

BALDOR® • RELIANCE

Product Information Packet

IDFRPM25304C

30 HP 1750 TEFC FL2570C (250TC)

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	L3379A	CD Diagram:	422927-001	Mfg Plant:	
Mech. Spec:		Layout:	617573-023	Poles:	04	Created Date:	04-10-2015
Base:		Eff. Date:	04-13-2015	Leads:			

Specs			
Catalog Number:	IDFRPM25304C		
Enclosure:	TEFC		
Frame:	FL2570C		
Frame Material:	Exposed Laminations		
Output @ Frequency:	30.000 HP @ 60 HZ		
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ		
Voltage @ Frequency:	460.0 V @ 60 HZ		
Agency Approvals:	CCSA US		
	UR		
Auxillary Box:	No Auxillary Box		
Base Indicator:	Rigid		
Bearing Grease Type:	No Grease		
Current @ Voltage:	39.000 A @ 460.0 V		
Duty Rating:	CONT		
Feedback Device:	NO FEEDBACK		
Frame Prefix:	FL		
Heater Indicator:	No Heater		
Insulation Class:	H		

Mounting Arrangement:	TP		
Product Family:	General Industrial		
Pulley End Bearing Type:	Ball		
Pulley Face Code:	C-Face		
Shaft Ground Indicator:	No Shaft Grounding		
Shaft Rotation:	Reversible		
Motor Standards:	NEMA		
Thermal Device - Bearing:	None		
Thermal Device - Winding:	Normally Closed Thermostat		

DUTY		HP	RPM	AMPS	VOLTS	HZ
CONT		30	1780	39	460	60
CONT		30	3555	36	460	120
CAT.NO.	IDFRPM25304C		SPEC. NO. P25T0299			
SER.NO.			FR	FL 2570C		INSUL H
PH.	3	MAX SAFE SPEED		5000		AMB. 40
DESIGN NO.	L3379A		TYPE		ENCL. TEFC	
S.F.	1.0		D.E. BRG.		65BC03JPP30A	
ENCL MOD			O.D.E. BRG.		50BC03JPP30A	

REL. S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN	EQ CKT OHMS PER PHASE
FRAME	FL2570	AMPS	39	MAX SAFE RPM	5000	(AT BASE RATING, 25 °C)	
HP	30	DUTY	CONT	IM (AMPS)	20	R1	.106
BASE SPEED	1780	S.F.	1.0	P.F. @NL/FL	.054/.796	R2	.0656
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (LB-FT ²)	3.5	X1	.513
						X2	.782
						XN	13.4

