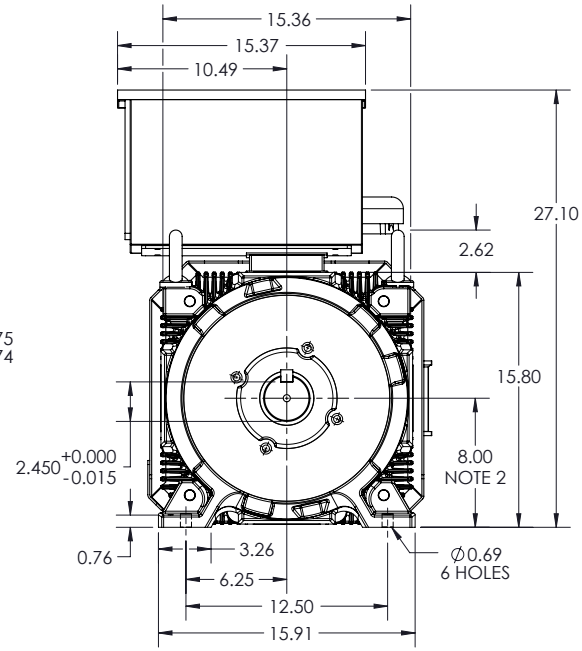
MOUNTING: FOOT

DRIVE METHOD: COUPLED OR BELTED

COOLING: BLOWER COOLED

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.

DIMENSIONS ARE IN INCHES

MOTOR WEIGHT: 1400 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

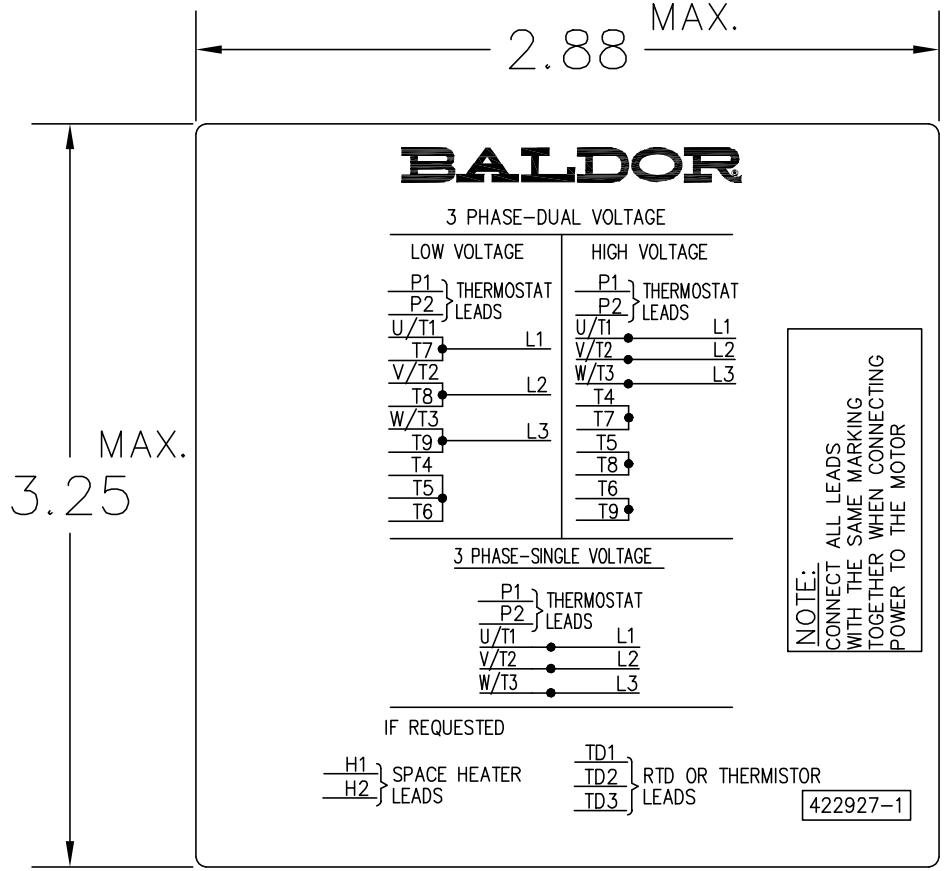
REV. DESC: INITIAL RELEASE			
REV: -	VERSION: 00	REVISED: 11:17:03 12/17/2014	TDR: 000000860207
MODEL NO. 619689-001			REF: -
BY: MGHTLC			B

BALDOR

DIM SHEET,FL3203Z,RPM-AC,TEBC

619689-001

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