ABB BALDOR RELIANCE

Customer information packet

IDBRPM402504

250HP, 1785RPM, 3PH, N/AHZ, L4034, TEBC, FOOT,

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Specifications

Enclosure	TEBC
Frame	L4034
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	250.000 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	290.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	290.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	57.12 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.	L0163A
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	250	1785	290	460	60
CONT	250	3560	290	460	120

CAT.NO.		**SPEC. NO.**	P40L0202				
SER.NO		**FR**	L 4034	**INSUL**	H		
PH.	3	**MAX SAFE SPEED**	3750	**AMB.**	40	**MIN. AMB.**	-25
DESIGN NO.	L0163A	**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	L4034	AMPS	283.46	MAX SAFE RPM	3750	(AT BASE RATING, 25 °C)			
HP	250	DUTY	CONT	IM (AMPS)	96.03	R1	.00689	X1	.0702
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.044/.881	R2	.00523	X2	.0961
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK^2 ($Lb-Ft^2$)	77			XM	2.76

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1787	250	735	460	60	283
MAX SPEED	3571	250	368	460	120	281
MIN SPEED	89	0	0	23.0	3.41	283

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	94.4
1/4	1797	62.5	183	460	60	118
1/2	1794	125	366	460	60	164
3/4	1790	188	551	460	60	221
FULL LOAD	1787	250	735	460	60	283
O/L	1772	496	1470	460	60	556

