

ABB BALDOR RELIANCE III

Customer information packet

IDBRPM403004

300HP, 1785RPM, 3PH, N/AHZ, L4046, TEBC, FOOT,

Specifications

Enclosure	TEBC
Frame	L4046
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	UR
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	346.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	346.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	60.12 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No 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.	L0091A
Layout	609994-001
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	1785		346	460		60	
	CONT	300	3570		347	460		120	
CAT.NO.				SPEC. NO.	P40L0203				
SER.NO			FR	L 4046	INSUL	H			
PH.	3	MAX SAFE SPEED			3750	AMB.	40	MIN. AMB.	-25
DESIGN NO.	L0091A	TYPE			ENCL.	TEAO-BC			
S.F.	1.0	D.E. BRG.			65BC03J30X				
ENCL MOD			O.D.E. BRG.		65BC03J30X				

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE		
FRAME	L4046	AMPS	336.4	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)		
HP	300	DUTY	CONT	IM (AMPS)	106.7	R1	.00574	X1 .0588
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.04/.89	R2	.00449	X2 .0834
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	90			XM 2.48

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1787	300	882	460	60	336
MAX SPEED	3570	300	441	460	120	340
MIN SPEED	0	0	882	5.71	.447	336

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	105
1/4	1797	75.0	219	460	60	134
1/2	1794	150	439	460	60	191
3/4	1790	225	661	460	60	262
FULL LOAD	1787	300	882	460	60	336
O/L	1779	448	1323	460	60	495

