

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM4410004

1000HP, 1785RPM, 3PH, 90HZ, L4461, DPGFV, FOOT

Specifications

Enclosure	DPFV
Frame	L4461
Frame Material	Exposed Laminations
Frequency	90.00 Hz
Output @ Frequency	1000.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 90 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	1202.000 A @ 460.0 V
Duty Rating	CONT
Enclosure Modification	FORCE VENT
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	1202.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	63.63 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	4.250 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1785 rpm
Thermal Device - Bearing	None

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	L2029A
Layout	615917-001
Eff. date	09-25-2018
CD Diagram	422927-001
Poles	06
Leads	
Proprietary	False
Created date	04-09-2015

Thermal Device - Winding

Normally Closed Thermostat

Nameplate

000613006MY									
	DUTY	HP	RPM	AMPS	VOLTS	HZ			
	CONT	1000	1785		1202	460	90		
	CONT	1000	2550		1178	460	128.6		
CAT.NO.	IDDRPM4410004			SPEC. NO.	P44L1344				
SER.NO				FR	L 4461	INSUL	H		
PH.	3	MAX SAFE SPEED			2700	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L2029A			TYPE		ENCL.	DP		
S.F.	1.0			D.E. BRG.	110BC02J30X				
ENCL MOD	FORCE VENT			O.D.E. BRG.	6222MCVL0241				

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE		
FRAME	L4461	AMPS	1202	MAX SAFE RPM	2700	(AT BASE RATING, 25 °C)		
HP	1000	DUTY	CONT	IM (AMPS)	454	R1	.00138	X1 .0257
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.019/.819	R2	.00130	X2 .0360
PHASE/HERTZ	3/90	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	207			XM .580

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1785	1000	2942	460	90	1208
MAX SPEED	2550	1000	2060	460	128.6	1186
MIN SPEED	0	0	2942	4.95	.7324	1208

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	90	445
1/4	1797	250	732	460	90	533
1/2	1793	501	1467	460	90	721
3/4	1789	750	2201	460	90	950
FULL LOAD	1785	1000	2942	460	90	1208
O/L	1776	1493	4413	460	90	1791

REMARKS :