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

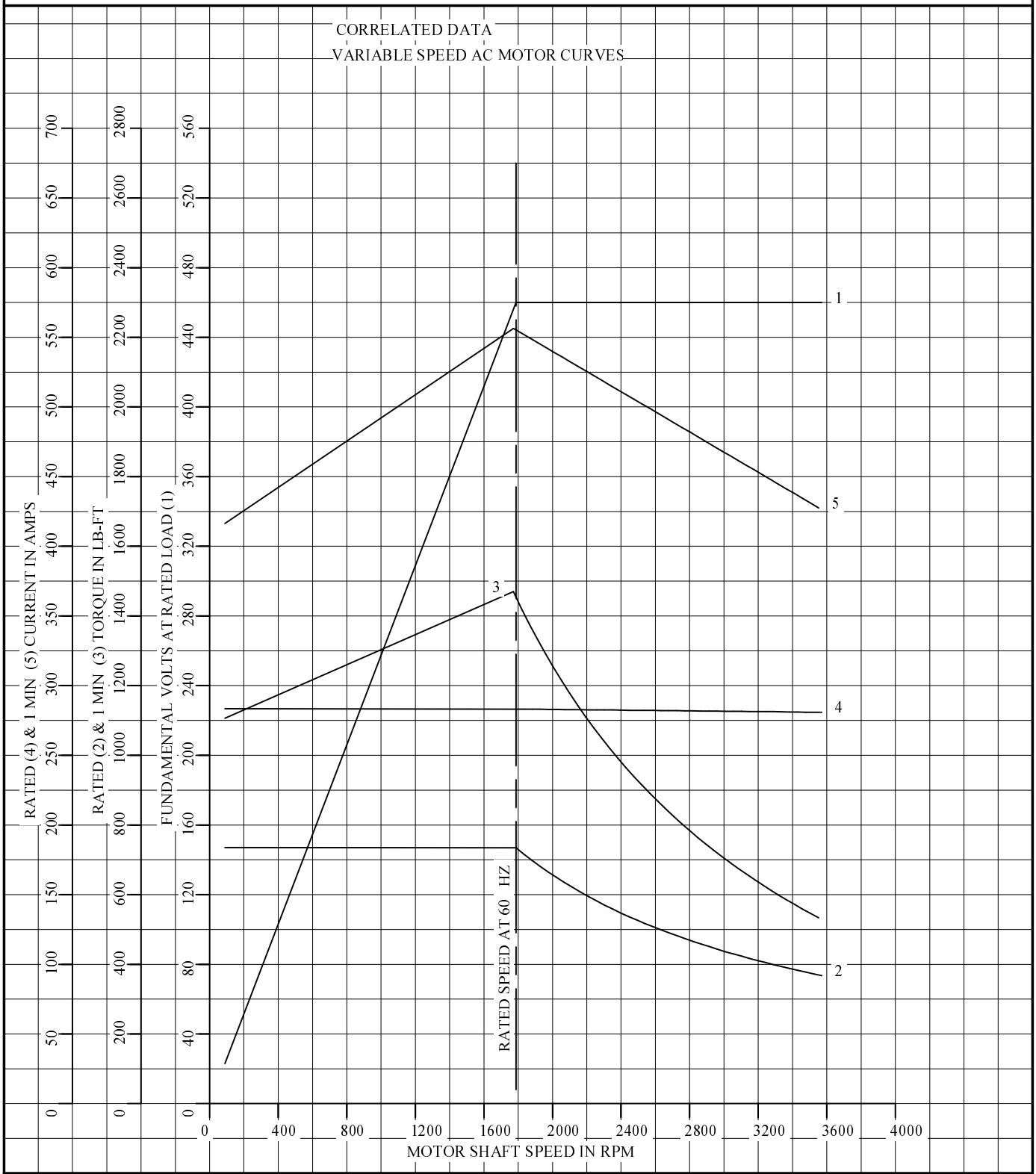
REMARKS: CORRELATED DATA

BALDOR

DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. EVON
DATE 11-3-93

A-C MOTOR PERFORMANCE DATA L0163A
ISSUE DATE 02/22/99

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	L4034	AMPS	283.46	MAX SAFE RPM	3750	(AT BASE RATING, 25 ℃)	
HP	250	DUTY	CONT	IM (AMPS)	96.03	R1 .00689	X1 .0702
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.044/.881	R2 .00523	X2 .0961
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/H	WK^2 (Lb-Ft^2)	77		XM 2.76



