ABB BALDOR RELIANCE

Customer information packet

ZDBRPM362004

200HP, 1750RPM, 3PH, 60HZ, L3614, TEBC, FOOT

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Specifications

Enclosure	TEAO
Frame	L3614
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	229.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	TACHOMETER
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	229.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	59.56 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
Thermal Device - Winding	Normally Closed Thermostat

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	L3375A
Layout	609994-002
Eff. date	10-04-2019
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	04-10-2015

Nameplate

000613006NS

DUTY	HP	RPM	AMPS	VOLTS	HZ
CONT	200	1785	229	460	60
CONT	200	3565	226	460	120

CAT.NO.	ZDBRPM362004	**SPEC. NO.**	P36L0239				
SER.NO		**FR**	L 3614	**INSUL**	H		
PH.	3	**MAX SAFE SPEED**	3750	**AMB.**	40	**MIN. AMB.**	-25
DESIGN NO.	L3375A	**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	L3614	AMPS	229	MAX SAFE RPM	3750	(AT BASE RATING, 25 ℃)			
HP	200	DUTY	CONT	IM (AMPS)	84	R1	.00939	X1	.0927
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.035/.866	R2	.00745	X2	.120
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/H	WK^2 ($Lb\text{-}Ft^2$)	45			XM	3.15

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1784	200	589	460	60	229
MAX SPEED	3565	200	295	460	120	226
MIN SPEED	0	0	589	6.32	.525	229

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	82.5
1/4	1796	50.0	146	460	60	100
1/2	1792	100	293	460	60	136
3/4	1788	150	440	460	60	180
FULL LOAD	1784	200	589	460	60	229
O/L	1766	396	1177	460	60	445

