ABB BALDOR RELIANCE

Customer information packet

IDDRPM447004

700HP, 1785RPM, 3PH, NAHZ, L4429, DPG-FV, FOOT

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Specifications

Enclosure	DPFV
Frame	L4429
Frame Material	Exposed Laminations
Frequency	90.00 Hz
Output @ Frequency	700.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 90 HZ
Agency Approvals	CCSA US
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	No Grease
Current @ Voltage	870.000 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	870.0 a
Insulation Class	H
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	55.63 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	4.250 IN
Shaft Ground Indicator	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.	L1483A
Layout	615917-001
Eff. date	09-25-2018
CD Diagram	422927-001
Poles	06
Leads	
Proprietary	False
Created date	04-09-2015

Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613006MY

DUTY	HP	RPM	AMPS	VOLTS	HZ
CONT	700	1785	870	460	90
CONT	700	2700	833	460	136.1

CAT.NO.	IDDRPM447004		**SPEC. NO.**	P44L1320			
SER.NO		**FR**	L 4429	**INSUL**	H		
PH.	3	**MAX SAFE SPEED**	2850	**AMB.**	40	**MIN. AMB.**	-25
DESIGN NO.	L1483A	**TYPE**		**ENCL.**	DP		
S.F.	1.00	**D.E. BRG.**	110BC02J30X				
ENCL MOD	FORCE VENT	**O.D.E. BRG.**	6222MCVL0241				

REL S.O.	–	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	RL4429	AMPS	870	MAX SAFE RPM	2850	(AT BASE RATING, 25 °C)			
HP	700	DUTY	CONT	IM (AMPS)	371	R1	.00212	X1	.0357
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.029/.798	R2	.00174	X2	.0483
PHASE/HERTZ	3/90	AMB °C/INSUL	40/H	WK^2 ($Lb-Ft^2$)	150			XM	.711

RATED FULL LOAD DATA

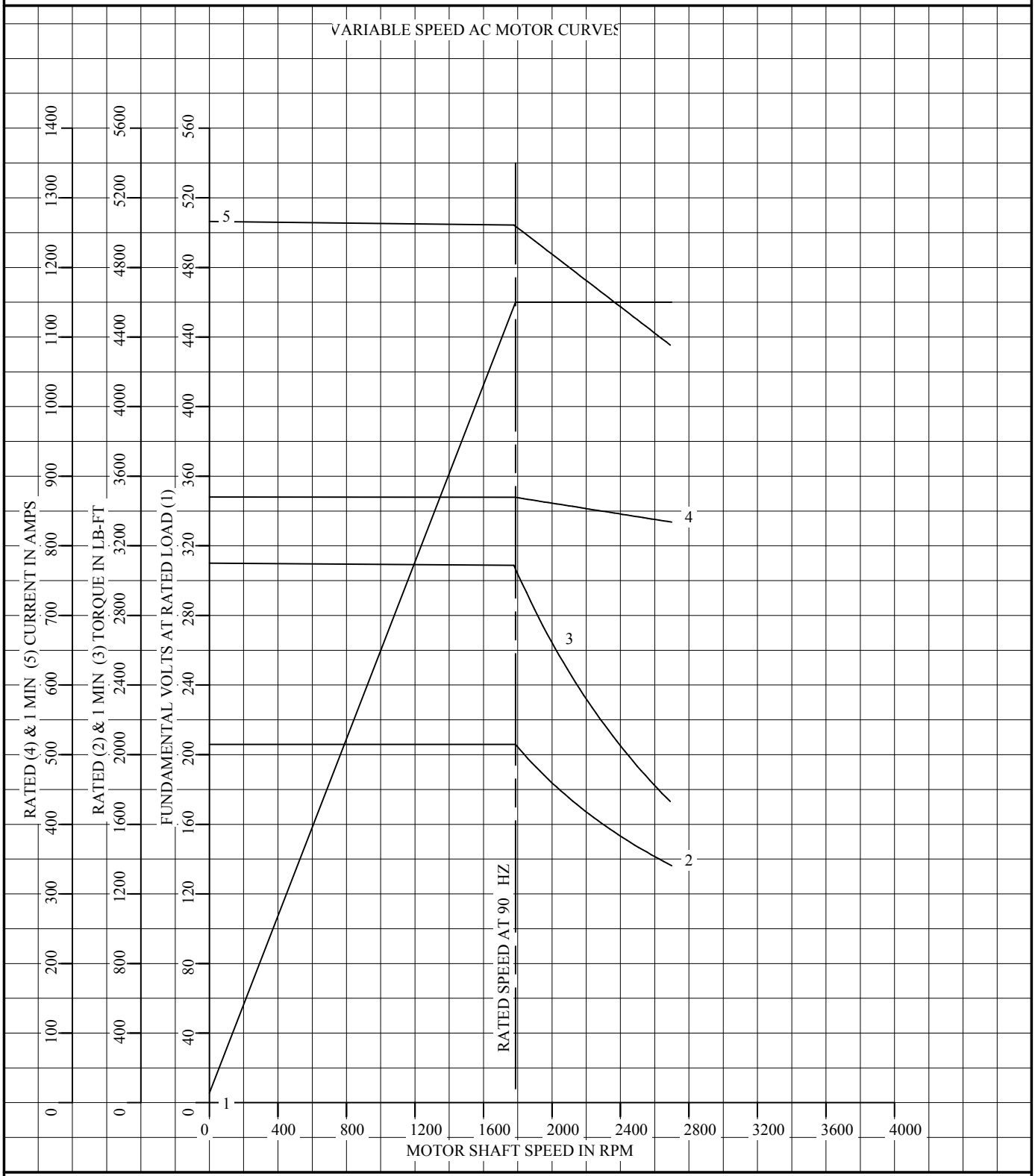
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1786	700	2058	460	90	870
MAX SPEED	2700	701	1362	460	136.1	834
MIN SPEED	0	0	0	5.60	.6888	870