REMARKS:
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

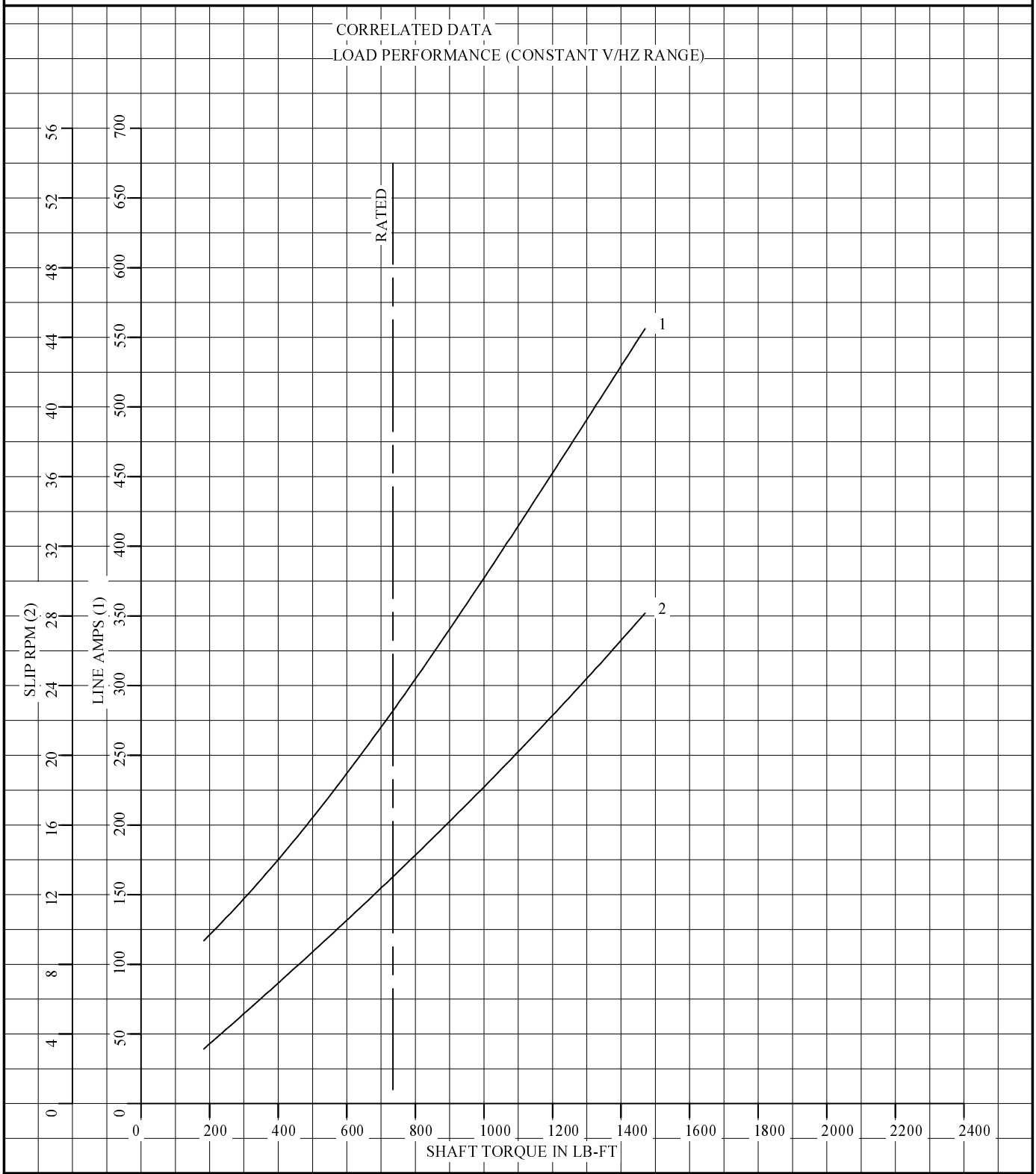
BALDOR

DR. BY	B. GRANT
CK. BY	B. GRANT
APP. BY	T. EVON
DATE	11-3-93

A-C MOTOR PERFORMANCE CURVES

L0163A
SH 1 OF 2
ISSUE DATE 02/22/99

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	L4034	AMPS	283.46	MAX SAFE RPM	3750	(AT BASE RATING, 25 ℃)	
HP	250	DUTY	CONT	IM (AMPS)	96.03	R1 .00689	X1 .0702
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.044/.881	R2 .00523	X2 .0961
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/H	WK^2 (Lb-Ft^2)	77		XM 2.76