BLOWER DATA

VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM

REMARKS: TYPICAL DATA
CORRELATED DATA

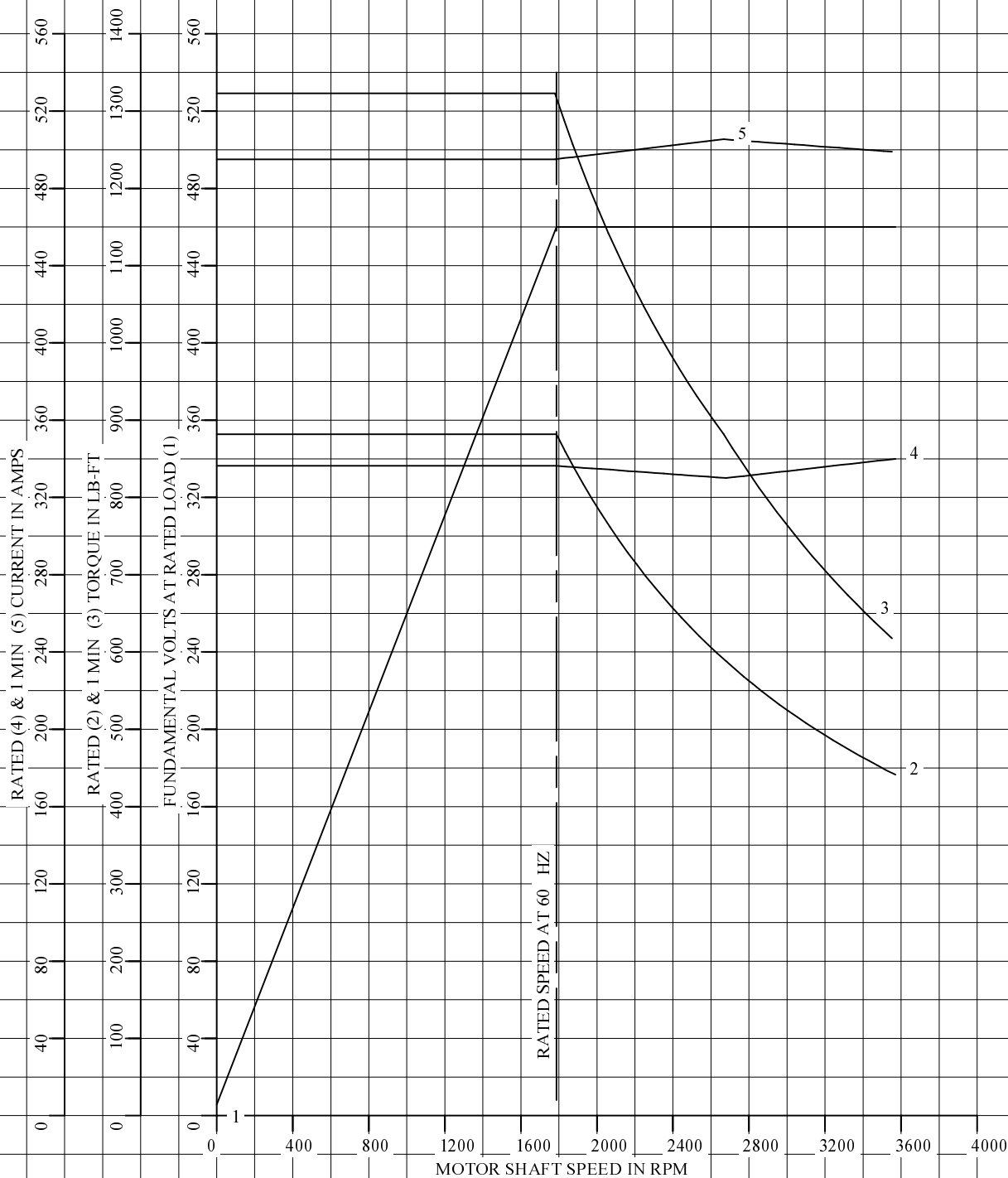


DR. BY	BDG
CK. BY	BDG
APP. BY	TSE
DATE	8-20-92

**A-C MOTOR
PERFORMANCE
DATA** L0091A
ISSUE DATE 7-16-08

REL S.O.		VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	L4046	AMPS	336.4	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)			
HP	300	DUTY	CONT	IM (AMPS)	106.7	R1	.00574	X1	.0588
BASE SPEED	1785	S.F.	1.0	P.F. @NL/FL	.04/.89	R2	.00449	X2	.0834
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	90	XM 2.48			

CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



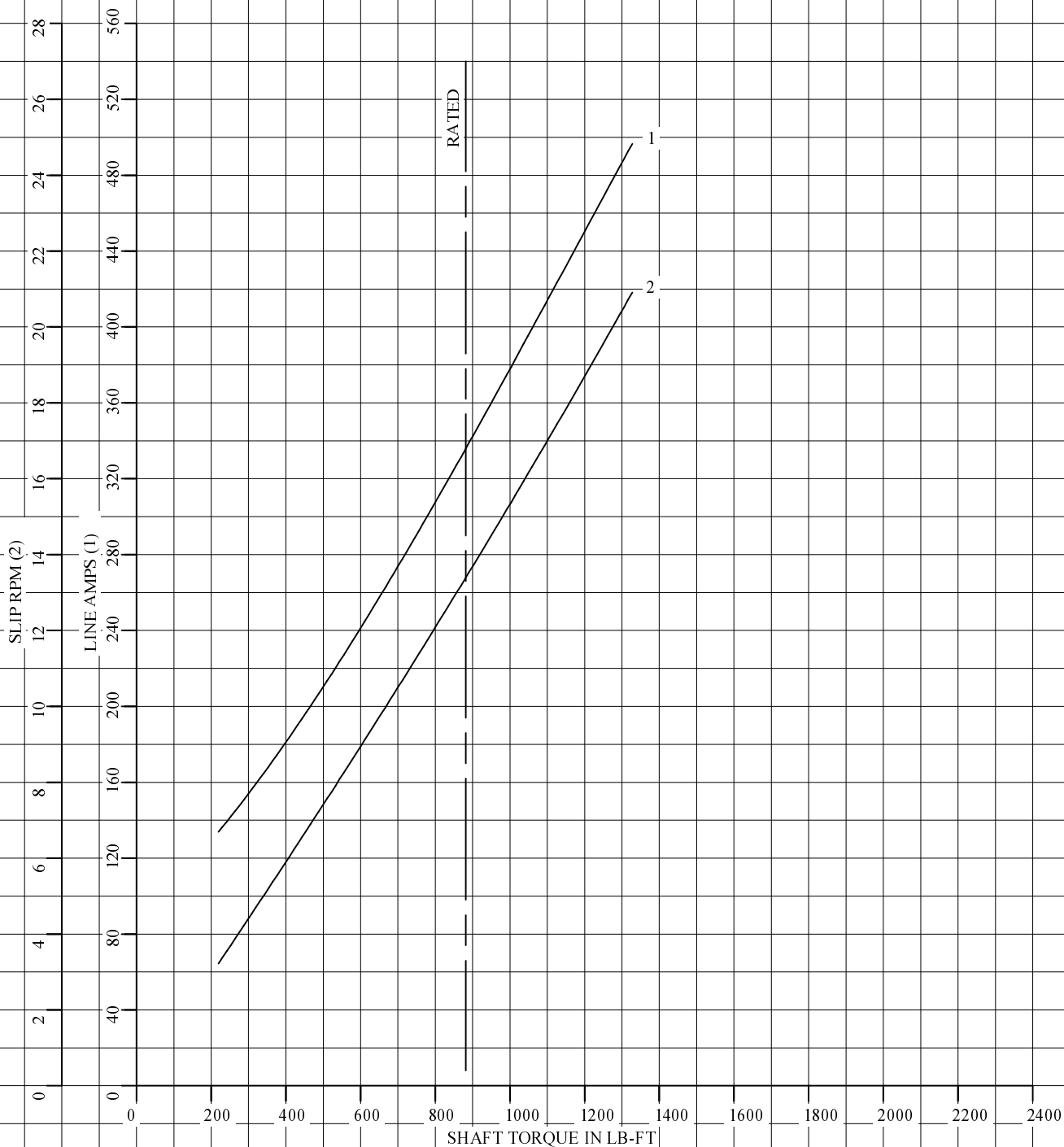
DR. BY BDG
CK. BY BDG
APP. BY TSE
DATE 8-20-92