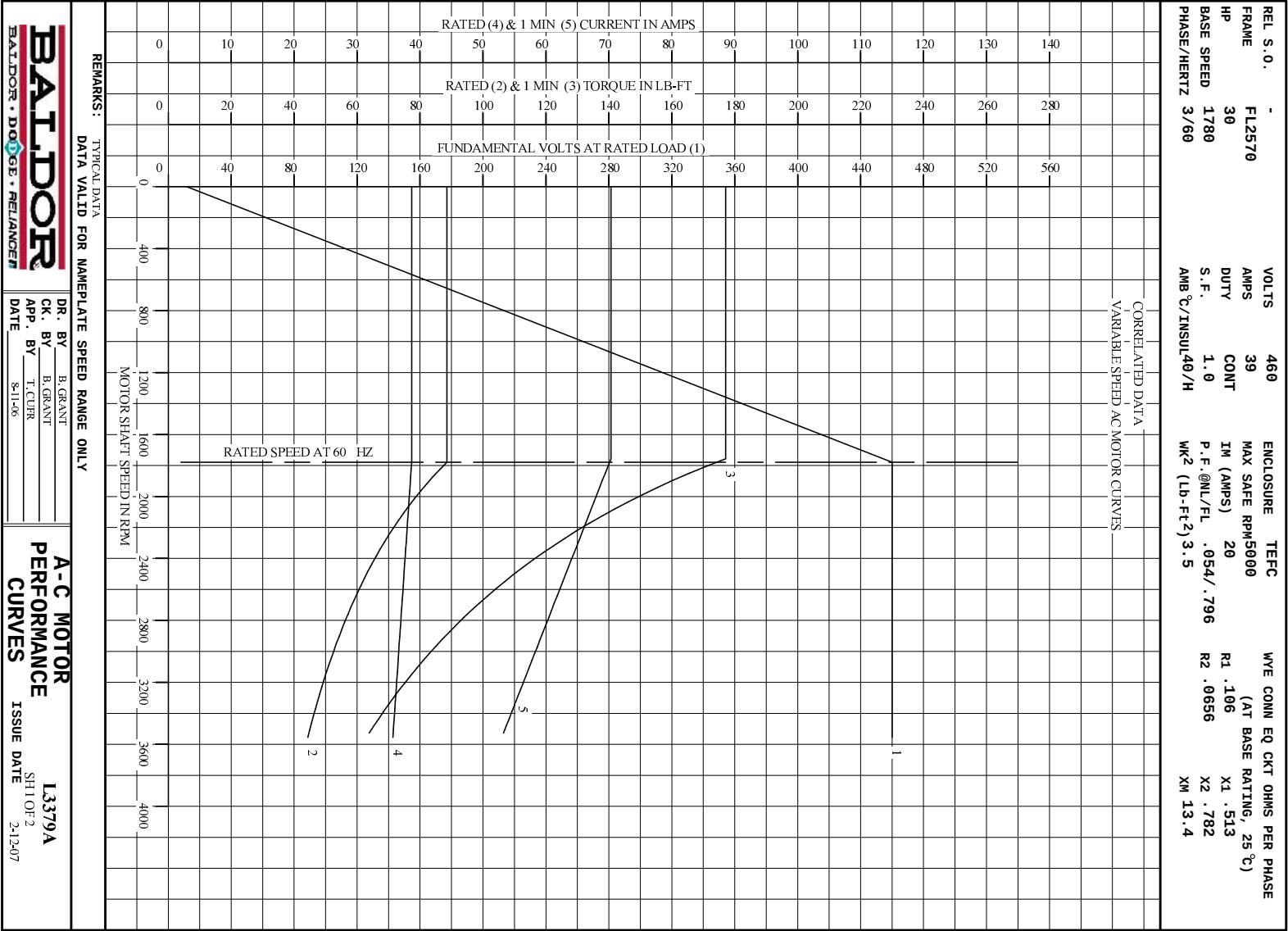
RATED FULL LOAD DATA						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1780	30.0	89	460	60	38.7
MAX SPEED	3555	30.0	44	460	120	35.7
MIN SPEED	0	0	89	11.7	.682	38.7

