

ABB BALDOR RELIANCE III

Customer information packet

IDBRPM402504

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

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

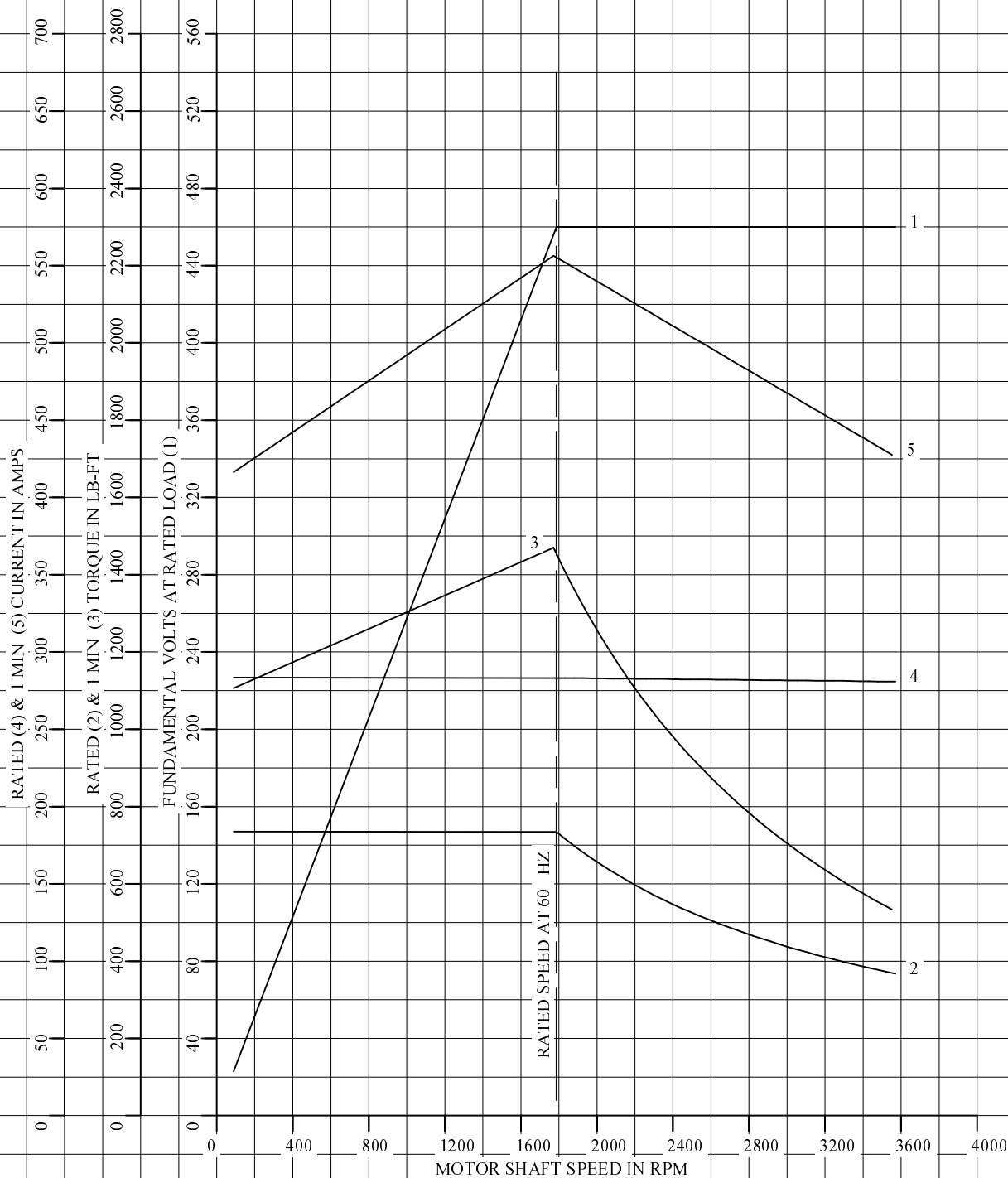
REMARKS: CORRELATED DATA



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 °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	