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	90	364
1/4	1797	175	512	460	90	422
1/2	1793	351	1027	460	90	543
3/4	1790	525	1540	460	90	696
FULL LOAD	1786	700	2058	460	90	870
O/L	1778	1046	3088	460	90	1261

REMARKS:

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	RL4429	AMPS	870	MAX SAFE RPM	2850	(AT BASE RATING, 25 ℃)	
HP	700	DUTY	CONT	IM (AMPS)	371	R1 .00212	X1 .0357
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.029/.798	R2 .00174	X2 .0483
PHASE/HERTZ	3/90	AMB ℃/INSUL	40/H	WK^2 (Lb-Ft^2)	150		XM .711



REMARKS:

DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

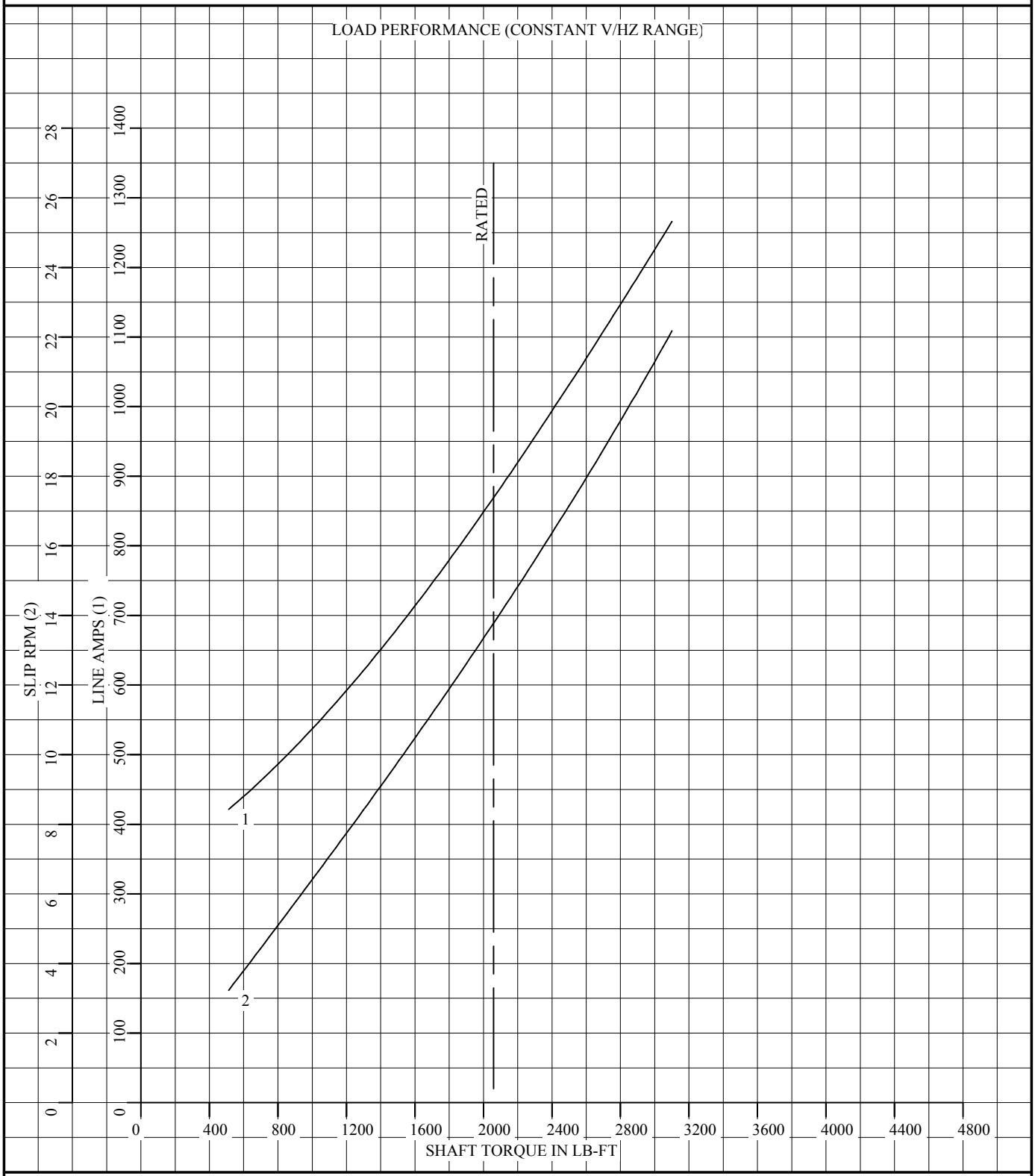
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	B. GRANT
CK. BY	B. GRANT
APP. BY	T. EVON
DATE	7-19-99