REMARKS:
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR

DR. BY	B. GRANT
CK. BY	B. GRANT
APP. BY	T. EVON
DATE	11-3-93

A-C MOTOR PERFORMANCE CURVES

L0163A
SH 2 OF 2
ISSUE DATE 02/22/99

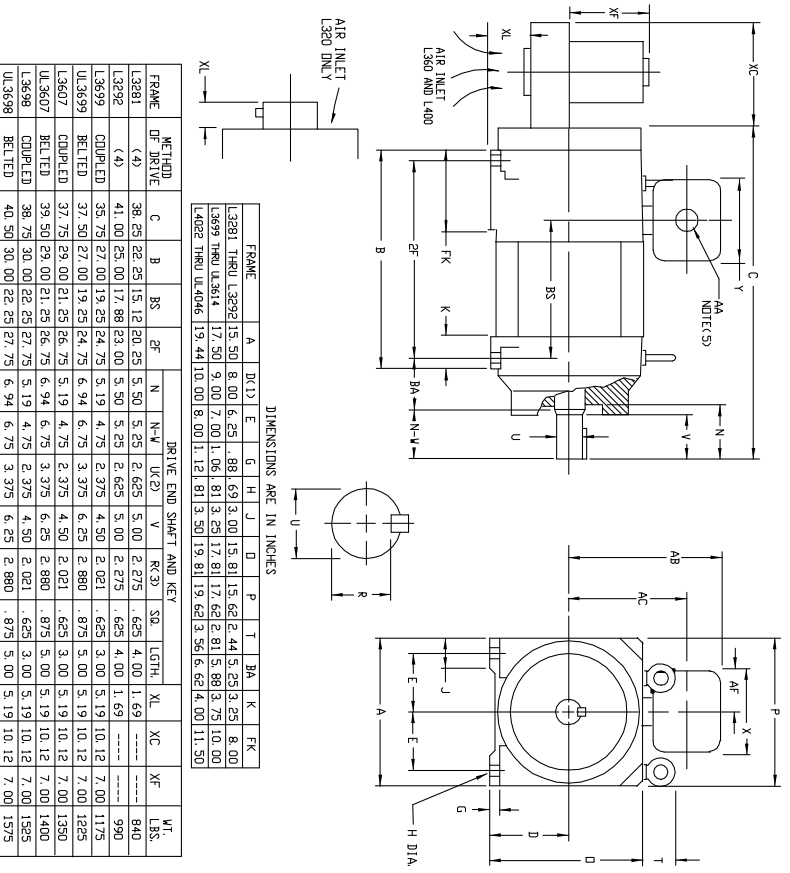
VARIABLE SPEED ALTERNATING CURRENT MOTORS
RPM AC

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING:FOOT

COOLING: FAN COOLED
BLOWER COOLED
AIR-OVER INLINE

FRAMES L3281 THRU UL4046

609994-001



DIMENSIONS ARE IN INCHES

FRAME	A	DX(1)	E	G	H	J	D	P	T	BA	K	FK
L3281 THRU L3292	15.50	8.00	6.25	.88	.69	3.00	15.81	15.62	2.44	5.25	3.25	8.00
L3699 THRU UL3614	17.50	9.00	7.00	1.06	.81	3.25	17.81	17.62	2.81	5.88	3.75	10.00
L4022 THRU UL4046	19.44	10.00	8.00	1.12	.81	3.50	19.81	19.62	3.56	6.62	4.00	11.50

FRAME	METHOD OF DRIVE	C	B	BS	2F	DRIVE END SHAFT AND KEY N	N-W	U(2)	V	R(3)	SQ.	LGTH.	XL	XC	XF	WT. LBS.
L3281		38.25	22.25	15.12	20.25	5.50	5.25	2.625	5.00	2.275	.625	4.00	1.69	----	----	840
L3292	(4)	41.00	25.00	17.88	23.00	5.50	5.25	2.625	5.00	2.275	.625	4.00	1.69	----	----	990
L3699	COUPLED	35.75	27.00	19.25	24.75	5.19	4.75	2.375	4.50	2.021	.625	3.00	5.19	10.12	7.00	1175
UL3699	BELTED	37.50	27.00	19.25	24.75	6.94	6.75	3.375	6.25	2.880	.875	5.00	5.19	10.12	7.00	1225
L3607	COUPLED	37.75	29.00	21.25	26.75	5.19	4.75	2.375	4.50	2.021	.625	3.00	5.19	10.12	7.00	1350
UL3607	BELTED	39.50	29.00	21.25	26.75	6.94	6.75	3.375	6.25	2.880	.875	5.00	5.19	10.12	7.00	1400
L3698	COUPLED	38.75	30.00	22.25	27.75	5.19	4.75	2.375	4.50	2.021	.625	3.00	5.19	10.12	7.00	1525
UL3698	BELTED	40.50	30.00	22.25	27.75	6.94	6.75	3.375	6.25	2.880	.875	5.00	5.19	10.12	7.00	1575
L3614	COUPLED	42.75	34.00	26.25	31.75	5.19	4.75	2.375	4.50	2.021	.625	3.00	5.19	10.12	7.00	1700
UL3614	BELTED	44.50	34.00	26.25	31.75	6.94	6.75	3.375	6.25	2.880	.875	5.00	5.19	10.12	7.00	1750
L4022	COUPLED	42.12	33.00	24.38	30.50	4.56	4.75	2.375	4.50	2.021	.625	3.00	5.69	12.00	10.31	1750
UL4022	BELTED	45.88	33.00	24.38	30.50	8.31	8.50	3.875	8.25	3.309	1.00	6.88	5.69	12.00	10.31	1800
L4034	COUPLED	45.12	36.00	27.38	33.50	4.56	4.75	2.375	4.50	2.021	.625	3.00	5.69	12.00	10.31	2150
UL4034	BELTED	48.88	36.00	27.38	33.50	8.31	8.50	3.875	8.25	3.309	1.00	6.88	5.69	12.00	10.31	2200
L4046	COUPLED	48.12	39.00	30.38	36.50	4.56	4.75	2.375	4.50	2.021	.625	3.00	5.69	12.00	10.31	2450
UL4046	BELTED	51.88	39.00	30.38	36.50	8.31	8.50	3.875	8.25	3.309	1.00	6.88	5.69	12.00	10.31	2500

