

ABB BALDOR RELIANCE III

Customer information packet

IDDRPM403006

300HP, 1180RPM, 3PH, NAHZ, L4034, DPG-FV, FOOT

Specifications

Enclosure	DPFV
Frame	L4034
Frame Material	Exposed Laminations
Frequency	40.00 Hz
Output @ Frequency	300.000 HP @ 40 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 40 HZ
Voltage @ Frequency	460.0 V @ 40 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	355.000 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	355.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	56.88 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	3.624 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 rpm
Thermal Device - Bearing	None

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	L0211A
Layout	609998-001
Eff. date	08-03-2018
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	04-10-2015

Thermal Device - Winding

Normally Closed Thermostat

Nameplate

000613006MY							
	DUTY	HP	RPM	AMPS	VOLTS	HZ	
	CONT	300	1180		355	460	40
	CONT	300	2000		349	460	68
CAT.NO.				SPEC. NO.	P40L0205		
SER.NO			FR	L 4034	INSUL	H	
PH.	3	MAX SAFE SPEED		3750	AMB.	40	MIN. AMB. 0
DESIGN NO.	L0211A	TYPE			ENCL.	DP	
S.F.	1.0	D.E. BRG.		95BC02J30X			
ENCL MOD	FORCE VENT	O.D.E. BRG.		80BC03J30X			

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN	EQ	CKT	OHMS	PER PHASE
FRAME	L4034	AMPS	344.76	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)				
HP	300	DUTY	CONT	IM (AMPS)	110.58	R1	.0117	X1	.0747	
BASE SPEED	1180	S.F.	1.0	P.F.@NL/FL	.044/.886	R2	.00835	X2	.0802	
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	77			XM	2.44	

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1183	300	1332	460	40	344
MAX SPEED	2008	300	784	460	68	341
MIN SPEED	0	0	0	10.0	.582	345

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1200	0	0	460	40	109
1/4	1196	76.3	335	460	40	138
1/2	1192	152	672	460	40	198
3/4	1187	228	1010	460	40	270
FULL LOAD	1183	300	1332	460	40	344
O/L	1172	446	1998	460	40	513