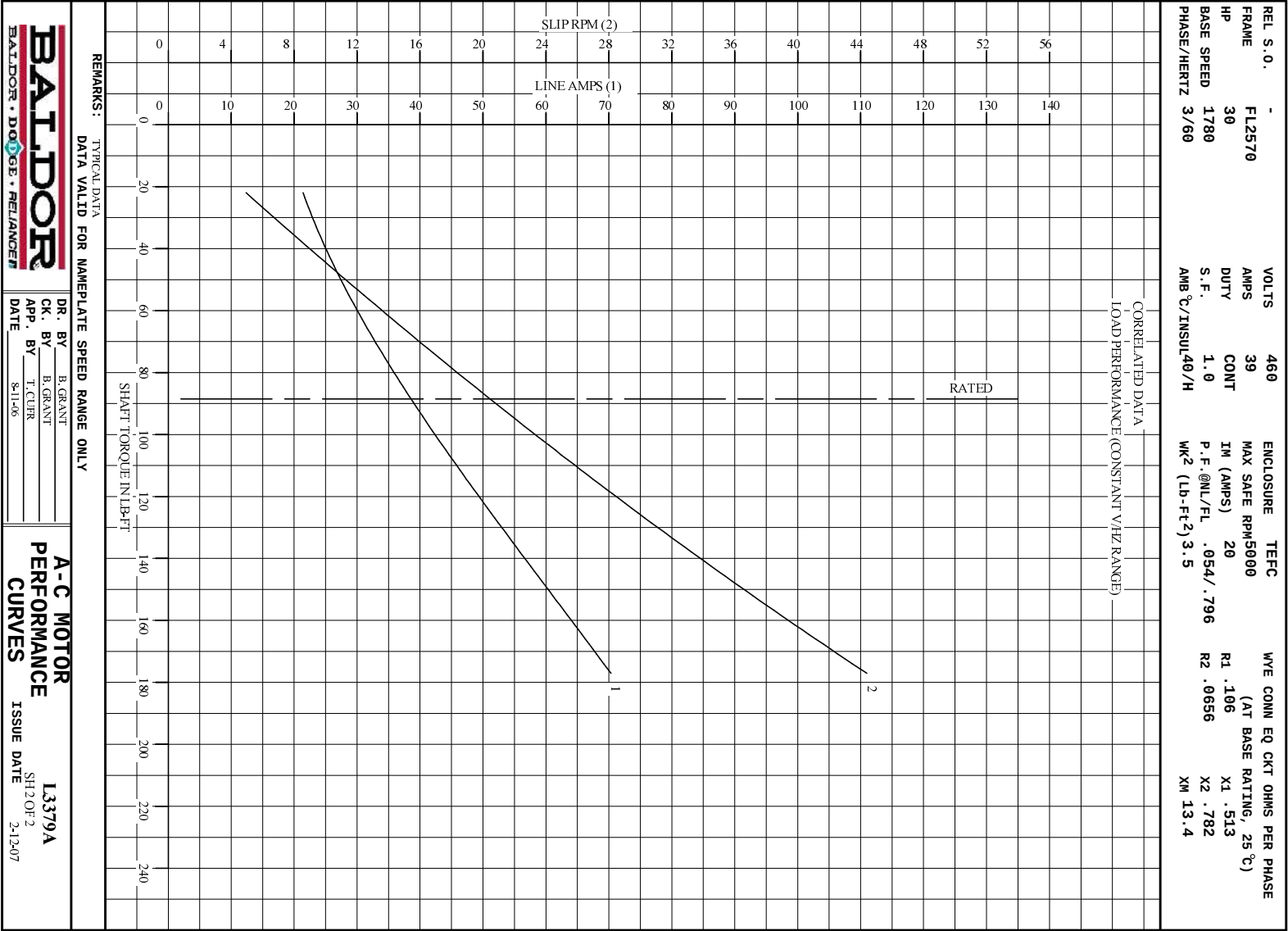
LOAD PERFORMANCE AT BASE SPEED						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	19.3
1/4	1795	7.51	22	460	60	21.5
1/2	1790	15.0	44	460	60	25.8
3/4	1785	22.5	66	460	60	31.8
FULL LOAD	1780	30.0	89	460	60	38.7
0/L	1756	59.2	177	460	60	70.3