CORRELATED DATA
VARIABLE SPEED AC MOTOR CURVES



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**

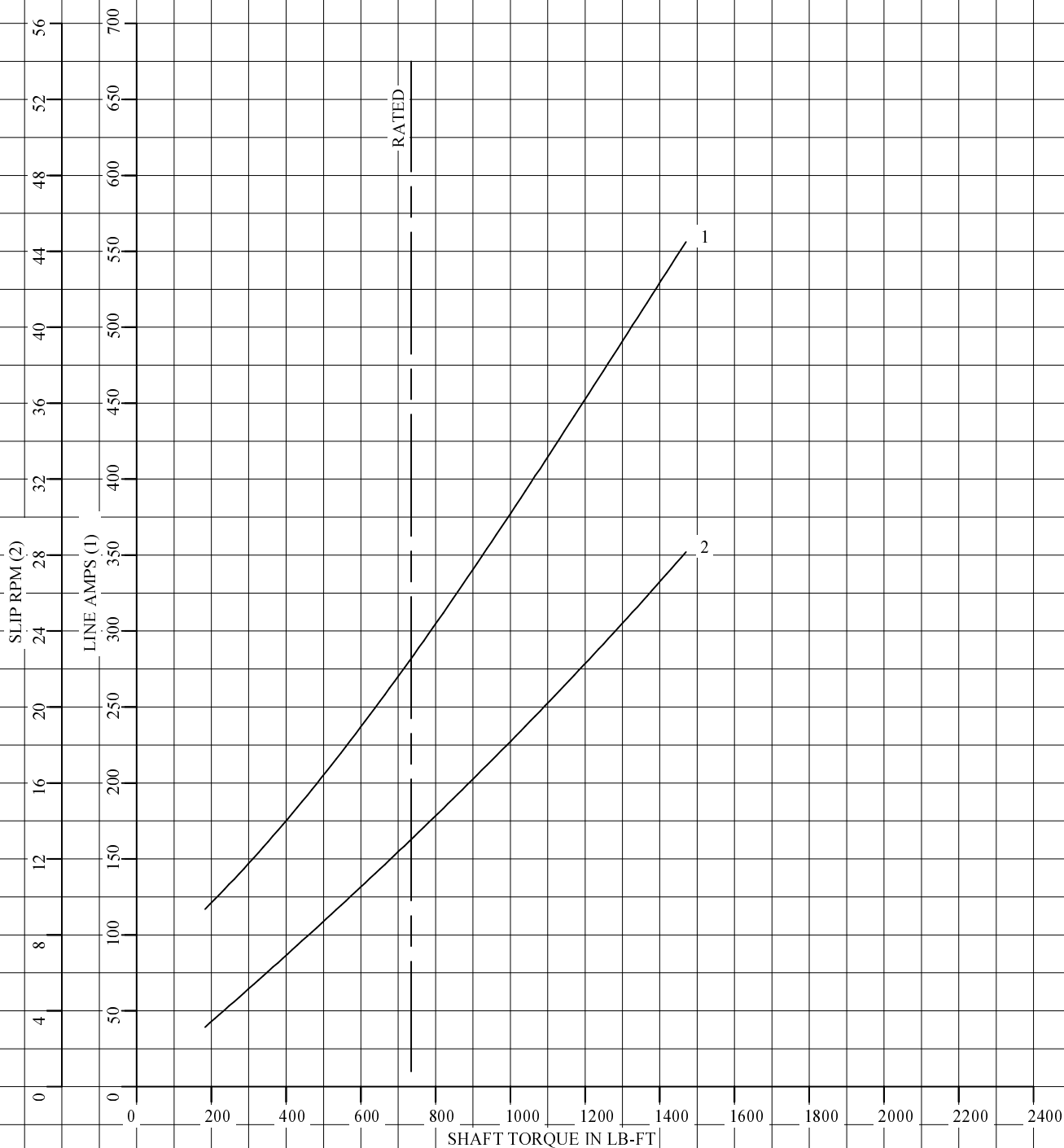
L0163A

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 °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	