(1) "DF" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
(2) "U" VARIES +.000 -.015
(3) "R" VARIES -.000 +.015
(4) METHOD OF DRIVE: COUPLED OR BELTED
(5) FOR TERMINAL BOX DIMENSIONS AA, AB, AC, AF, X & Y REFER TO BOX D/S (STD. 609979-1,X/P 609979-9,MILL 609979-10).
(6) BLOWER ASSEMBLY FOR BLOWER COOLING ONLY.

WALLS OR OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET SPACE "XL" FOR BLOWER OR FAN COOLING.
TERMINAL BOX CAN BE ROTATED IN 90 DEG. INCREMENTS.
TERMINAL BOX MOUNTED ON TOP AS STANDARD.
TERMINAL BOX CAN BE LOCATED ON SIDE IN F1 OR F2 POSITION WHEN SPECIFIED.
MOTOR WEIGHT MAY VARY FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

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

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
FILE: \RGG\00003\660	REVISED: 10:17:16 01/08/2009	BY: CONBAT
MTL: –		

Baldor • Dodge • Reliance

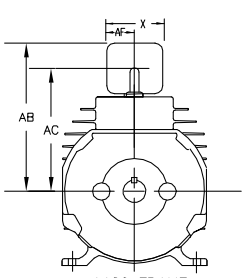
DIM SHT L3281 THRU UL4046 RPM AC TEFC & BC AO INLINE FT MTG
SH 1 of 1

616779-001

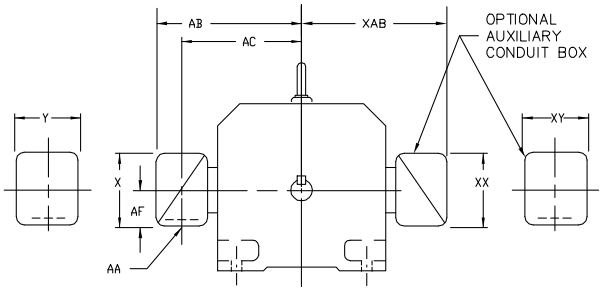
RPM AC INDUSTRIAL ALTERNATING CURRENT MOTORS

STEEL, CAST IRON, MILL AND TERMINAL BOARD CONDUIT BOX DIMENSIONS

NEMA FRAMES L180 thru L440 and IEC FRAMES DL112 thru DL280



L180 FRAME
TERMINAL BOX ONLY AVAILABLE ON TOP



L210 THRU L440

DIMENSIONS ARE IN INCHES (mm)

STEEL TERMINAL BOX DIMENSIONS (MAXIMUM)

