ABB BALDOR RELIANCE

Customer information packet

XEFRPM21104

10HP, 1800, 460V, HL215T, TEFC, F1

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Specifications

Enclosure	TEFC
Frame	HL215T
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	NEMA PREMIUM
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1-60
Current @ Voltage	10.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	HL
Heater Indicator	No Heater
High Voltage Full Load Amps	10.0 a
Insulation Class	H
KVA Code	G
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	21.72 IN
Product Family	Fan - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	LS7015A
Layout	619704-001
Eff. date	04-23-2019
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	05-20-2016

Speed	1800 rpm
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007QF

DUTY	HP	RPM	AMPS	VOLTS	HZ
CONT	10	1800	10.0	460	60

CAT.NO.	XEFRPM21104		**SPEC. NO.**	H21-A000-0001							
SER.NO			**FRAME SIZE**	HL215T		**TYPE PSM**					
AMB.	40	**S.F.**	1.15	**ENCL.**	TEFC	**PH**	3	**DESIGN**	B	**CODE**	G
NEMA NOM. EFF	94.6	**GUARANTEED EFFICIENCY**	93.7	**POWER FACTOR**	98.1	**INSUL. CLASS**	H				
D.E. BRG.	45BC02J30X		**O.D.E. BRG.**	35BC02J30X							
VPWM INVERTER DUTY @1.0SF	**CHP HZ**	60-90	**CT HZ**	1-60		**VT HZ**	0-60				
	X/T										

000692000VY

MEAS OPEN CIRCUIT VOLTAGE

IS **VOLTS AT** **RPM.**

Parts List

Part number	Description	Quantity
WS313087	WS H21-A000-0001	1.000 ea
RA309316	RA H21-A000-0001	1.000 ea
411716004A	219P039 - 219P039 - LA	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
000613007QF	NP,RPM AC - XE WITH CERTIFIED LOGO	1.000 ea
000613006ABP	RPM-XE,EXTREME EFFICIENCY,UL LISTED	1.000 ea
000692000VY	PERMANENT MAGNET MOTOR NAMEPLATE	1.000 ea
422927001	C/D LABEL	1.000 ea
004824007AB	PAINT,XT	0.100 ea
418057243A	GROOVE PIN	1.000 ea
807504052B	FL180 FRAME	1.000 ea
810105004AAC	BRKT,ODE,LSPM180 (FL210)	1.000 ea
810105003AAA	BRKT,DE,LSPM180 (FL210)	1.000 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	0.100 lb
036000050JB	M8-1,25 X 50 MHHCS	2.000 ea
032018014AK	HHCS 1/4-20X1-3/4 PLTD.	3.000 ea
415045002J	SLGR	1.000 ea
415045002H	SLGR	1.000 ea
400638001D	WAVEN (Customer number 43699)	1.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	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
036140001B	METRIC EYEBOLT	2.000 ea
033102012AG	HXNUT LEAD CONN 1/4-20 GR5 ZP	4.000 ea
033070170HH	STUD 1/4 X 10.625	4.000 ea
033102012AG	HXNUT LEAD CONN 1/4-20 GR5 ZP	4.000 ea
415000103G	TLUG	1.000 ea
415072001A	CLAMP	1.000 ea

417733001A	GSK C/ BOX BASE	2.000 ea
034180010DA	KEY 1/4X1/4X1-1/4L	1.000 ea
078546001G	FAN 180	1.000 ea
807505505A	COVER,FAN,HL210	1.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	4.000 ea
036000045JB	M8-1.25 X 45MM HXHCS	4.000 ea
418010006A	CAST,MPLATE,180-280,EX1,7BY	1.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
406673002AE	2" CAP PLUG	1.000 ea
036620009AB	M8 EXTERNAL LK WASHER	1.000 ea
036601008AB	M6 FLAT WASHER	4.000 ea
706320004C	CBOX REPL 705028-2C MTRC	1.000 ea
075459000A	C/BOX CVR W75459	1.000 ea
065564000D	GASK 210-250	1.000 ea
036000012HB	HHCS M6X12MM LONG PLATED	2.000 ea
034180020EA	KEY 5/16X5/16X2-1/2 L	1.000 ea
004824007K	SPECIAL PAINT	0.100 ea
LB1549	LABEL, BLANK 1.375 X 2.250 IMPRINTABLE	1.000 ea