A-C MOTOR PERFORMANCE CURVES

L1483A
SH 1 OF 2
ISSUE DATE 3-17-15

REL S.O.	-	VOLTS	460	ENCLOSURE	DPFV	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 ℃)	
FRAME	RL4429	AMPS	870	MAX SAFE RPM	2850		
HP	700	DUTY	CONT	IM (AMPS)	371	R1 .00212	X1 .0357
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	.029/.798	R2 .00174	X2 .0483
PHASE/HERTZ	3/90	AMB ℃/INSUL	40/H	WK^2 ($Lb-Ft^2$)	150		XM .711



REMARKS:

DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

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DR. BY	B. GRANT
CK. BY	B. GRANT
APP. BY	T. EVON
DATE	7-19-99

A-C MOTOR PERFORMANCE CURVES

L1483A

SH 2 OF 2

ISSUE DATE 3-17-15

615917-001

VARIABLE SPEED ALTERNATING CURRENT MOTORS
RPM AC

ENCLOSURE: DRIP-PROOF FULLY-GUARDED

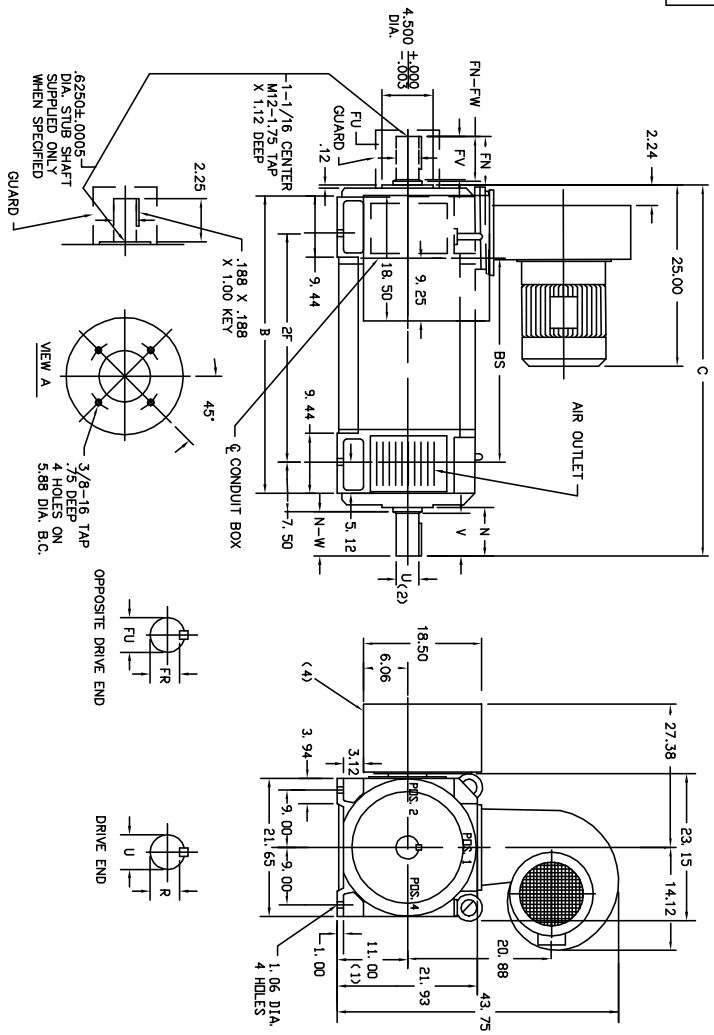
COOLING: FORCE VENTILATED WITH INTEGRAL BLOWER AND MOTOR

MOUNTING:FOOT

ACCESSORIES: TACHOMETER PROVISIONS

FRAMES L4429 THRU. L4473

615917-001



FRAME	DRIVE METHOD	C	B	BS	2F	DRIVE END SHAFT AND KEY						OPPOSITE DRIVE END SHAFT AND KEY						WT.
						N	N-W	U(2)	V	R(3)	SQ.	LGTH.	FN	FN-FW	FU(2)	FV	FR(3)	SQ.	LGTH.	LBS.
L4429	COUPLED	55.63	42.48	27.75	32.25	9.23	8.75	4.250	8.50	3.690	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	3004
UL4429	BELTED	55.63	42.48	27.75	32.25	9.23	8.75	4.500	8.50	3.944	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	3004
L4440	COUPLED	58.38	45.23	30.50	35.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	3307
UL4440	BELTED	58.38	45.23	30.50	35.00	9.23	8.75	4.500	8.50	3.944	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	3307
L4451	COUPLED	61.13	47.98	33.25	37.75	9.23	8.75	4.250	8.50	3.690	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	3612
UL4451	BELTED	61.13	47.98	33.25	37.75	9.23	8.75	4.500	8.50	3.944	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	3612