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

REMARKS: TYPICAL DATA
CORRELATED DATA

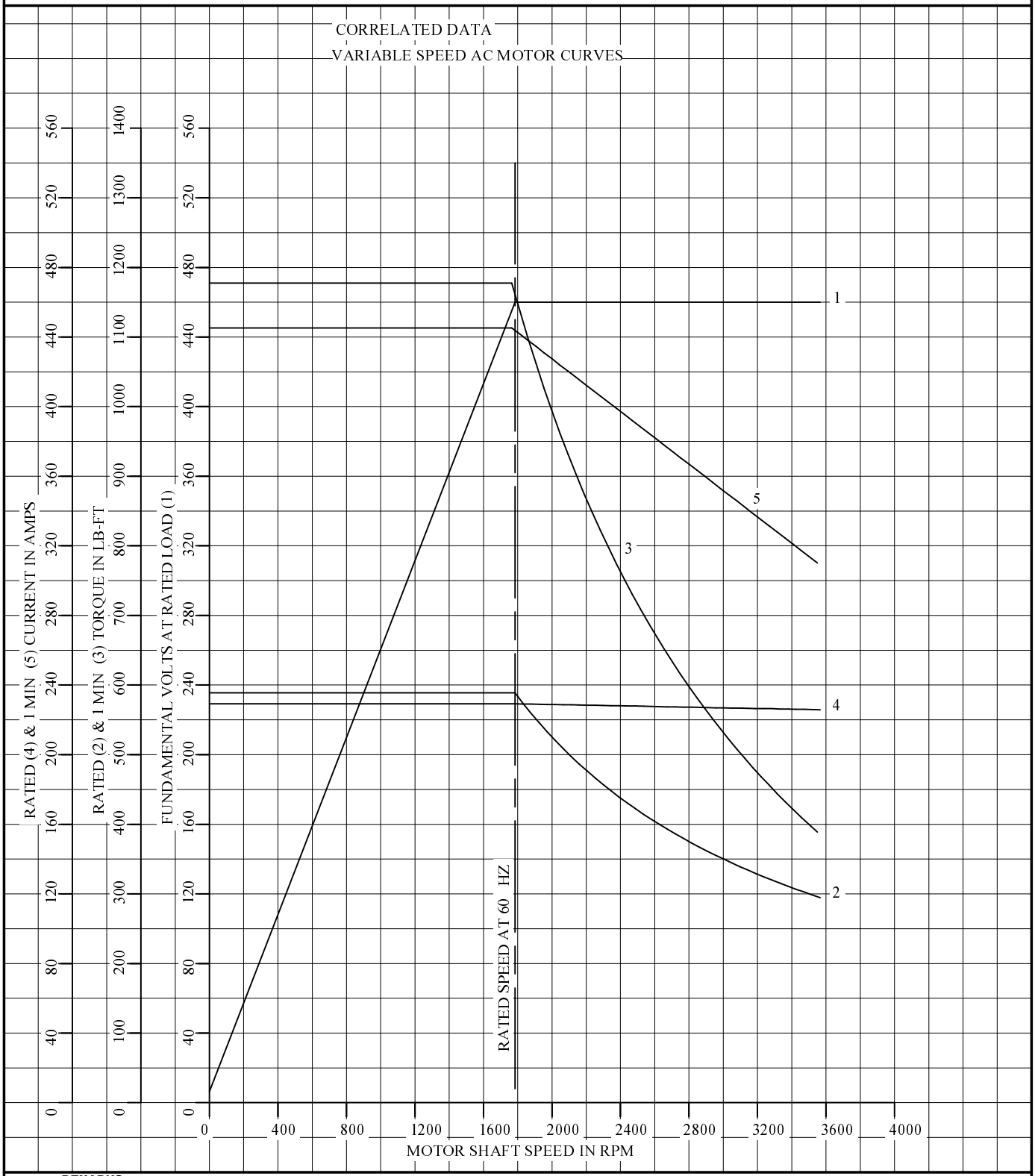
BALDOR • DODGE • RELIANCE

DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. CUFR
DATE 8-9-06

A-C MOTOR PERFORMANCE DATA L3375A
ISSUE DATE 10-11-07

Printed on 3/3/08 11:04 @ psecs-motoreng

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 ℃)	
FRAME	L3614	AMPS	229	MAX SAFE RPM	3750		
HP	200	DUTY	CONT	IM (AMPS)	84	R1 .00939	X1 .0927
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.035/.866	R2 .00745	X2 .120
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/H	WK^2 (Lb-Ft^2)	45		XM 3.15