CORRELATED DATA
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



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

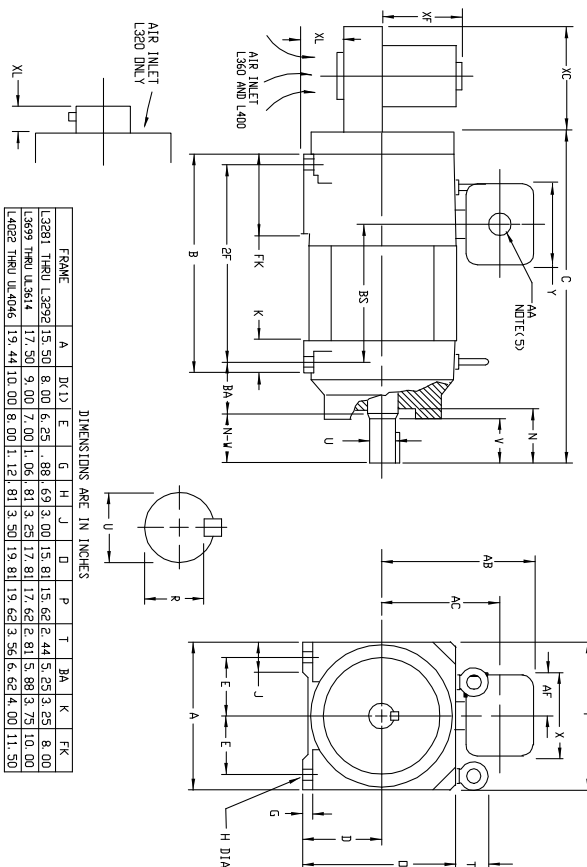
ISSUE DATE 02/22/99

VARIABLE	SPEED	ALTERNATING CURRENT	MOTORS
TOTALLY ENCLOSED			
RPM			
AC			
			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	METHOD	C	B	BS	FF	N	N-V	U-2	SH	KEY	R-3	LD	LGTH	XL	XC	XF	UTS
DRIVE																	LBS.
L381	(4)	38.25	22.25	1.0	20.25	5.50	5.25	6.65	5.00	2.275	.625	4.00	1.69	----	----	----	940
L382	(4)	41.00	25.00	17.88	23.00	5.50	5.25	6.65	5.00	2.275	.625	4.00	1.69	----	----	----	940
L389	BELTED	35.75	27.00	19.23	24.75	5.19	4.75	3.375	4.50	2.021	.625	3.00	5.19	10.12	7.00	1275	
U3639	BELTED	37.50	27.00	19.23	24.75	6.75	6.75	3.375	4.50	2.880	.875	5.00	5.19	10.12	7.00	1285	
L3607	DUOPLED	32.75	29.00	21.23	26.75	5.19	4.75	3.375	4.50	2.021	.625	3.00	5.19	10.12	7.00	1350	
U3607	BELTED	38.75	29.00	21.23	26.75	6.75	6.75	3.375	4.50	2.880	.875	5.00	5.19	10.12	7.00	1360	
L3698	DUOPLED	39.75	30.00	22.23	27.75	5.19	4.75	3.375	4.50	2.021	.625	3.00	5.19	10.12	7.00	1585	
U3698	BELTED	40.50	30.00	22.23	27.75	6.75	6.75	3.375	4.50	2.880	.875	5.00	5.19	10.12	7.00	1595	
L3614	DUOPLED	42.75	34.00	26.23	31.75	5.19	4.75	3.375	4.50	2.021	.625	3.00	5.19	10.12	7.00	1700	
U3614	BELTED	44.50	34.00	26.23	31.75	6.75	6.75	3.375	4.50	2.880	.875	5.00	5.19	10.12	7.00	1750	
L4022	DUOPLED	42.50	33.00	24.38	30.50	4.56	4.75	3.375	4.50	2.021	.625	3.00	5.69	12.00	10.31	1750	
U4022	BELTED	45.88	33.00	24.38	30.50	6.75	6.75	3.375	4.50	2.880	.875	5.00	5.69	12.00	10.31	1800	
L4034	DUOPLED	45.12	36.00	27.88	33.50	4.56	4.75	2.375	4.50	2.021	.625	3.00	5.69	12.00	10.31	2150	
U4034	BELTED	48.88	36.00	27.88	33.50	6.75	6.75	3.375	4.50	2.880	.875	5.00	5.69	12.00	10.31	2200	
L4046	DUOPLED	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	
U4046	BELTED	51.88	39.00	30.38	36.50	6.75	6.75	3.375	4.50	2.880	.875	5.00	5.69	12.00	10.31	2500	