**A-C MOTOR
PERFORMANCE
CURVES**

L0091A
SH 1 OF 2
ISSUE DATE 7-16-08

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	L4046	AMPS	336.4	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)	
HP	300	DUTY	CONT	IM (AMPS)	106.7	R1	.00574 X1 .0588
BASE SPEED	1785	S.F.	1.0	P.F. @NL/FL	.04/.89	R2	.00449 X2 .0834
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (Lb-Ft ²)	90		XM 2.48

CORRELATED DATA
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



DR. BY	BDG
CK. BY	BDG
APP. BY	TSE
DATE	8-20-92

**A-C MOTOR
PERFORMANCE
CURVES**

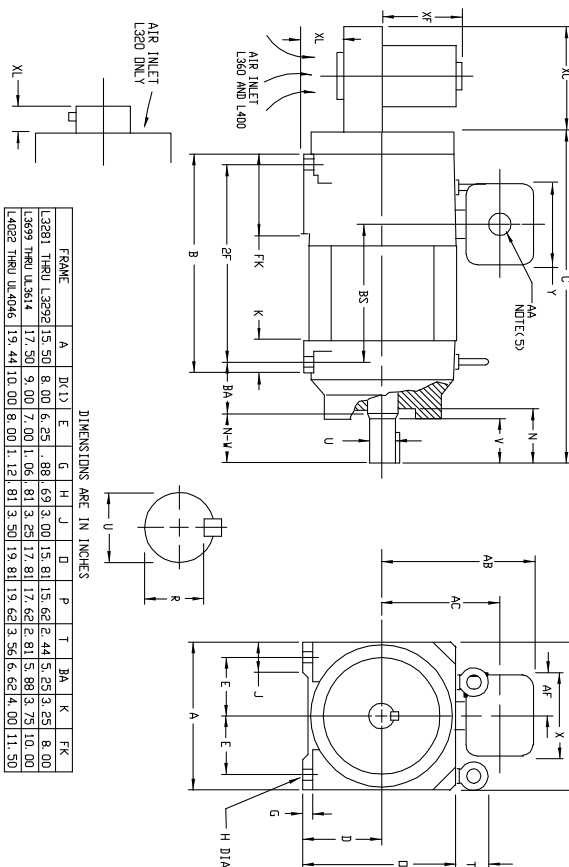
L0091A
SH 2 OF 2
ISSUE DATE 7-16-08

VARIABLE SPEED ALTERNATING CURRENT MOTORS
RPM AC
TOTALLY ENCLOSED
COOLING, FAN COOLING

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES L3281 THRU UL4046

COOLING: FAN COOLED
BLOWER COOLED
AIR-OVER INLINE

[illegible]