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

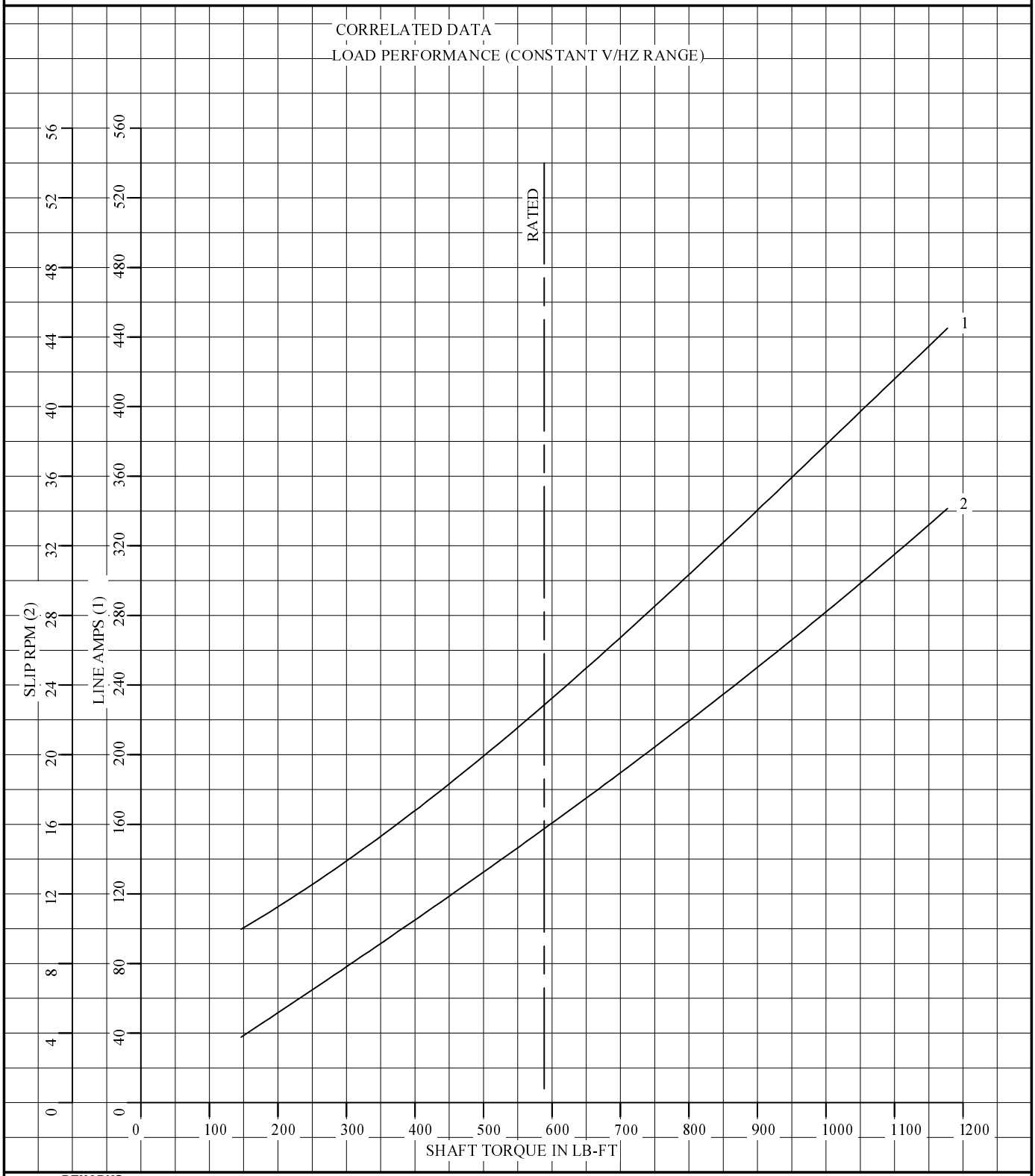
BALDOR · DODGE · RELIANCE

DR. BY	B. GRANT
CK. BY	B. GRANT
APP. BY	T. CUFR
DATE	8-9-06

A-C MOTOR PERFORMANCE CURVES

L3375A
SH 1 OF 2
ISSUE DATE 10-11-07

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 ℃)	
FRAME	L3614	AMPS	229	MAX SAFE RPM	3750		
HP	200	DUTY	CONT	IM (AMPS)	84	R1 .00939	X1 .0927
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.035/.866	R2 .00745	X2 .120
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/H	WK^2 (Lb-Ft^2)	45		XM 3.15



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR · DODGE · RELIANCE

DR. BY B. GRANT
CK. BY B. GRANT
APP. BY T. CUFR
DATE 8-9-06

A-C MOTOR PERFORMANCE CURVES

L3375A
SH 2 OF 2
ISSUE DATE 10-11-07

609994-002

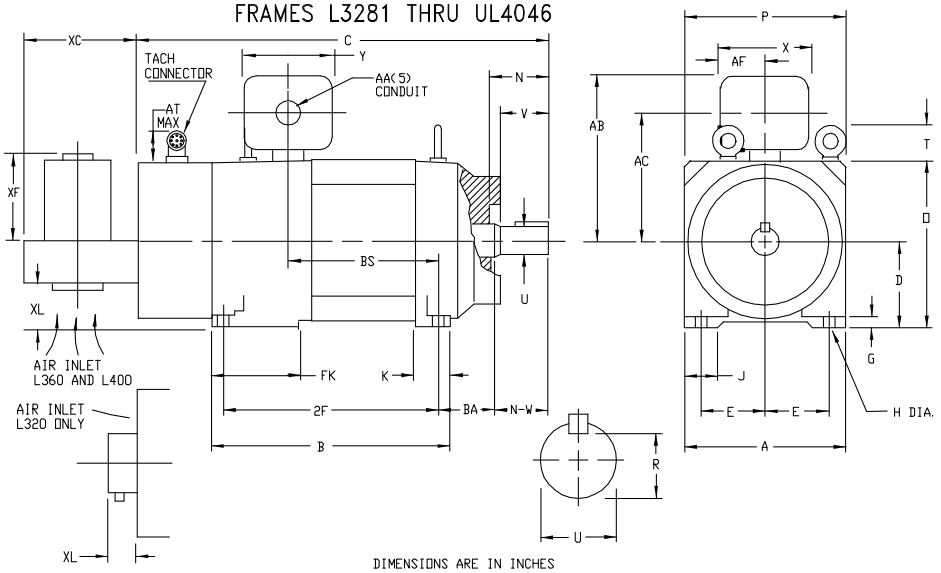
VARIABLE SPEED ALTERNATING CURRENT MOTORS
RPM AC

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING:FOOT

COOLING: BLOWER COOLED
AIR-OVER INLINE

ACCESSORIES: FLANGE MOUNTED
TACHOMETER

FRAMES L3281 THRU UL4046



DIMENSIONS ARE IN INCHES

FRAME	A	D(1)	E	G	H	J	O	P	T	BA	K	FK	AT
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	4.00
L3699S 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	4.00
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	4.00

FRAME	METHOD OF DRIVE	C	B	BS	2F	DRIVE END SHAFT AND KEY							XL	XC	XF	WT. LBS.
						N	N-W	U(2)	V	R(3)	SQ.	LGTH.				
L3281	(4)	38.25	22.25	15.12	20.25	5.50	5.25	2.625	5.00	2.275	.625	4.00	1.69	-----	----	850
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	-----	----	1000
L3699Z	COUPLED	42.44	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	1185
UL3699	BELTED	44.19	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	1235
L3607Z	COUPLED	44.44	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	1360
UL3607	BELTED	46.19	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	1410
L3698Z	COUPLED	45.44	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	47.19	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
L3614Z	COUPLED	49.44	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	51.19	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
L4022Z	COUPLED	49.12	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	1760
UL4022	BELTED	52.88	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	1810
L4034Z	COUPLED	52.12	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	2160
UL4034	BELTED	55.88	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	2210
L4046Z	COUPLED	55.12	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	2460
UL4046	BELTED	58.88	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	2510

(1) 'D' DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS
ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
(2) 'U' VARIES -- +.000 -.001
(3) 'R' VARIES -- +.000 -.015
(4) METHOD OF DRIVE: COUPLED OR BELTED
(5) TERMINAL BOX VARIES FOR DIMENSIONS 'AA','AB','AC','AF','X', AND 'Y',
REFER TO BOX D/S (STD 616779-1)
(6) CHANGE FRAME DESIGNATION FROM S TO Z.