- (1) "P" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR BELTED MACHINES.
 - (2) "P" WAREDS -- 4.00 - .015
 - (3) "P" WAREDS -- 4.00 - .015
 - (4) METHOD OF DRIVE COUPLED OR BELTED
 - (5) FIRM/STANDARD BOX DIMENSIONS AA, AB, AC, AF, X & Y REFER TO BOX D/S CSTD. DIMENSIONS 1X/P 605979-1 MILL 609979-10D.
 - (6) BLINDER ASSEMBLY FOR BLINDER COILING ONLY.
- WALLS OR OBSTRUCTIONS MUST NOT ENCOMPASS DR AIR INLET SPACE. "X" FOR BLINDER OR FAI COILING.
- TERMINAL BOX CAN BE MOUNTED IN 90 DEG. INCREMENTS.
- TERMINAL BOX CAN BE MOUNTED IN STANDARD POSITION.
- TERMINAL BOX CAN BE LOCATED ON SIDE IN F1 OR F2 POSITION WHEN SPECIFIED.
- MOTOR WEIGHT MAY VARY 5% FIR ND STANDARD RATINGS AND/OR ACCESSORIES.
- IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

FRAME _____ TYPE _____
 ORDER _____ ITEM _____ HP _____ CERTIFIED FOR _____
 SALES ORDER _____ APPROVED BY _____ PH _____ HZ _____ VOLTS _____
 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.

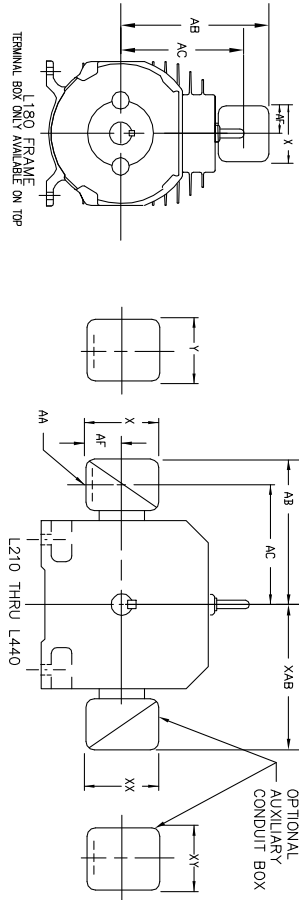
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REV. LTR: -	VERSION: 00	TDR: 000000486619
FILE: \RGG\00003\660	REVISED: 10:17:16 01/08/2009	BY: CONBAT
MTL: -		

Baldor • Dodge • Reliance

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

SH 1 of 1

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



STEEL TERMINAL BOX DIMENSIONS (MAXIMUM)									
FRAME SIZE	MAX AMP(S)	AB (A)(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	706320-16-A & D	
L250	160	2	13.75	10.25	4.25	8.44	7.25	706320-9-A & D	
L250	305	4	13.75	11.56	3.38	10.56	9.00	706320-16-A & D	
L250	500	5	19.50	14.31	6.50	12.10	14.62	706320-16-A & D	
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	706320-16-A & D	
L320	160	2	15.38	11.81	4.25	8.44	7.25	706320-9-A & D	
L320	305	4	17.25	13.12	3.38	10.56	9.00	706320-16-A & D	
L320	500	5	21.00	15.88	6.50	12.10	14.62	706320-16-A & D	
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	706320-16-A & D	