BLOWER DATA						
	VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM

REMARKS: TYPICAL DATA
CORRELATED DATA

		DR. BY <u>B. GRANT</u> CK. BY <u>B. GRANT</u> App. BY <u>T. CUPR</u> DATE <u>8-11-06</u>	A-C MOTOR PERFORMANCE DATA L3379A ISSUE DATE 2-12-07
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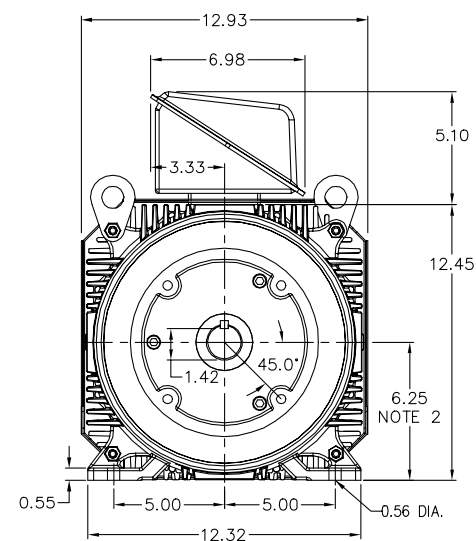
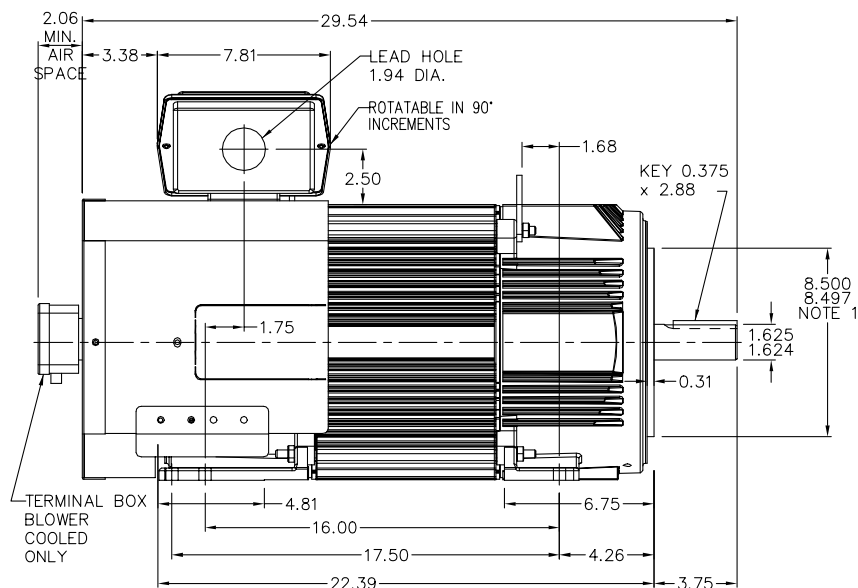
617573-023

RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING CURRENT MOTOR FL2570C

ENCLOSURE: TOTALLY ENCLOSED
 MOUNTING: FOOT / NEMA 250TC C-FACE
 DRIVE METHOD: COUPLED OR BELTED

COOLING: BLOWER COOLED or
 FAN COOLED

ACCESSORIES: PROVISIONS FOR
 TACHOMETER MOUNTING
 ONLY WHEN SPECIFIED



NOTE 1: C-FACE & TACHOMETER MOUNTING
 1/2-13 TAP, 1.00 DEEP, ON A 7.25 DIA. BOLT CIRCLE
 FACE RUNOUT AND ECCENTRICITY 0.004 MAX. T.I.R.

NOTE 2: SHAFT HEIGHT WILL NOT BE EXCEEDED
 SHIMS UP TO 0.03 INCHES IN THICKNESS ARE USUALLY
 REQUIRED FOR COUPLED OR GREARED MACHINES

TERMINAL BOX MAY BE LOCATED F1 OR F2 IF SPECIFIED
 121 AMP STEEL TERMINAL BOX SHOWN
 REFER TO 616779-50 FOR SPECIFIED TERMINAL BOX DIMENSIONS
 REFER TO 616779-55 FOR SPECIFIED TACHOMETER DIMENSIONS