FRAME SIZE	MAX. AMPS	STANDARD SIZE AA(1)	AB	AC	AF	X	Y	PART NUMBER
L180	40	1.38	8.62	6.94	2.25	4.50	5.00	706320-3-A
L180	75	2	9.38	7.50	2.81	5.62	6.12	706320-5-A
L210	160	2	12.75	9.19	4.25	8.44	7.25	706320-9-A & D
L210	305	4	14.62	10.50	5.38	10.56	9.00	706320-16-A & D
L210	500	5	18.38	13.25	6.50	12.10	14.62	702658-1-C
L250	160	2	13.75	10.25	4.25	8.44	7.25	706320-9-A & D
L250	305	4	15.75	11.56	5.38	10.56	9.00	706320-16-A & D
L250	500	5	19.50	14.31	6.50	12.10	14.62	702658-1-C
L280	160	2	14.00	10.44	4.25	8.44	7.25	706320-9-A & D
L280	305	4	15.88	11.75	5.38	10.56	9.00	706320-16-A & D
L280	500	5	19.62	14.50	6.50	12.10	14.62	702658-1-C
L320	160	2	15.38	11.81	4.25	8.44	7.25	706320-9-A & D
L320	305	4	17.25	13.12	5.38	10.56	9.00	706320-16-A & D
L320	500	5	21.00	15.88	6.50	12.10	14.62	702658-1-C
L360	160	2	16.38	12.81	4.25	8.44	7.25	706320-9-A & D
L360	305	4	18.25	14.12	5.38	10.56	9.00	706320-16-A & D
L360	500	5	22.00	16.88	6.50	12.10	14.62	702658-1-C

CAST IRON TERMINAL BOX DIMENSIONS (MAXIMUM)

FRAME SIZE	MAX. AMPS	STANDARD SIZE AA(2)	AB	AC	AF	X	Y	PART NUMBER
L180	60	1	9.38	7.50	2.50	5.00	5.75	706320-4-C
L210	140	3	14.25	10.50	3.62	8.00	9.25	706320-12-B
L210	210	4	15.62	11.38	4.12	9.50	10.50	706320-13-A
L210	510	5	18.50	13.25	7.00	12.75	15.00	706320-14-D
L250	140	3	15.38	11.50	3.62	8.00	9.25	706320-12-B
L250	210	4	16.62	12.44	4.12	9.50	10.50	706320-13-A
L250	510	5	19.62	14.31	7.00	12.75	15.00	706320-14-D
L280	140	3	15.50	11.75	3.62	8.00	9.25	706320-12-B
L280	210	4	16.88	12.62	4.12	9.50	10.50	706320-13-A
L280	510	5	19.75	14.50	7.00	12.75	15.00	706320-14-D
L320	140	3	15.75	12.00	3.62	8.00	9.25	706320-12-B
L320	210	4	17.12	12.88	4.12	9.50	10.50	706320-13-A
L320	510	5	21.12	15.88	7.00	12.75	15.00	706320-14-D
L360	140	3	16.75	13.00	3.62	8.00	9.25	706320-12-B
L360	210	4	18.12	13.88	4.12	9.50	10.50	706320-13-A
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	160	(3)	12.75	10.75	3.50	8.00	8.00	706310-3-X or Y
	590	(3)	14.75	11.34	4.50	16.00	16.00	706310-3-R
L320	590	(3)	15.47	12.06	4.50	16.00	16.00	706310-3-R
L360	590	(3)	16.47	13.06	4.50	16.00	16.00	706310-3-R
L400	590	(3)	18.00	15.00	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	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	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	706310-225-R
	160	--	11.63 (296)	9.62 (245)	4.41 (112)	8.82 (224)	8.82 (224)	706310-56-B	706310-226-R
L250/DL160	100	--	12.09 (307)	10.36 (264)	3.74 (95)	7.48 (190)	7.48 (190)	706310-56-A	706310-225-R
	160	--	12.95 (329)	10.94 (278)	4.41 (112)	8.82 (224)	8.82 (224)	706310-56-B	706310-226-R
L280/DL180	160	--	13.58 (345)	11.57 (294)	4.41(112)	8.82 (224)	8.82 (224)	706310-56-B	706310-226-R
	400	--	19.09 (485)	14.37 (365)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	706310-63-B
L320/DL200	800	--	20.06 (510)	17.53 (446)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	706310-63-B
L360/DL225	800	--	20.78 (528)	18.25 (464)	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 (468)	6.06 (154)	18.50 (470)	18.50 (470)	706310-63-E	706310-63-E
L440/DL280	1260	--	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) "AA" CONDUIT.
(2) "AA" PIPE TAP.
(3) CUSTOMER TO PROVIDE HOLE FOR CONDUIT.
(4) 2" DN -5A or 1" TAP DN -4C