DIMENSIONS ARE IN INCHES

FRAME	MC-DRIVE	C	B	BS	BF	N	N-V	DRIVE END SHAFT AND KEY	RZ	LC	LGTH.	XC	XF	WT
L3811	(4)	38.25	25.00	12.18	23.5	5.50	5.25	6.65	5.00	2.275	6.63	4.00	1.69	940
L3892	(4)	41.00	25.00	15.88	23.0	5.50	5.25	6.65	5.00	2.275	6.63	4.00	1.69	990
L3699	CDLPEL	35.75	27.00	19.23	24.75	6.14	4.75	3.375	4.50	2.021	6.25	3.00	1.10	10.12
L3699	CDLPEL	37.50	27.00	19.23	24.75	6.14	4.75	3.375	4.50	2.021	6.25	3.00	1.10	7.00
L3607	CDLPEL	32.75	29.00	21.23	26.75	5.19	4.75	3.375	4.50	2.021	6.25	3.00	1.10	10.12
L3607	BLT-TEL	39.50	29.00	21.23	26.75	6.94	5.19	3.375	4.50	2.021	6.25	3.00	1.10	12.00
L3698	CDLPEL	38.75	30.00	22.23	27.75	5.19	4.75	3.375	4.50	2.021	6.25	3.00	1.10	7.00
L3698	BLT-TEL	42.50	30.00	22.23	27.75	6.94	5.19	3.375	4.50	2.021	6.25	3.00	1.10	12.00
L3614	CDLPEL	42.75	34.00	26.23	31.75	5.19	4.75	3.375	4.50	2.021	6.25	3.00	1.10	10.12
L3614	BLT-TEL	44.50	34.00	26.23	31.75	6.94	4.75	3.375	4.50	2.021	6.25	3.00	1.10	12.00
L4002	CDLPEL	42.50	33.00	24.23	30.50	4.56	4.75	3.375	4.50	2.021	6.25	3.00	1.10	10.12
L4002	BLT-TEL	45.88	33.00	24.23	30.50	6.31	8.50	3.875	8.25	3.309	1.10	6.88	5.69	12.00
L4034	CDLPEL	45.12	36.00	27.23	33.50	4.56	4.75	3.375	4.50	2.021	6.25	3.00	1.10	10.12
L4034	BLT-TEL	48.88	36.00	27.23	33.50	6.31	8.50	3.875	8.25	3.309	1.10	6.88	5.69	12.00
L4046	CDLPEL	48.12	39.00	30.23	36.50	4.56	4.75	3.375	4.50	2.021	6.25	3.00	1.10	10.12
L4046	BLT-TEL	51.88	39.00	30.23	36.50	6.31	8.50	3.875	8.25	3.309	1.10	6.88	5.69	12.00

- (1) "P" DIMENSION WILL NOT BE EXCEEDED, SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR BELTED.
 - (2) "P" WHEELS -- 4.00 - .015
 - (3) "P" WHEELS -- 4.00 - .015
 - (4) METHOD OF DRIVE COUPLED OR BELTED
 - (5) INTERNAL BOX DIMENSIONS AA, AB, AC, AF, X & Y REFER TO BOX I/D CSSTD. 609979-1, Y/P 609979-2, MILL 609979-1D.
 - (6) BLINDER ASSEMBLY FOR BLINDER COILING ONLY.
- WALLS OR RESTRICTIONS MUST NOT ENDOUGH ON AIR INLET SPACE. "X", "Y" FOR BLINDER OR FAN COILING.
- INTERNAL BOX MUST BE MOUNTED ON STANDARD INGREDIENTS. TERMINAL BOX CAN BE LOCATED ON SIDE IN F1 OR F2 POSITION WHEN SPECIFIED.
- WHEEL WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