S.O.	FRAME	HP	TYPE	PHASE	HERTZ	RPM
--	HL215T	10	PSM	3	60	1800

VOLTS	AMPS	DUTY	AMB°C	INSUL	S.F.	NEMA DESIGN
460	10.1	CONT	40	H	1.15	B

CODE LETTER	ENCL	ROTOR INERTIA ($lb\text{-}ft^2$)	STATOR RES.@ 25°C OHMS (BETWEEN LINES)	
G	TEFC	.60	1.113	TYPICAL DATA

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	5.6	1800	4.90	N/A
1/4	2.50	4.4	1800	59.6	89.9
2/4	4.99	5.6	1800	89.4	93.7
3/4	7.49	7.7	1800	96.5	94.5
4/4	9.99	10.1	1800	98.1	94.6
5/4	12.5	12.6	1800	98.3	94.4

SPEED TORQUE

	RPM	TORQUE (% FULL LOAD)	TORQUE (lb-ft)	AMPERES
LOCKED ROTOR	0	169	49.4	75.0
PULL OUT	1800	299	87.2	39.5
FULL LOAD	1800	100	29.1	10.1

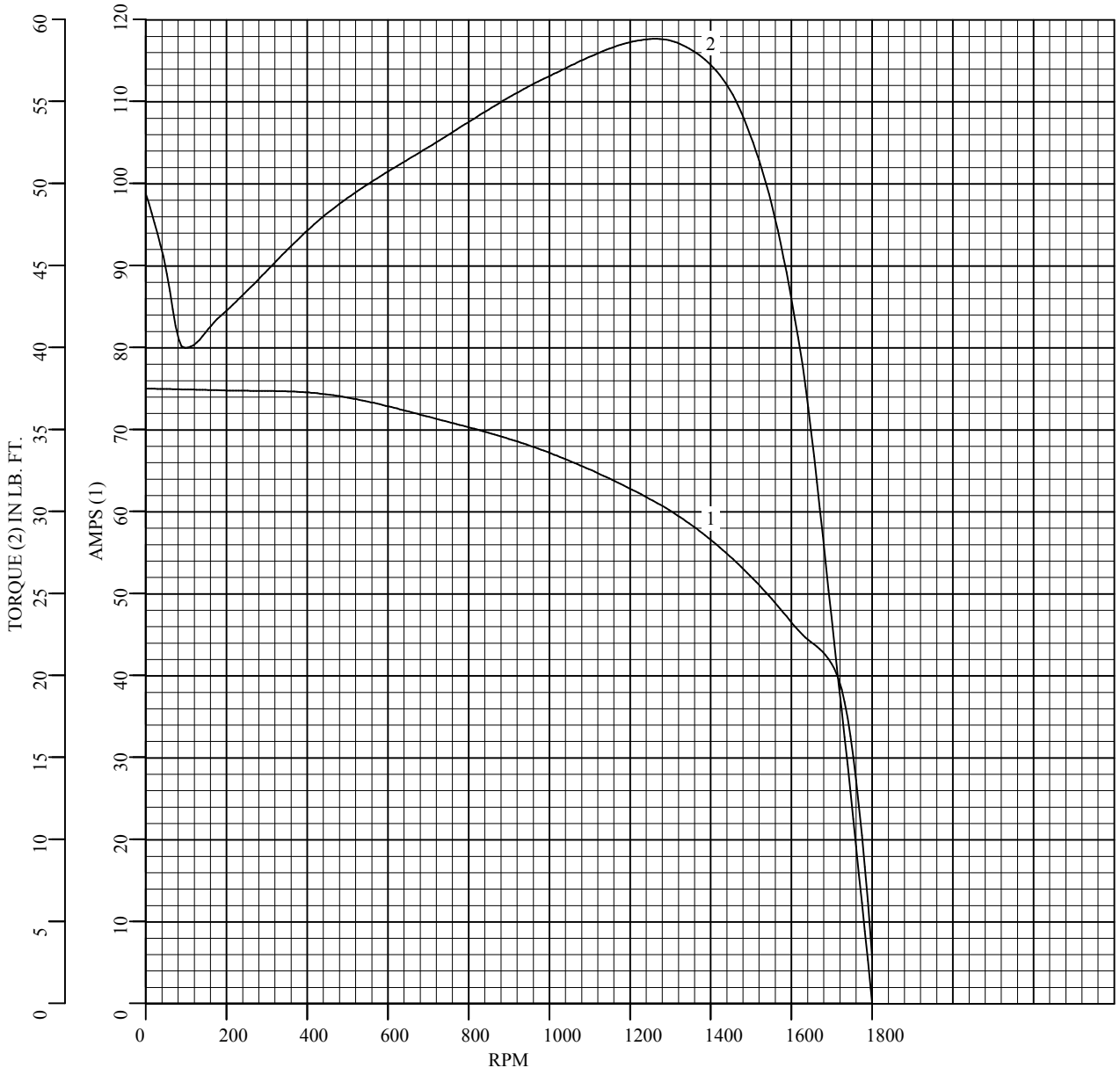
THIS IS A PERMANENT MAGNET MOTOR

GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25°C = 20.3 VOLTS PER 100 RPM