CONDUIT BOX CAN BE ROTATED 360°. CONDUIT BOX MAY BE LOCATED F1,F2 OR F3 AS SPECIFIED

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

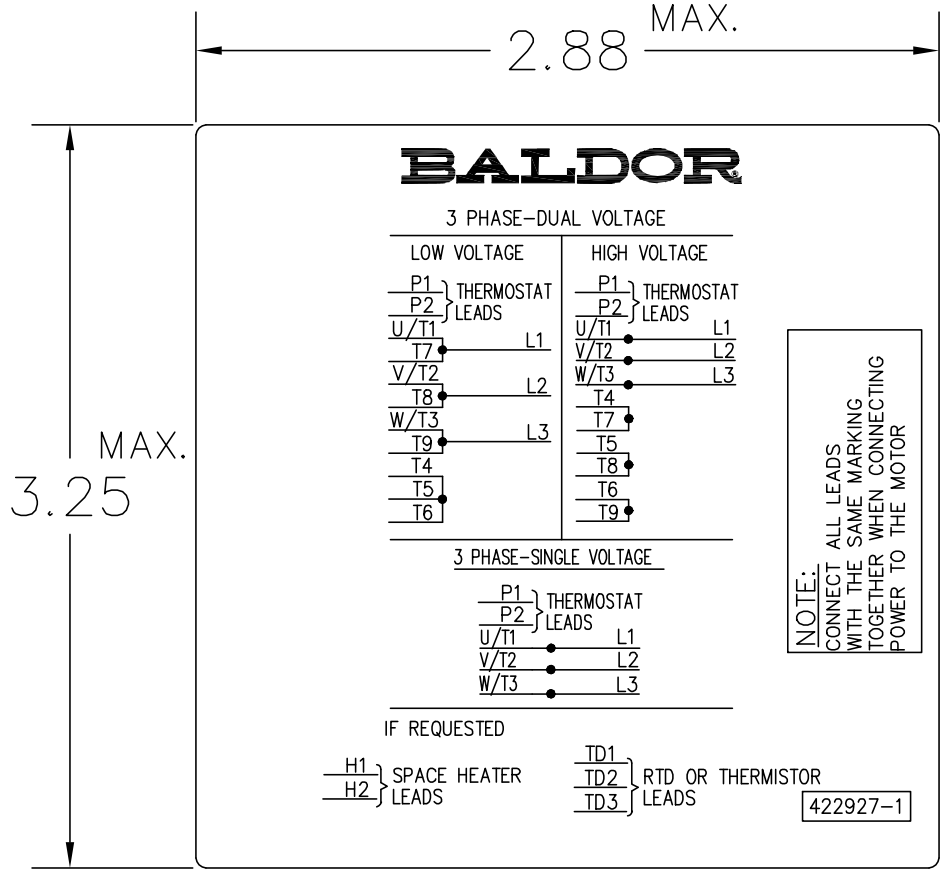
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MTL: -
VERSION: 01
REVISED: 10:23:58 06/18/2013
TDR: 000000804459
BY: RGGWT

BALDOR

DIM SHT NEMA L180 THRU L440 & IEC DL112 THRU DL280
SH 1 of 1

616779-001

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