MOTOR WEIGHT: 475 LBS. (MAY VARY 15%)
 DIMENSIONS ARE IN INCHES SCALE: 1.00

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

REV. DESC: ADDED C-FACE DEPTH DIMENSION

REV. LTR: A

VERSION: 01

TDR: 000000493632

FILE: \RGG\00003\142

REVISED: 14:34:48 03/13/2009

BY: CONDLN

MTL: -

BALDOR • DODGE • RELIANCE

DIM SHT FL2570C RPM AC TE FT/NEMA 250TC MTG BLWR OR FAN COOL

SH 1 of 1

617573-023

616779-050

SEE MOTOR D/S

ROTATION IN 90°

LEAD HOLE

TA

Y

XAB

T

XX

XY

OPTIONAL AUXILIARY CONDUIT BOX

FRAME	TYPE	TERMINAL SHIP	AMPS	C/BOX	Y	TA	T	AA
FL180	STEEL	N	40	7063200034	5.00	1.82	3.00	1.12
FL180	STEEL	Y/N	75	7063200034	6.12	2.36	4.38	1.75/2.00
FL180	STEEL	N	208	7063200074	7.62	2.00	7.00	2.50/3.00
FL180	CAST IRON	Y/N	60	706320004C	5.75	2.38	4.38	1.0.1AP
FL180 & FL011	MILL	Y	100	706310006A	7.75	2.50	4.40	P029/P616

F12.0 & R12.0	STEEL	N	61	07/545/0006B	6.34	2.00	4.12	1.25
F12.0 & R12.0	STEEL	N	131	07/545/4001A1	7.69	2.36	5.25	1.34
F12.0 & R12.0	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59
F12.0 & R12.0	CAST IRON	N	110	07/5460042B	7.25	2.50	5.21	1.5
F12.0 & R12.0	MILL	Y	100	706310056A	7.75	2.30	4.40	P029 /Pc16
F12.0 & R12.0	MILL	Y	160	706310056B	9.00	3.06	5.40	Pc36 /Pc16
F12.0 & R12.0	MILL	Y	160	706310056B	9.00	3.06	5.40	Pc36 /Pc16

FL250 & RL250	STEEL	N	260	07/545/2001/J	6.34	2.00	4.12	1.24
FL250 & RL250	STEEL	N	121	07/545/2001/J	7.69	2.36	5.25	1.35
FL250 & RL250	STEEL	N	305	07/545/2001/J	9.00	4.12	8.44	4.59
FL250 & RL250	CAST IRON	N	100	70634000268	7.25	2.50	5.45	1.5 TAP
FL250 & RL250	CAST IRON	N	210	70635001304	10.50	4.88	9.00	4.0 TAP
FL16 & RL16	MILL	Y	100	7063100564	7.75	2.20	5.40	PG22/PG16
FL250 & RL250	MILL	Y	160	7063100568	9.00	3.06	5.40	PG36/PG16
FL250 & RL250	MILL	Y	400	7063100638	14.39	7.43	12.15	BLANK

F1280 & R1280	STEEL	N	160	706320009A	9.00	2.25	3.50	7.00	2.50
F1280 & R1280	STEEL	N	305	706320016A	9.00	4.12	8.44	4.59	8.08
F1280 & R1280	STEEL	N	500	706320017A	11.82	7.56	12.70	5.00	10.00
F1280 & R1280	CAST IRON	N	100	706320013A	10.50	4.88	9.00	4.00	7.00
F1280 & R1280	CAST IRON	N	210	706320015A	10.50	4.88	9.00	4.00	7.00
F1280 & R1280	CAST IRON	N	510	706320004D	15.00	7.56	12.81	5.0 TAP	10.00
F1280 & R1280	MILL	Y	100	706310056A	7.75	2.50	4.40	Pc36/Pg16	
F1280 & R1280	MILL	Y	160	706310056B	9.00	3.06	5.40	Pc36/Pg16	
F1280 & R1280	MILL	Y	160	706310056B	9.00	3.06	5.40	Pc36/Pg16	
F1280 & R1280	MILL	Y	400	706310063B	14.39	7.43	12.15	BLANK	