REMARKS:

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL215T	RPM	1800	INSUL	H	WK² (lb-ft²)	.60
HP	10	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	10.1	ENCL	TEFC	STATOR RES.@ 25°C	1.113
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

Amps & Torque vs. RPM
During Acceleration



TYPICAL DATA

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	CAD
CK. BY	RFM
APP. BY	RFM
DATE	05/25/2016

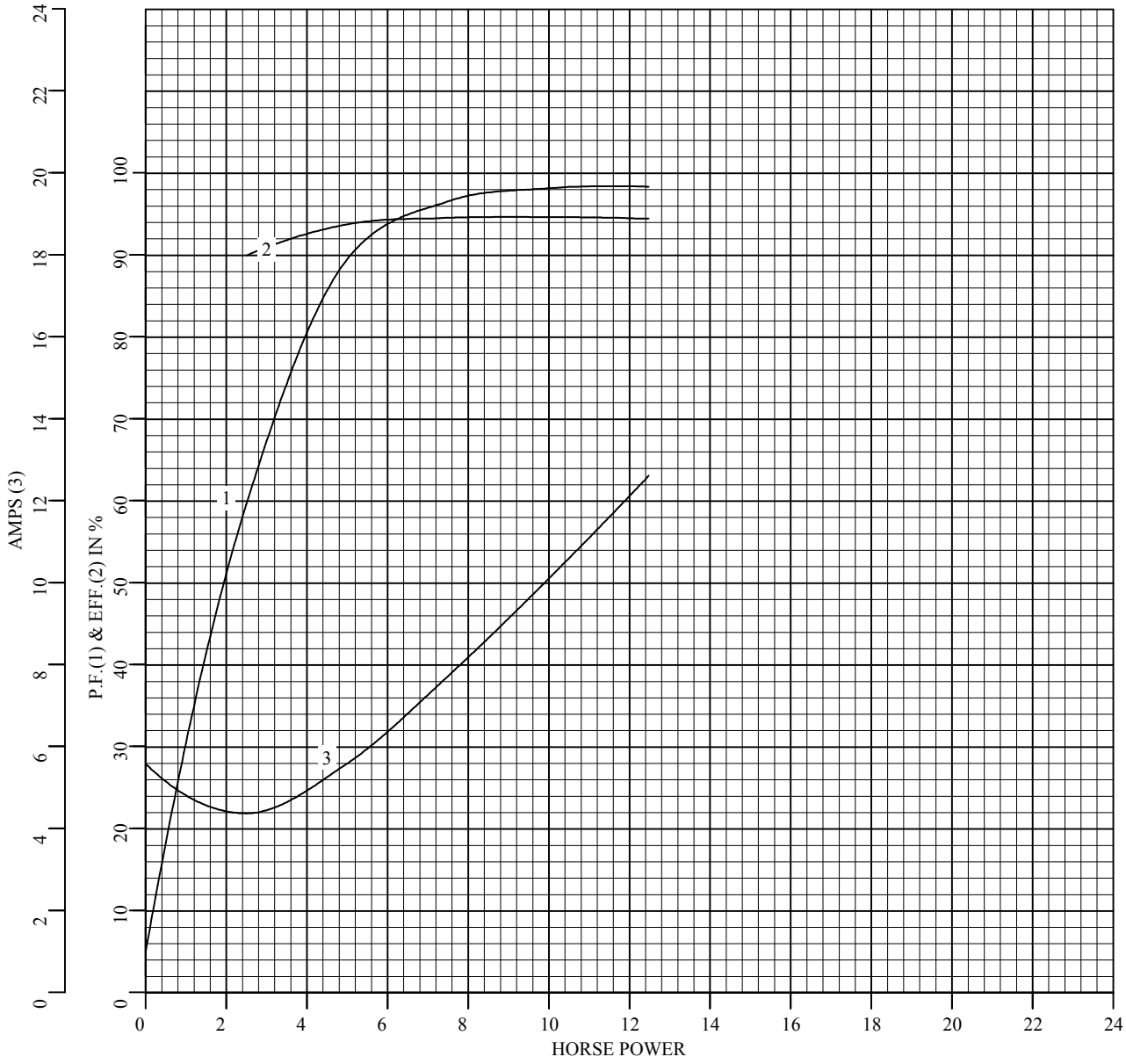
LSPM MOTOR PERFORMANCE CURVES

LS7015A

ISSUE DATE 05/25/2016

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL215T	RPM	1800	INSUL	H	WK² (lb-ft²)	.60
HP	10	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	10.1	ENCL	TEFC	STATOR RES.@ 25°C	1.113
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