L4461	COUPLED	63.63	50.48	35.75	40.25	9.23	8.75	4.250	8.50	3.690	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	3889
UL4461	BELTED	63.63	50.48	35.75	40.25	9.23	8.75	4.500	8.50	3.944	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	3889
L4473	COUPLED	66.63	53.48	38.75	43.25	9.23	8.75	4.250	8.50	3.690	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	4220
UL4473	BELTED	66.63	53.48	38.75	43.25	9.23	8.75	4.500	8.50	3.944	1.00	7.00	9.23	8.75	4.250	8.50	3.690	1.00	7.00	4220

TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7,
OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT
BLOWER ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION.

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

(1) 'D' DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
(2) 'U' VARIES----+.000 -.001
(3) 'R' VARIES----+.000 -.015
(4) REMOVEABLE COVER PLATE FOR CUSTOMER DRILLING.

TERMINAL BOX CAN BE POSITIONED FOR EITHER TOP OR BOTTOM CONDUIT ENTRY.

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

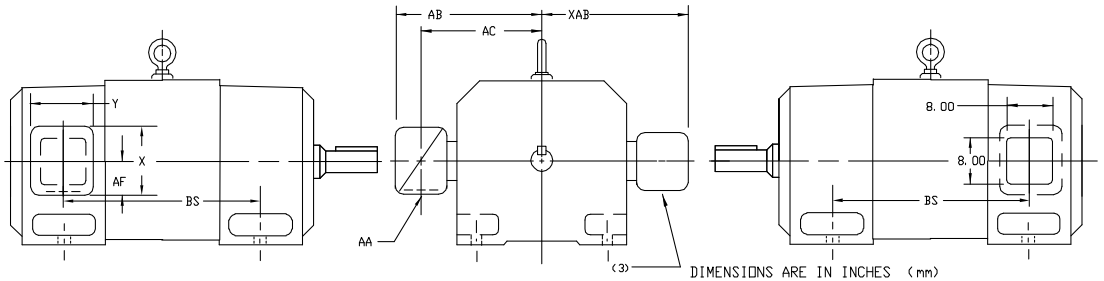
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MTL: –		BY: MGHBM10	SH 1 of 1

616779-022

VARIABLE SPEED ALTERNATING CURRENT MOTORS RPM AC

STEEL AND CAST IRON TERMINAL BOX DIMENSIONS
STANDARD SIZE AND ONE SIZE LARGER
AND AUXILIARY TERMINAL BOX DIMENSIONS FOR RTDS

FRAMES L320 THRU L440



DIMENSIONS ARE IN INCHES (mm)

STEEL TERMINAL BOX DIMENSIONS

FRAME SIZE	MAX. AMPS	STANDARD SIZE AA(1)	AB	AC	AF	X	Y	PART NUMBER
L320	160	2	15.38	11.81	4.25	8.44	7.25	706320-9-D
L320	305	4	17.25	13.12	5.38	10.56	9.00	706320-16-D
L320	500	5	21.00	15.88	6.50	12.10	14.62	702658-1-A
L360	160	2	16.38	12.81	4.25	8.44	7.25	706320-9-D
L360	305	4	18.25	14.12	5.38	10.56	9.00	706320-16-D
L360	500	5	22.00	15.88	6.50	12.10	14.62	702658-1-A