WALLS OR OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET SPACE 'XL'.
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 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

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

Baldor • Dodge • Reliance

L3281 THRU UL4046 TEAO-BC DIM SHEET
SH 1 of 1

REV. DESC: REV'D "C" DIM ON L360 FRAME SIZES		TDR: 000000512920
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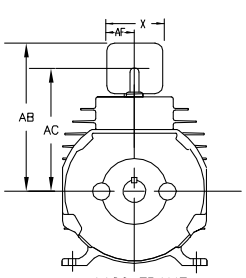
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616779-001

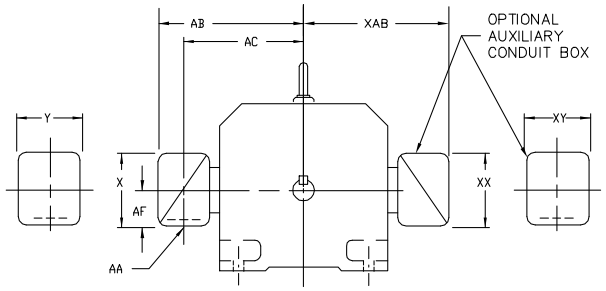
RPM AC INDUSTRIAL ALTERNATING CURRENT MOTORS

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.

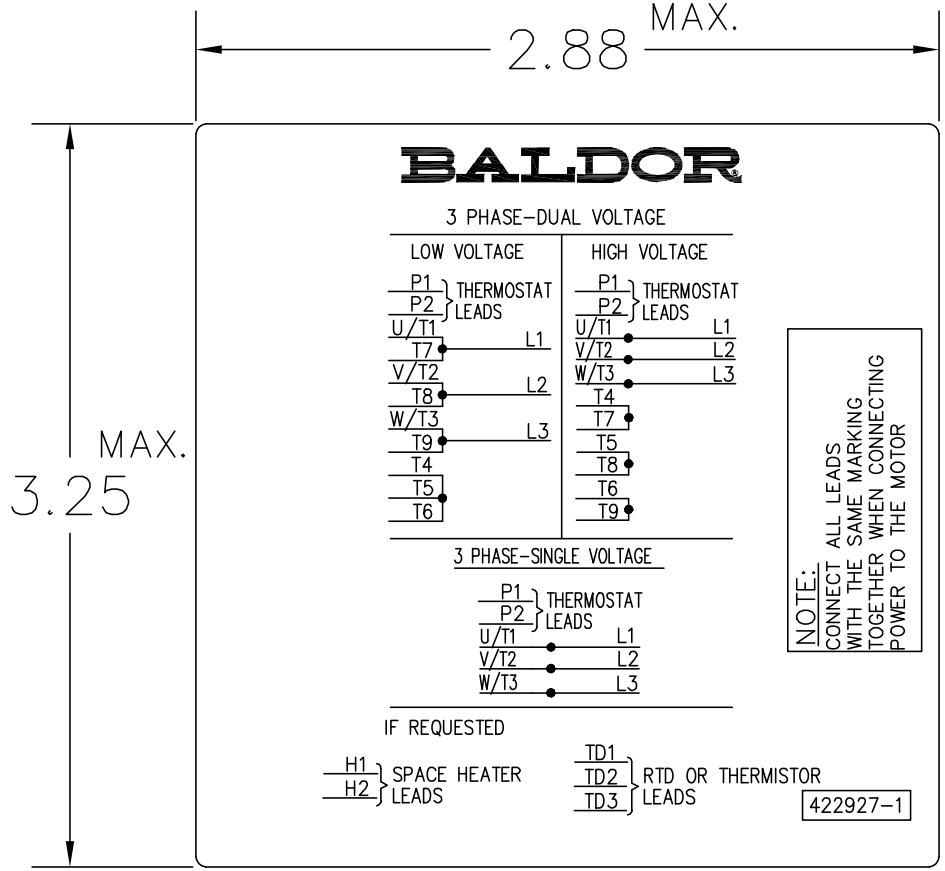
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MTL: -
VERSION: 01
REVISED: 10:23:58 06/18/2013
TDR: 000000804459
BY: RGGWT

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