Performance Data vs. HP
At Synchronous Speed



TYPICAL DATA

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DR. BY	CAD
CK. BY	RFM
APP. BY	RFM
DATE	05/25/2016

LSPM MOTOR PERFORMANCE CURVES

LS7015A

ISSUE DATE 05/25/2016

RPM-AC FINNED FRAME ALTERNATING CURRENT MOTOR
HL215T NEMA

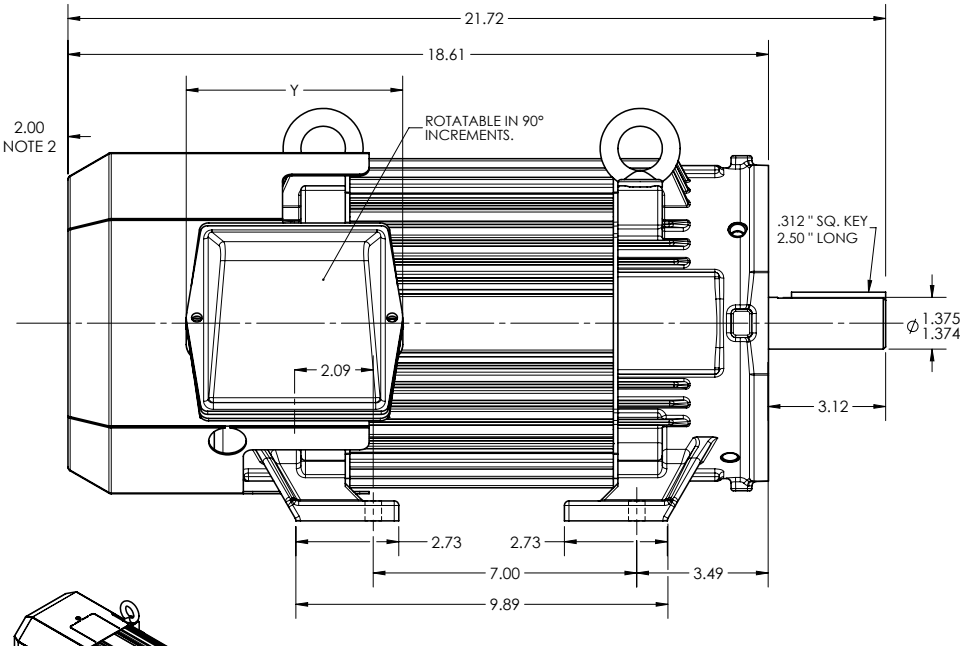
ENCLOSURE: TOTALLY ENCLOSED

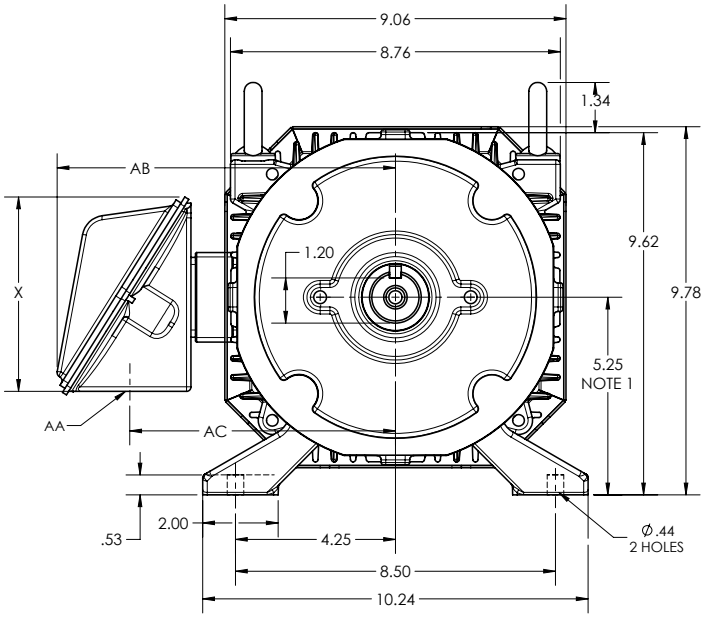
COOLING: FAN COOLED

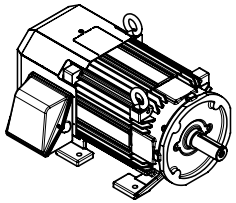
MOUNTING: FOOT

DRIVE METHOD: COUPLED

619704-001







DIMENSIONS ARE IN INCHES

MOTOR WEIGHT: 170 LBS. (MAY VARY 15 % FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.)