BLOWER DATA

VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM

REMARKS: CORRELATED DATA



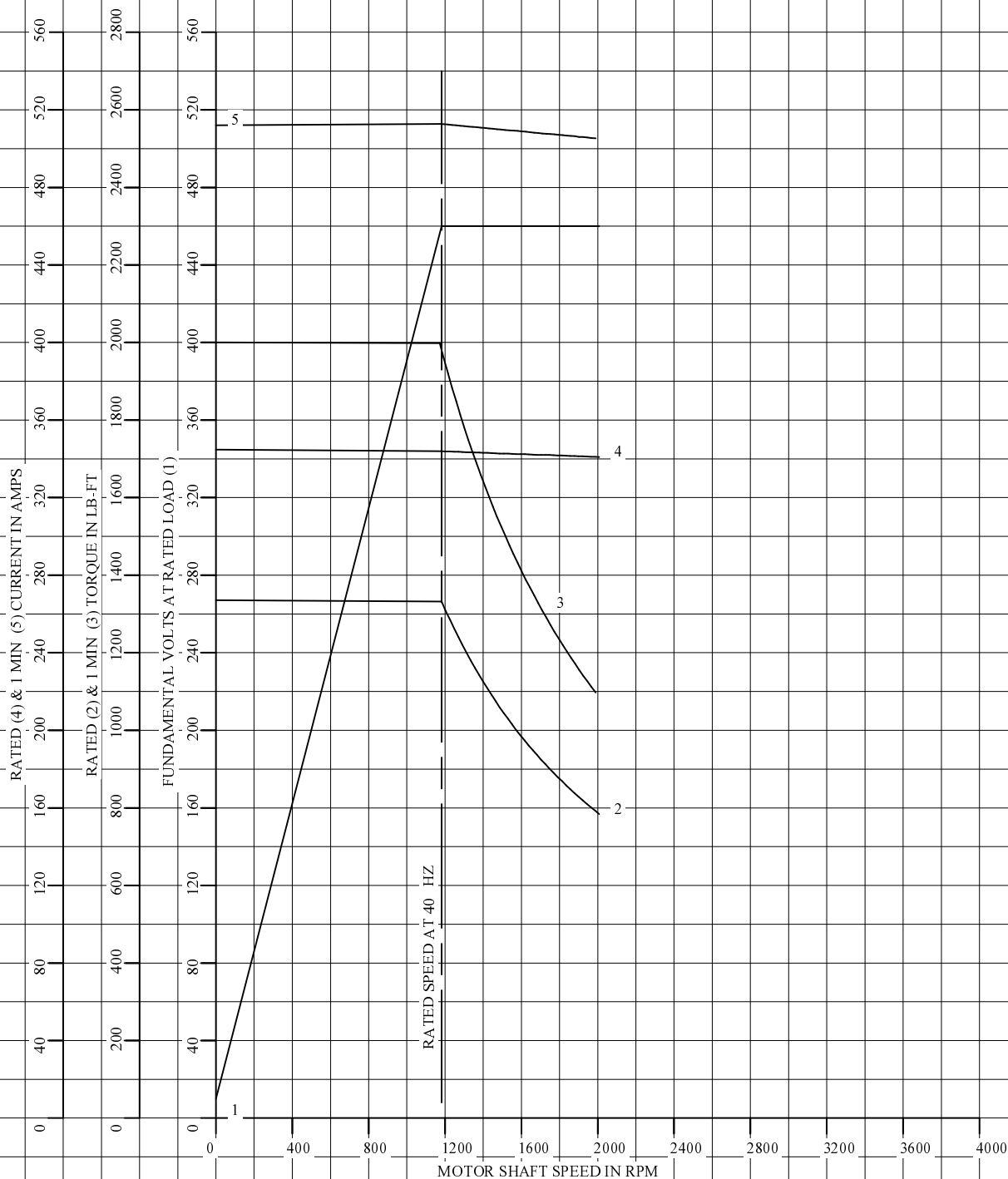
DR. BY	B. GRANT
CK. BY	B. GRANT
APP. BY	T. EVON
DATE	9-30-93

**A-C MOTOR
PERFORMANCE
DATA** L0211A

ISSUE DATE 02/22/99

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN	EQ CKT	OHMS PER PHASE
FRAME	L4034	AMPS	344.76	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)		
HP	300	DUTY	CONT	IM (AMPS)	110.58	R1	.0117	X1 .0747
BASE SPEED	1180	S.F.	1.0	P.F.@NL/FL	.044/.886	R2	.00835	X2 .0802
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	77	XM 2.44		

CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES



REMARKS:

DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. EVON
DATE 9-30-93

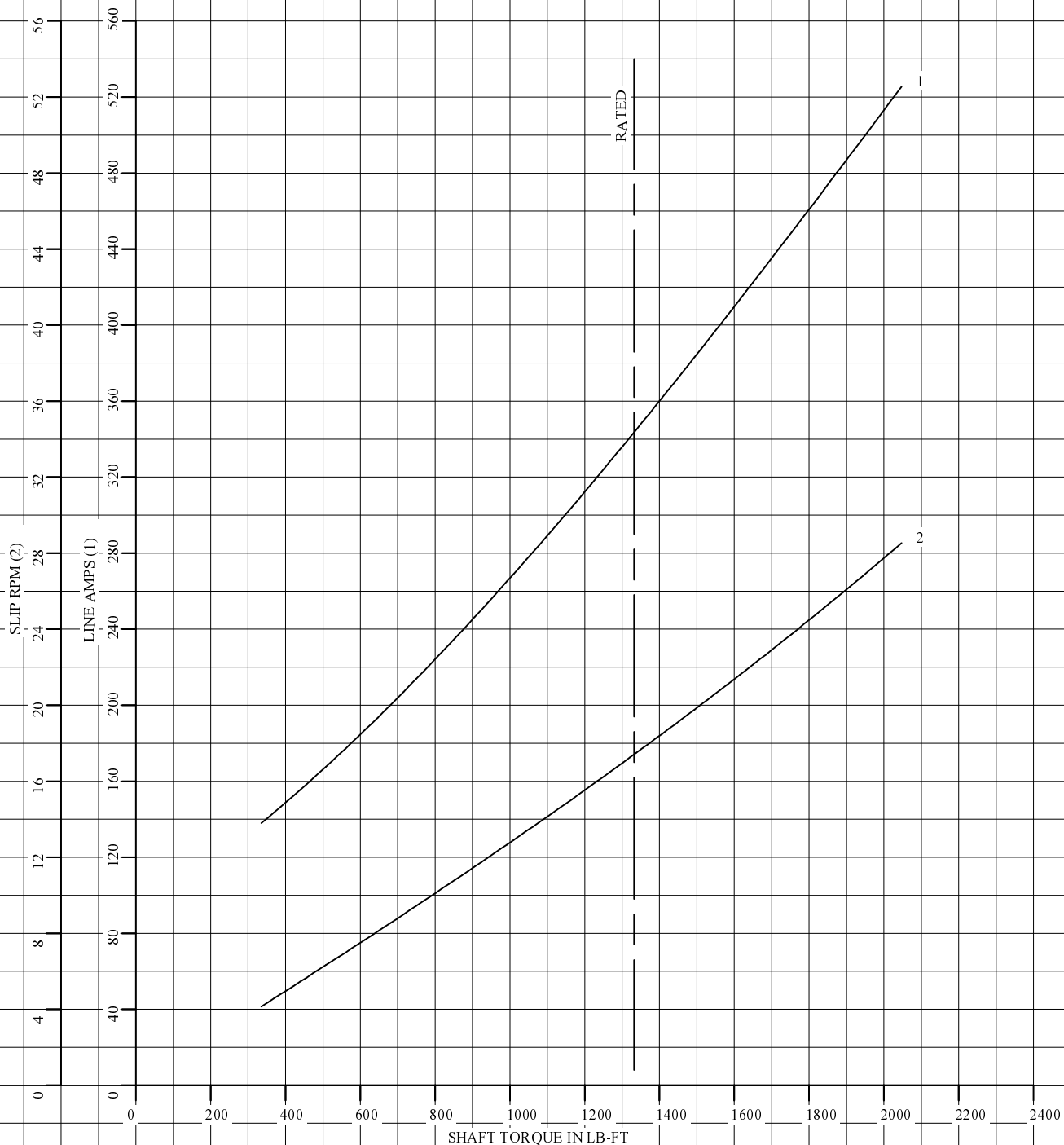
**A-C MOTOR
PERFORMANCE
CURVES**

L0211A
SH 1 OF 2
ISSUE DATE 02/22/99

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN	EQ	CKT OHMS PER PHASE	
FRAME	L4034	AMPS	344.76	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)			
HP	300	DUTY	CONT	IM (AMPS)	110.58	R1	.0117	X1	.0747
BASE SPEED	1180	S.F.	1.0	P.F. @NL/FL	.044/.886	R2	.00835	X2	.0802
PHASE/HERTZ	3/40	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	77	XM 2.44			

CORRELATED DATA

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



REMARKS:

DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



DR. BY	B. GRANT
CK. BY	B. GRANT
APP. BY	T. EVON
DATE	9-30-93

**A-C MOTOR
PERFORMANCE
CURVES**

L0211A

SH 2 OF 2

ISSUE DATE 02/22/99

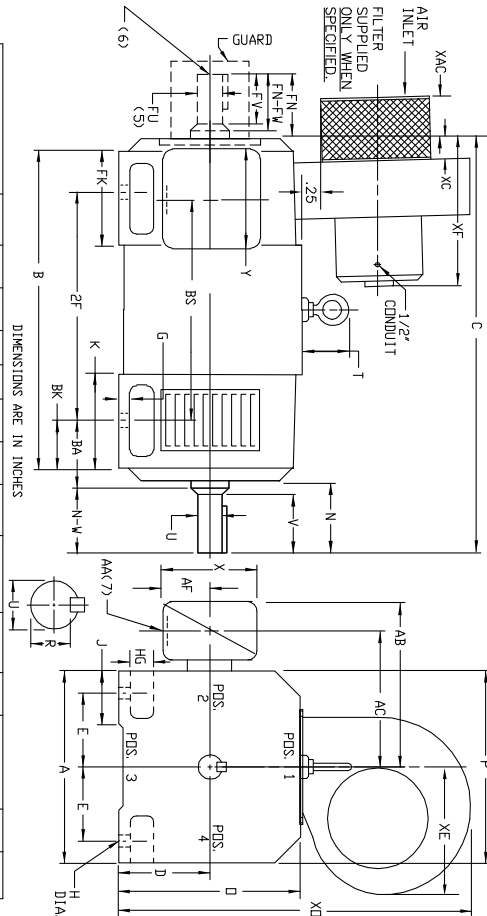
VARIABLE SPEED ALTERNATING CURRENT MOTORS
RPM AC

ENCLOSURE: DRIP-PROOF FULLY-GUARDED
MOUNTING:FOOT

COOLING: FORCE VENTILATED WITH INTEGRAL BLOWER AND MOTOR

FRAMES 13292Z THRU 14046Z

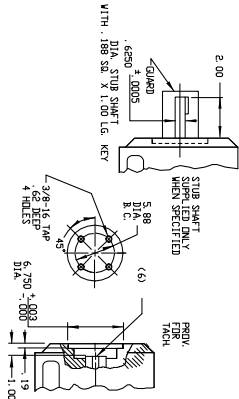
Accessories:	Provision for Tachometer Mounting Only When Specified
46Z	



FRAME	DIMENSIONS ARE IN INCHES													
	A	D(1)	G	H	TG	O	P	BA	K	FK	BK	T		
L2922Z - L2630Z	15.50	8.00	6.25	.75	.69	2.25	3.00	15.81	15.62	5.25	6.75	7.94	4.00	2.38
AL9892Z - UL3614Z	17.50	9.00	7.00	.89	.81	2.62	3.50	17.81	17.62	5.98	7.25	8.56	4.62	2.38
AL4022Z - UL4046Z	19.38	10.00	8.00	1.06	1.06	2.82	3.50	19.81	19.56	6.62	8.75	12.12	5.25	2.38

[illegible]

FRAME	XAC	XC	XE	XF	XO
L3292Z-L3203Z	6.75	3.25	8.50	19.25	28.00
AL3598Z-UJ.3614Z	6.50	3.75	11.00	20.38	32.00
AL4034Z-UJ.4046Z	4.88	6.88	10.50	23.50	34.00



- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "E" DIMENSION SHALL BE .005 TO .010.
- (3) "F" & "G" WAY SHALL BE .000 TO .005.
- (4) METHOD OF DRIVE COUPLED OR BELTED.
- (5) DEPOSITED DRIVE END SHIRT SUFFICIENTLY LONG WHEN SPECIFIED.
- (6) MOTOR SHAFT TAPPED FOR STUD SHAFT.
- (7) TERMINAL BOLT VARIES IN SIZE IN STUD SHAFT.
- (8) REFERENCE TO BOLD "S" (S1TD 663997-1, "AF" 663997-3, "MILL 663997-10).