FRAME _____ TYPE _____
 ORDER _____ ITEM _____ HP _____ RPM _____ PH _____ HZ _____ VOLTS _____
 SALES ORDER _____ APPROVED BY _____ DATE _____

MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.
 IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

609994-001

609994--001

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

REV. DESC: ASSIGNED TO BUSLOAD		
REV. LTR: -	VERSION: 00	TDR: 000000486619
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MTL: -		

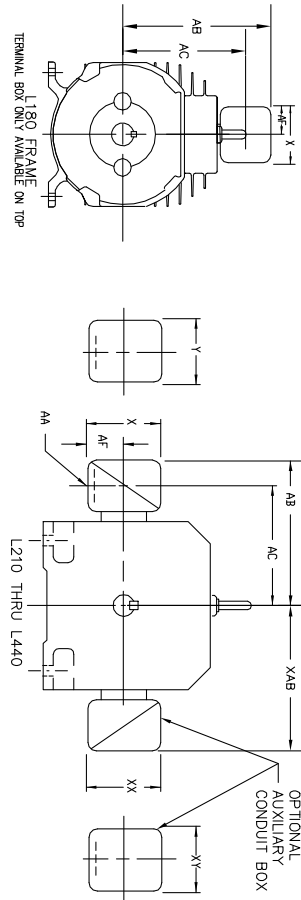
Baldor • Dodge • Reliance

DIM SHT L3281 THRU UL4046 RPM AC TEFC & BC AO INLINE FT MTG

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



DIMENSIONS ARE IN INCHES (mm)

STEEL TERMINAL BOX DIMENSIONS (MAXIMUM)										CAST IRON TERMINAL BOX DIMENSIONS (MAXIMUM)									
FRAME MAX SIZE (AMPS IAC(1))					STANDARD SIZE					FRAME MAX SIZE (AMPS IAC(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	706320-9-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	13.75	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	706320-9-A & D		L280	140	3	15.50	11.75	3.62	8.00	9.25	706320-12-B	
L280	160	2	14.00	10.44	4.25	8.44	7.25	706320-9-A & D		L280	210	4	16.88	12.62	4.12	9.50	10.50	706320-13-A	
L280	305	4	15.88	11.75	5.38	10.56	9.00	706320-16-A & D		L280	510	5	19.75	14.50	7.00	12.75	15.00	706320-14-D	
L320	160	2	15.38	11.81	4.25	8.44	7.25	706320-9-A & D		L320	140	3	15.75	12.00	3.62	8.00	9.25	706320-12-B	
L320	305	4	17.25	13.12	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	500	5	21.00	15.88	6.50	12.10	14.62	706320-9-A & D		L320	510	5	21.12	15.88	7.00	12.75	15.00	706320-14-D	
L360	160	2	16.38	12.81	4.25	8.44	7.25	706320-9-A & D		L360	140	3	16.75	13.00	3.62	8.00	9.25	706320-12-B	
L360	305	4	18.25	14.12	5.38	10.56	9.00	706320-16-A & D		L360	210	4	18.12	13.88	4.12	9.50	10.50	706320-13-A	
L360	500	5	22.00	16.88	6.50	12.10	14.62	706320-9-A & D		L360	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	AA	AB (mm)	AC (mm)	AF (mm)	X (mm)	Y (mm)	PART NUMBER	
L180/DL112	85	(4)	9.38 (239)	7.50 (191)	2.81 (72)	5.62 (143)	6.12 (156)	706320-5-A or 4-C	
L210/DL132	100	---	10.77 (274)	9.04 (230)	3.74 (95)	7.48 (190)	7.48 (190)	706310-56-A	
L250/DL160	160	---	11.63 (296)	9.62 (245)	4.41 (112)	8.82 (224)	8.82 (224)	706310-56-B	
L250/DL160	100	---	12.09 (307)	10.36 (264)	3.74 (95)	7.48 (190)	7.48 (190)	706310-56-A	
L280/DL180	160	---	12.95 (329)	10.94 (278)	4.41 (112)	8.82 (224)	8.82 (224)	706310-56-B	
L280/DL180	160	---	13.58 (345)	11.57 (294)	4.41 (112)	8.82 (224)	8.82 (224)	706310-56-B	
L360/DL225	800	---	20.78 (528)	18.25 (464)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	
L360/DL200	800	---	20.06 (510)	17.33 (446)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	
L400/DL250	800	---	21.75 (553)	19.25 (489)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	
L400/DL250	1260	---	25.94 (659)	18.44 (469)	6.06 (154)	18.50 (470)	18.50 (470)	706310-63-E	
L440/DL280	1360	---	27.38 (696)	19.88 (505)	6.06 (154)	18.50 (470)	18.50 (470)	706310-63-E	
L440/DL280	1300	---	30.38 (772)	21.38 (543)	12.44 (316)	24.00 (610)	24.00 (610)	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) *AA CONDUIT
(2) *AF PIPE 1/4"
(3) CUSTOMER TO PROVIDE
(4) 2" DN -5A or 1" IAW DN -4C
CONDUIT BOX CAN BE ROTATED
ROTAION CONDUIT BOX MAY BE
SPECIFIED