OPTIMAL AUXILIARY CONJUGATE BOX DIMENSIONS (MAXIMUM)									
FRAME SIZE		XX	XY	PART NUMBER	FRAME SIZE		XX	XY	PART NUMBER
F1200T/L130R200Q10132	7.38	4.25	4.25	602007-26-A	F1200T/L130R200Q10132	10.88	8.00	8.00	706310-3-B
F1250T/L160R250Q10160	8.44	4.25	4.25	602007-26-A	F1250T/L160R250Q10160	11.88	8.00	8.00	706310-3-B
F1300T/L180R300Q10180	9.12	4.25	4.25	602007-26-A	F1300T/L180R300Q10180	12.62	8.00	8.00	706310-3-B

- TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES 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.

REV. DESC: REPLACE CONDUIT BOX TABLE

VERSION: 04

TDR: 000001047838

FILE: \RGG\00003\692

REVISÉ: 11:46:16 10/19/2017

BY: RGGWT

MTL: -

BALDOR

DIM SHT NEMA RL210-RL280 FL180-FL280 IEC RDL132-RDL180

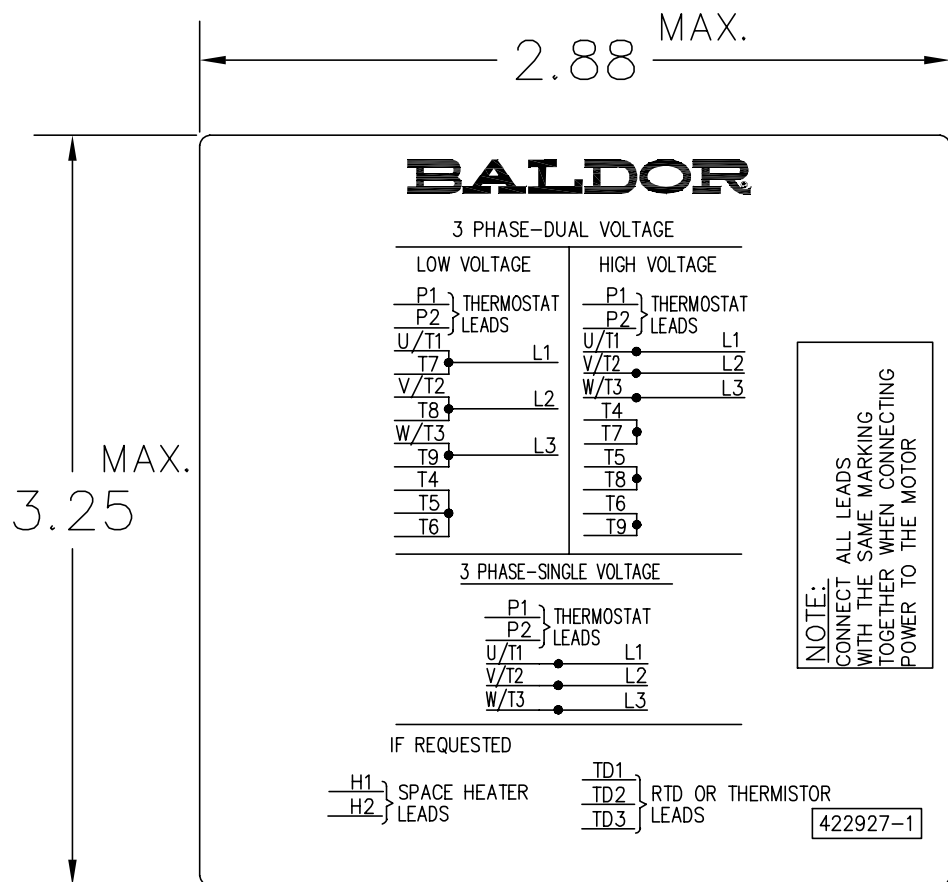
SH 1 of 1

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.



NOTE:
CONNECT WITH THE TOGETHER POWER TO

422927-1

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