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

FRAME_____	TYPE_____	TERMINAL_____	BLOWER MOTOR_____	CERTIFIED FOR_____
ORDER_____	ITEM_____	HP_____	TACH_____	BOX_____
SALES ORDER_____	APPROVED BY_____	RPM_____	PH_____	HZ_____
				VOLTS_____
				DATE_____

609998-001

609998-001

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

REV. DESC: ADD FRAMES AL4022Z, L4022Z & UL4022Z		
REV. LTR: A	VERSION: 01	TDR: 000000931162
FILE: \RGG\00003\663	REVISED: 11:41:50 06/22/2015	BY: RGGWT
MTL: -		

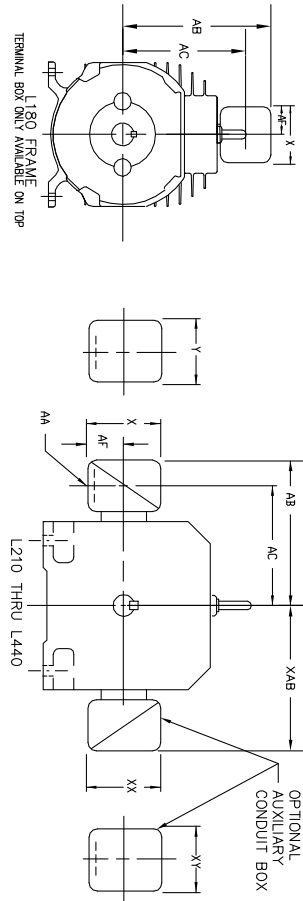
BALDOR

DIM SHT 132927 THRU 140467 RPM AC DPEV INT BLWR & MTR

SH 1 of 1

RPM AC INDUSTRIAL ALTERNATING CURRENT MOTORS
STEEL, CAST IRON, MILL AND TERMINAL BOARD CONDUIT BOX DIMENSIONS
NEMA FRAMES L180 thru L440 and IEC FRAMES DL112 thru DL280

616779-001

L180 FRAME
TERMINAL BOX ONLY AVAILABLE ON TOP

DIMENSIONS ARE IN INCHES (mm)

STEEL TERMINAL BOX DIMENSIONS (MAXIMUM)										CAST IRON TERMINAL BOX DIMENSIONS (MAXIMUM)									
FRAME MAX SIZE (AMPS (A)(1))					STANDARD SIZE					FRAME MAX SIZE (AMPS (A)(2))					STANDARD SIZE				
AB	AC	AF	X	Y	AB	AC	AF	X	Y	AB	AC	AF	X	Y	AB	AC	AF	X	Y
PART NUMBER										PART NUMBER									
L180	40	1.38	8.62	6.94	2.25	4.50	5.00	706320-3-A		L180	60	1	9.38	7.50	2.50	5.00	5.75	706320-4-C	
L180	75	2	9.38	7.50	2.81	5.62	6.12	706320-5-A		L210	140	3	14.25	10.50	3.62	8.00	9.25	706320-12-B	
L210	160	2	12.75	9.19	4.25	8.44	7.25	706320-9-A & D		L210	210	4	15.62	11.38	4.12	9.50	10.50	706320-13-A	
L210	305	4	14.62	10.50	5.38	10.56	9.00	706320-16-A & D		L210	510	5	18.50	13.25	7.00	12.75	15.00	706320-14-D	
L250	500	5	18.38	13.25	6.50	12.10	14.62	706320-16-A & D		L250	140	3	15.38	11.50	3.62	8.00	9.25	706320-12-B	
L250	160	2	13.75	10.25	4.25	8.44	7.25	706320-9-A & D		L250	210	4	16.62	12.44	4.12	9.50	10.50	706320-13-A	
L250	305	4	15.75	11.56	5.38	10.56	9.00	706320-16-A & D		L250	510	5	19.62	14.31	7.00	12.75	15.00	706320-14-D	
L280	500	5	19.50	14.31	6.50	12.10	14.62	706320-16-A & D		L280	210	4	16.88	12.62	4.12	9.50	10.50	706320-13-A	
L280	160	2	14.00	10.44	4.25	8.44	7.25	706320-9-A & D		L280	510	5	19.75	14.50	7.00	12.75	15.00	706320-14-D	
L280	305	4	15.88	11.75	5.38	10.56	9.00	706320-16-A & D		L320	210	4	17.12	12.88	4.12	9.50	10.50	706320-13-A	
L320	160	2	15.38	11.81	4.25	8.44	7.25	706320-9-A & D		L320	510	5	21.12	15.88	7.00	12.75	15.00	706320-14-D	
L320	305	4	17.25	13.12	5.38	10.56	9.00	706320-16-A & D		L360	140	3	16.75	13.00	3.62	8.00	9.25	706320-12-B	
L360	160	2	16.38	12.81	4.25	8.44	7.25	706320-9-A & D		L360	210	4	18.12	13.88	4.12	9.50	10.50	706320-13-A	
L360	305	4	18.25	14.12	5.38	10.56	9.00	706320-16-A & D		L440	510	5	22.12	16.88	7.00	12.75	15.00	706320-14-D	