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

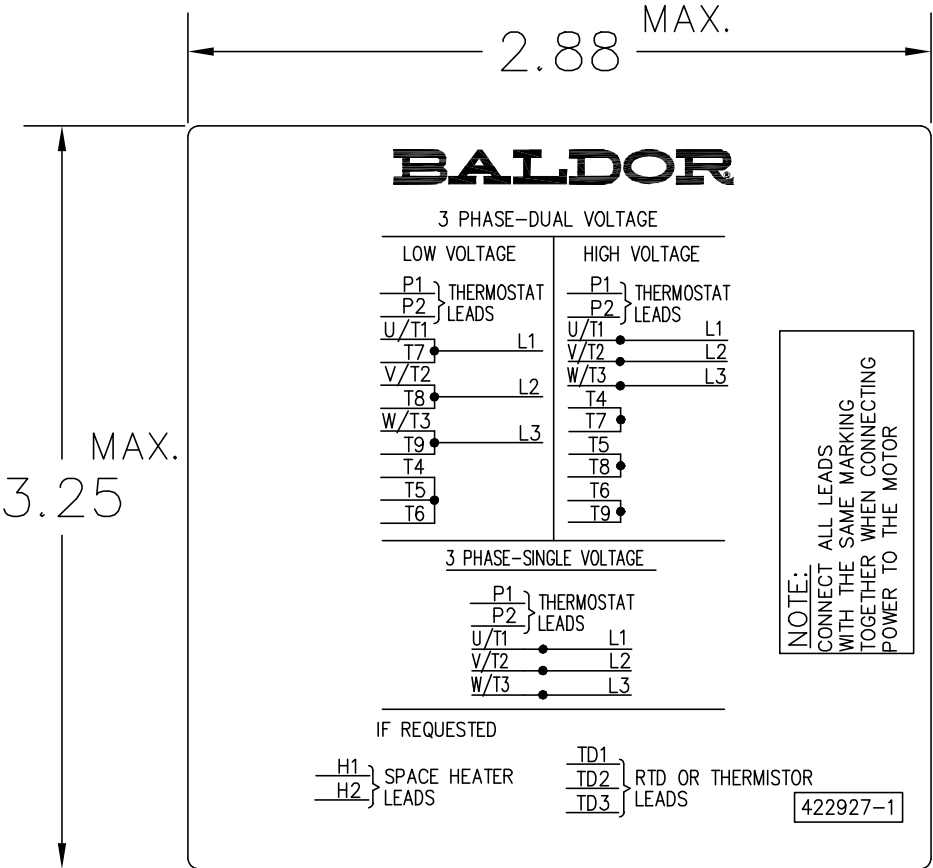
REV. DESC: ADD 1260 AMP L400, ADD 1300 AMP L440	VERSION: 01	TDR: 000000804459
REV. LTR: A	REVISED: 10:23:58 06/18/2013	BY: RCGWT
FILE: \RGG\00003\688		
MTL: -		

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