CAST IRON TERMINAL BOX DIMENSIONS

FRAME SIZE	MAX. AMPS	STANDARD SIZE AA(2)	AB	AC	AF	X	Y	PART NUMBER
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

AUXILIARY TERMINAL BOX DIMENSIONS

FRAME SIZE	XAB
L320	13.50
L360	14.50
L400	15.50
L440	21.00

MILL CONDUIT BOX DIMENSIONS

FRAME SIZE	AMPS	AA	AB	AC	AF	X	Y	PART NUMBER
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)	22.50	18.00	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

FRAME NEMA/IEC	AMPS	AA	AB (mm)	AC (mm)	AF (mm)	X (mm)	Y (mm)	PART NUMBER
L320/DL200	800	--	20.06 (510)	17.53 (446)	6.20 (158)	14.39 (366)	14.39 (366)	706310-63-B
L360/DL225	800	--	20.78 (528)	18.25 (464)	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
L440/DL280	1260	--	27.38 (696)	19.88 (505)	6.06 (154)	18.50 (470)	18.50 (470)	706310-63-E

(1) "AA" CONDUIT.
(2) "AA" PIPE TAP.
(3) NO LEAD OUTLET HOLE. CUSTOMER MUST MACHINE HOLE IN TERMINAL BOX FOR CONDUIT AS REQUIRED.

TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.
FOR " X/P" TERMINAL BOX DIMENSIONS SEE 609979-9.
FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609979-10.

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

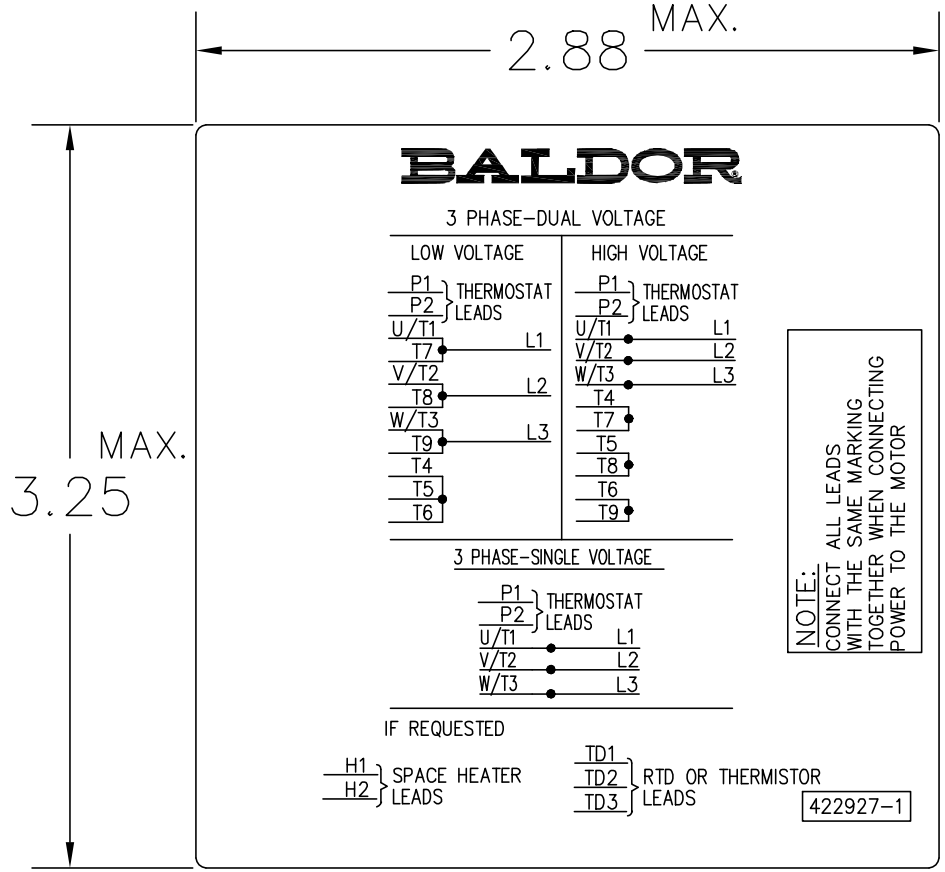
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MTL: -		

BALDOR

DIM SHT,L320 THRU L440,AUX C/BOX
SH 1 of 1

616779-022

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