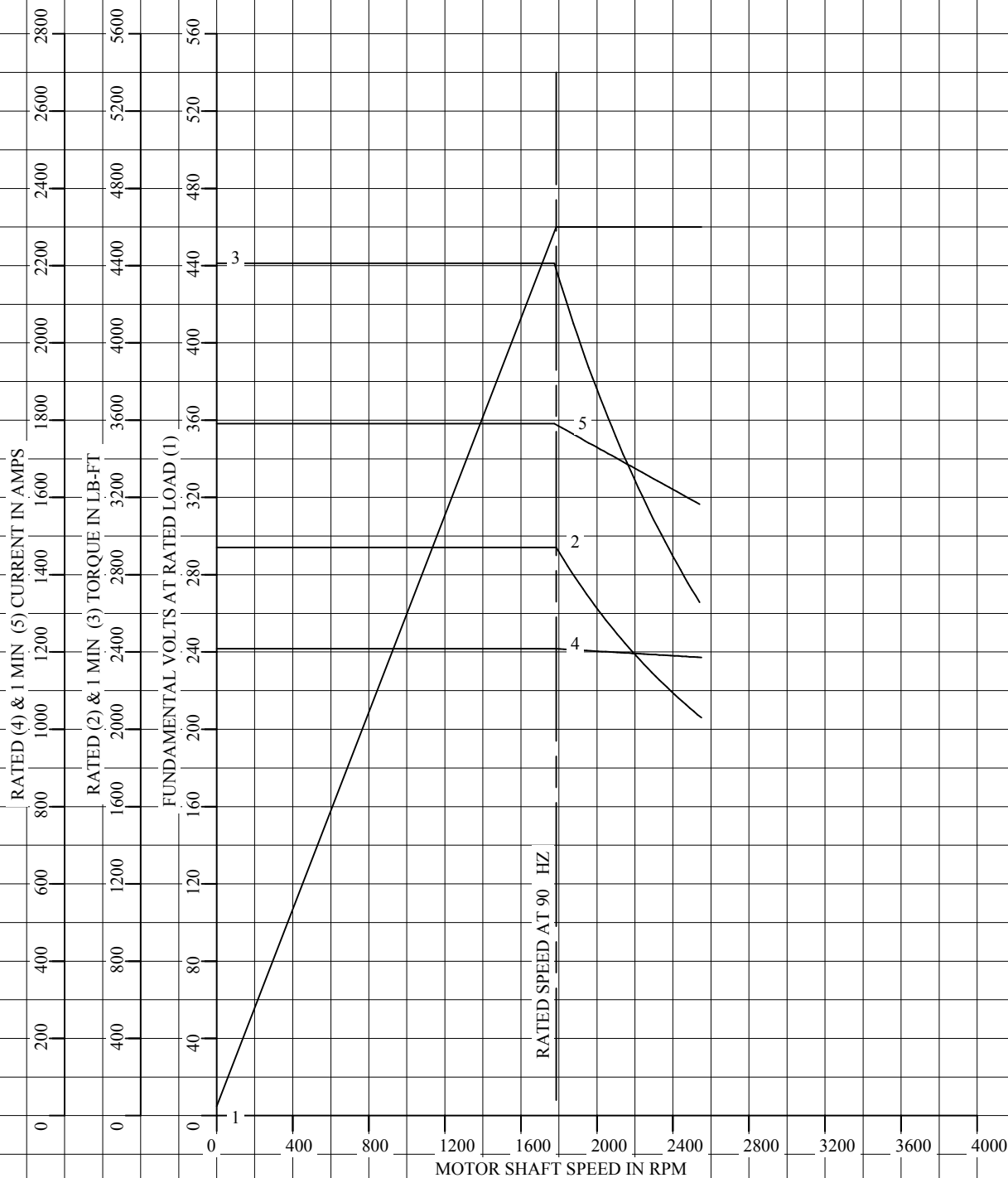
DR. BY	M. MANEY
CK. BY	M. MANEY
APP. BY	T. EVON
DATE	1-23-01

**A-C MOTOR
PERFORMANCE DATA** L2029A

ISSUE DATE 1-23-01

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	L4461	AMPS	1202	MAX SAFE RPM	2700	(AT BASE RATING, 25 °C)	
HP	1000	DUTY	CONT	IM (AMPS)	454	R1 .00138	X1 .0257
BASE SPEED	1785	S.F.	1.0	P.F. @NL/FL	.019/.819	R2 .00130	X2 .0360
PHASE/HERTZ	3/90	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	207	XM .580	

VARIABLE SPEED AC MOTOR CURVES



REMARKS:

DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



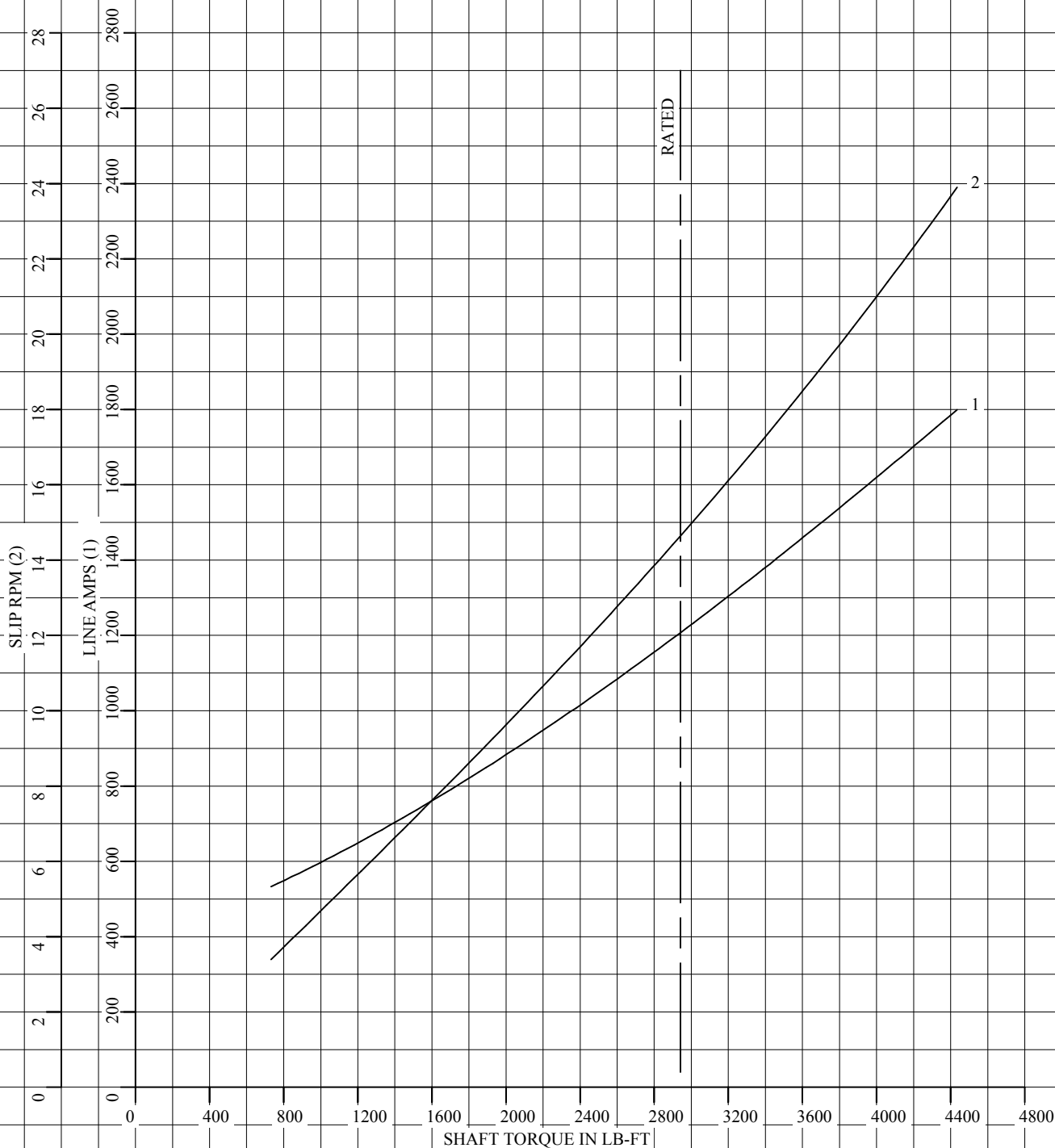
DR. BY M. MANEY
CK. BY M. MANEY
APP. BY T. EVON
DATE 1-23-01

**A-C MOTOR
PERFORMANCE
CURVES**

L2029A
SH 1 OF 2
ISSUE DATE 1-23-01

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	L4461	AMPS	1202	MAX SAFE RPM	2700	(AT BASE RATING, 25 °C)	
HP	1000	DUTY	CONT	IM (AMPS)	454	R1 .00138	X1 .0257
BASE SPEED	1785	S.F.	1.0	P.F. @NL/FL	.019/.819	R2 .00130	X2 .0360
PHASE/HERTZ	3/90	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	207	XM .580	

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



REMARKS:

DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



DR. BY M. MANEY
CK. BY M. MANEY
APP. BY T. EVON
DATE 1-23-01

**A-C MOTOR
PERFORMANCE
CURVES**

L2029A
SH 2 OF 2
ISSUE DATE 1-23-01

615917-001

VARIABLE SPEED ALTERNATING CURRENT MOTORS
RPM AC

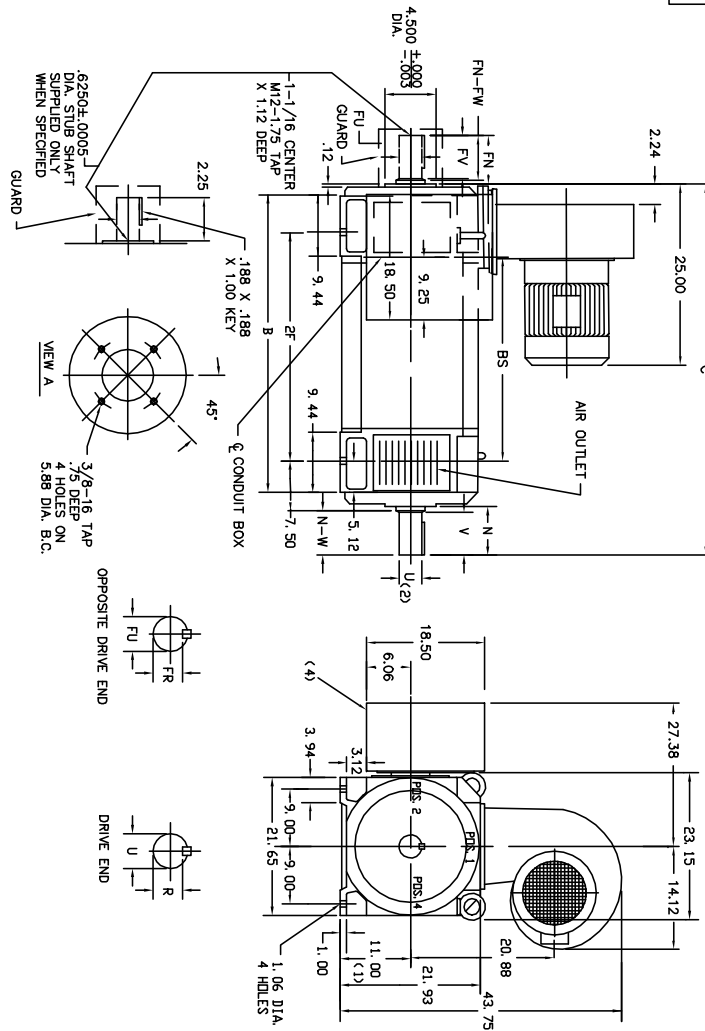
**ENCLOSURE: DRIP-PROOF FULLY-GUARDED
MOUNTING: FOOT**

**COOLING: FORCE VENTILATED
WITH INTEGRAL
BLOWER AND MOTOR**

ACCESSORIES: TACHOMETER PROVISIONS

FRAMES L4429 THRU. L4473

615917-001



	FRAME	DRIVE	C	B	BS	2F	N-1	N-2	U/V	SH/AT	S	R/O	SO	LGTH	IN	FN-FM	TV	FR/3	SO	LGTH	LB	DEPOSIT	DRIVE	END	SHAFT	AND	KEY	U/LB
U4449	COUPLED		55.63	42.48	32.25	9.23	8.75	4.250	8.50	3.660	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	30.04	42.20							
U4449	BELTED		55.63	42.48	27.75	32.25	9.23	8.75	4.500	8.50	3.444	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	30.04							
U4440	COUPLED		58.38	45.23	30.50	35.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	33.07							
U4440	BELTED		58.38	45.23	30.00	35.00	9.23	8.75	4.500	8.50	3.344	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	36.12							
U4451	COUPLED		61.13	47.98	33.25	37.75	9.23	8.75	4.250	8.50	3.660	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	35.07							
U4451	BELTED		61.13	47.98	33.75	37.75	9.23	8.75	4.500	8.50	3.344	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	38.12							
U4461	COUPLED		63.63	50.48	35.75	40.25	9.23	8.75	4.250	8.50	3.660	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	38.89							
U4461	BELTED		63.63	50.48	35.75	40.25	9.23	8.75	4.500	8.50	3.344	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	42.20							
U4473	COUPLED		66.63	53.48	38.75	43.25	9.23	8.75	4.250	8.50	3.660	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	42.20							
U4473	BELTED		66.63	53.48	38.75	43.25	9.23	8.75	4.500	8.50	3.344	1.00	7.00	9.23	8.75	4.250	8.50	3.660	1.00	7.00	45.20							

TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT T-1, SIZES OR BOTTOM, TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED. BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT BLOWER ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION. MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

- (1) "P" DIMENSION WILL NOT BE EXCEEDED, SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "P" VARIES-----: .000 - .001
- (3) "R" VARIES-----: .000 - .015
- (4) REMOVABLE COVER PLATE FOR CUSTOMER DRILLING.

TERMINAL BOX CAN BE POSITIONED FOR EITHER TOP OR BOTTOM CONDUIT ENTRY.

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

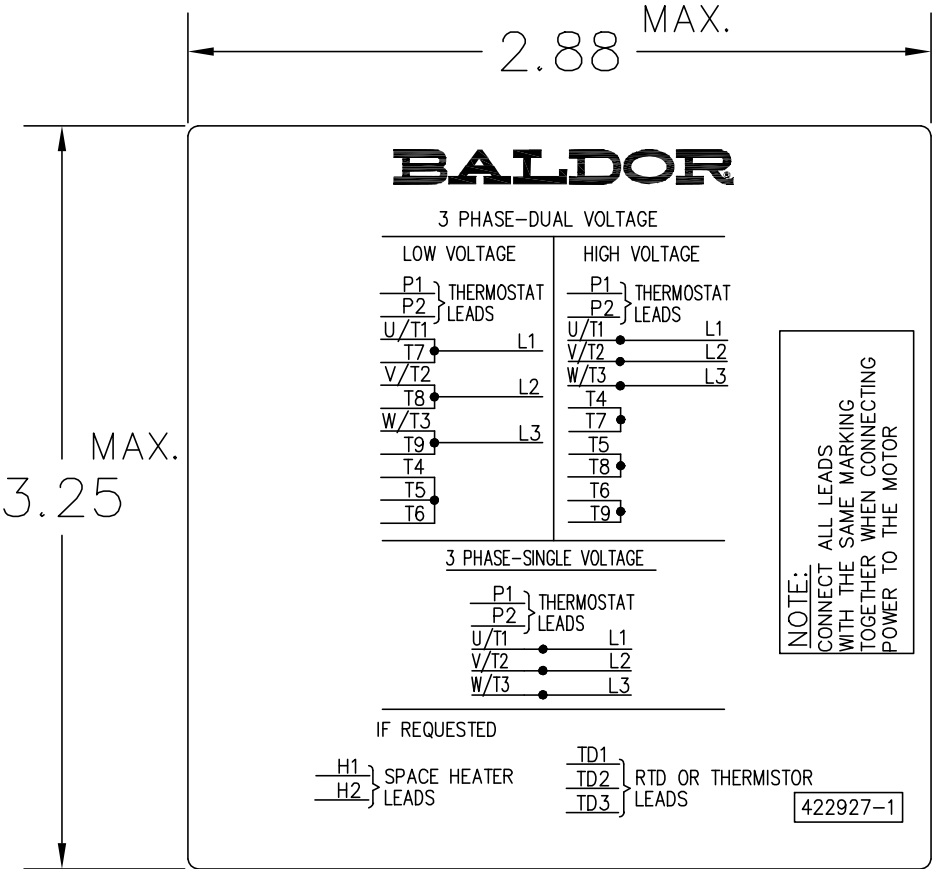
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MTL: -		BY: MGHBM10

Baldor • Dodge • Reliance

DIM SHEET L440 DPFV W/ TACH PROVISIONS

SH 1 of 1

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
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MTL: -	BY: RGGWT	

BALDOR

EXTERNAL CONNECTION LABEL

SH 1 of 1