MILL CONDUIT BOX DIMENSIONS (MAXIMUM)									
FRAME SIZE	AMPS	AA	AB	AC	AF	X	Y	PART NUMBER	
L210	160	(3)	10.78	8.41	3.50	8.00	8.00	706310-3-X or Y	
L250	160	(3)	11.84	9.47	3.50	8.00	8.00	706310-3-X or Y	
L280	590	(3)	12.75	10.75	4.50	16.00	16.00	706310-3-R	
L320	590	(3)	14.75	11.34	4.50	16.00	16.00	706310-3-R	
L360	590	(3)	15.47	12.06	4.50	16.00	16.00	706310-3-R	
L400	590	(3)	16.47	13.06	4.50	16.00	16.00	706310-3-R	
L440	1260	(3)	27.38	19.88	6.06	18.50	18.50	706310-63-E	

IEC CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (MAXIMUM)									
FRAME NEMA/IEC	AMPS (A)	AA (mm)	AB (mm)	AC (mm)	AF (mm)	X (mm)	Y (mm)	PART NUMBER	
L180/DL112	85	9.38 (239)	7.50 (191)	3.74 (95)	5.62 (143)	6.12 (156)	706320-5-A or 4-C	706320-5-A or 4-C	
L210/DL132	100	10.77 (274)	9.04 (230)	4.41 (112)	7.48 (190)	7.48 (190)	706310-5-A or 4-C	706310-5-A or 4-C	
L250/DL160	160	11.63 (296)	9.62 (245)	4.41 (112)	8.82 (224)	8.82 (224)	706310-5-B	706310-225-R	
L250/DL160	100	12.09 (307)	10.36 (264)	3.74 (95)	7.48 (190)	7.48 (190)	706310-5-B	706310-225-R	
L280/DL180	160	12.95 (329)	10.94 (278)	4.41 (112)	8.82 (224)	8.82 (224)	706310-5-B	706310-225-R	
L360/DL225	800	20.78 (528)	18.25 (464)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	706310-63-B	
L360/DL200	800	20.06 (510)	17.33 (446)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	706310-63-B	
L400/DL250	800	21.75 (553)	19.25 (489)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	706310-63-B	
L400/DL250	1260	25.94 (659)	18.44 (469)	6.06 (154)	18.50 (470)	18.50 (470)	706310-63-E	706310-63-E	
L440/DL280	1360	27.38 (696)	19.88 (505)	6.06 (154)	18.50 (470)	18.50 (470)	706310-63-E	706310-63-E	
L440/DL280	1300	30.38 (772)	21.38 (543)	12.44 (316)	24.00 (610)	24.00 (610)	706310-360-A	706310-360-A	