CAST IRON TERMINAL BOX DIMENSIONS (MAXIMUM)									
FRAME SIZE	MAX AMP(S)	AB (A)(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	AMP(S)	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)	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	AMP(S)	AA	AB (mm)	AC (mm)	AF (mm)	X (mm)	Y (mm)	PART NUMBER	
L180/DL112	85	(4)	9.38 (239)	7.50 (191)	2.74 (70)	5.62 (143)	6.12 (156)	706320-5-A or 4-C	
L210/DL132	100	---	10.77 (274)	9.04 (230)	3.81 (97)	7.48 (190)	7.48 (190)	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	
L250/DL160	100	---	12.09 (307)	10.36 (264)	3.74 (95)	7.48 (190)	7.48 (190)	706310-5-B	
L280/DL180	160	---	12.95 (329)	10.94 (278)	4.41 (112)	8.82 (224)	8.82 (224)	706310-5-B	
L280/DL180	160	---	13.58 (345)	11.57 (294)	4.41 (112)	8.82 (224)	8.82 (224)	706310-5-B	
L360/DL225	800	---	20.78 (528)	18.25 (464)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B	
L360/DL225	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	
L400/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)	706310-86-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

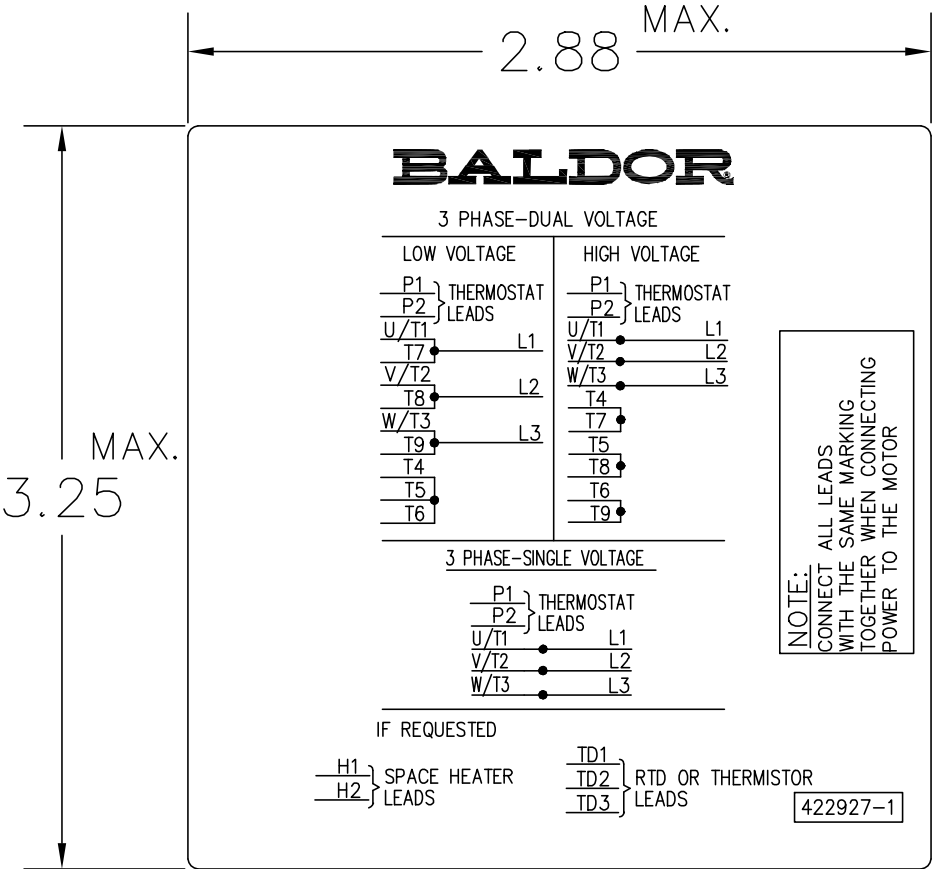
(1) *AF CONDUIT
(2) *AF PIPE 1/4"
(3) CUSTOMER TO PROVIDE
(4) 2" DN -5A or 1" IAW DN -4C
CONDUIT BOX CAN BE ROTATED
ROTAION OF BOX MAY BE
SPECIFIED

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