TERMINAL BOX MAY BE LOCATED F1, F2, OR F3 IF SPECIFIED.
TERMINAL BOX MAY BE LOCATED DRIVE END OR OPPOSITE DRIVE END IF SPECIFIED.
REFER TO DATA TRANSMITTAL OR PARTS LIST FOR TERMINAL BOX PART NUMBER

TERMINAL BOX	X	Y	AA	AB	AC	MAX AMPS	REMARKS
706320-003A	3.88	5.00	1.12	8.20	6.50	40	STEEL
706320-005A	5.00	6.12	1.75/2.00	9.20	7.06	75	STEEL
706320-005A	5.00	6.12	1.75/2.00	9.20	7.06	85	STEEL - WITH TERMINAL STRIP
706320-004C	5.00	5.75	1.00 TAP	9.10	7.06	60	CAST IRON (AS SHOWN)
706320-004C	5.00	5.75	1.00 TAP	9.10	7.06	85	CAST IRON - WITH TERMINAL STRIP

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

NOTES:
1. SHAFT HEIGHT WILL NOT BE EXCEEDED. SHIMS UP TO 0.06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
2. WALLS OR OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET SPACE.

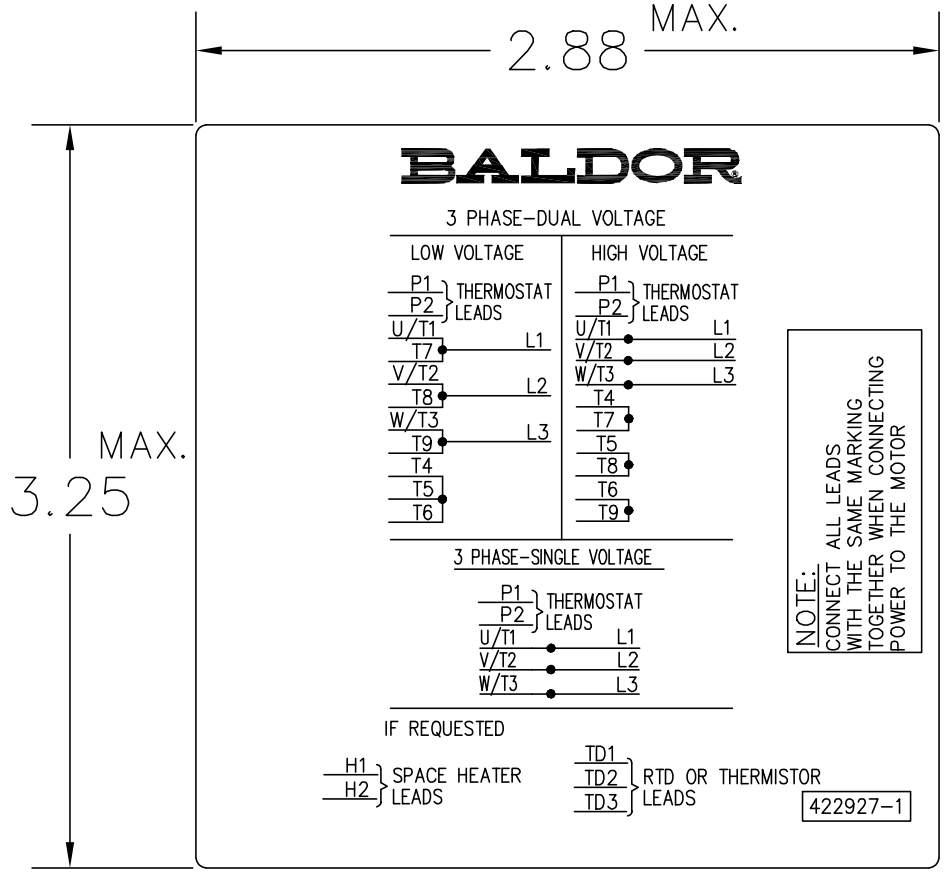
REV. DESC: ADD WRENCH CLEARANCE TO BRACKETS			
REV: C	VERSION: 03	REVISED: 11:04:55 11/04/2016	TDR: 000001000919
MODEL NO. 619704-001			REF: -
BY: USCOCRE			B

BALDOR

DIM SHEET,NEMA HL215T,RPM-AC FL1838,TEFC

619704-001

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