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)									
FRAME SIZE	XAB	XX	XY	PART NUMBER	FRAME SIZE	XAB	XX	XY	PART NUMBER
L210/DL132	7.38	4.25	4.25	602007-26-A	L210/DL132	10.88	8.00	8.00	706310-3-B
L250/DL160	8.44	4.25	4.25	602007-26-A	L250/DL160	11.88	8.00	8.00	706310-3-B
L280/DL180	9.12	4.25	4.25	602007-26-A	L280/DL180	12.62	8.00	8.00	706310-3-B
L320/DL200	10.00	4.25	4.25	602007-26-A	L320/DL200	13.50	8.00	8.00	706310-3-B
L360/DL225	11.00	4.25	4.25	602007-26-A	L360/DL225	14.50	8.00	8.00	706310-3-B
L400/DL250	12.00	4.25	4.25	602007-26-A	L400/DL250	15.50	8.00	8.00	706310-3-B
L440/DL280	13.12	4.25	4.25	602007-26-A	L440/DL280	16.62	8.00	8.00	706310-3-B

(1) ** CONDUIT
(2) ** PIPE 1/2"
(3) CUSTOMER TO PROVIDE
(4) 2" DN -5A or 1" IAW DN -4C

CONDUIT BOX CAN BE ROTATED
BOARDED CONDUIT BOX MAY BE
SPECIFIED

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

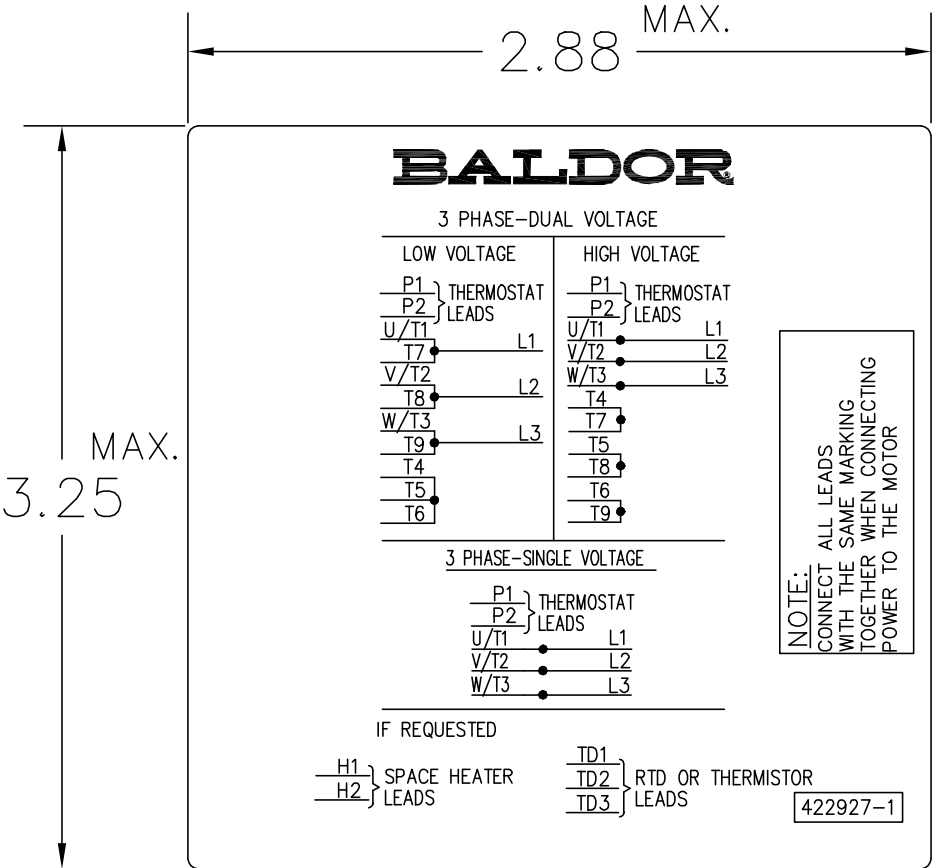
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REV. LTR: A	REVISED: 10:23:58 06/18/2013	BY: RCGWT
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MTL: -		

BALDOR

DIM SHT NEMA L180 THRU L440 & IEC DL112 THRU DL280

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
FILE: \RGG\00000\203		REVISED: 08:09:29 03/04/2013
MTL: -		BY: RGGWT

BALDOR
EXTERNAL CONNECTION LABEL
SH 1 of 1