

ABB BALDOR RELIANCE III

Customer information packet

P36G4670

60HP, 1780RPM, 3PH, 60HZ, 364T, A36042M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	58.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	58.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36042M

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A36WG0720
Layout	611740-001-SH1
Eff. date	03-03-2021
CD Diagram	416820-036
Poles	04
Leads	3#6
Proprietary	False
Created date	10-19-2010

Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.44 IN
Power Factor	82
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

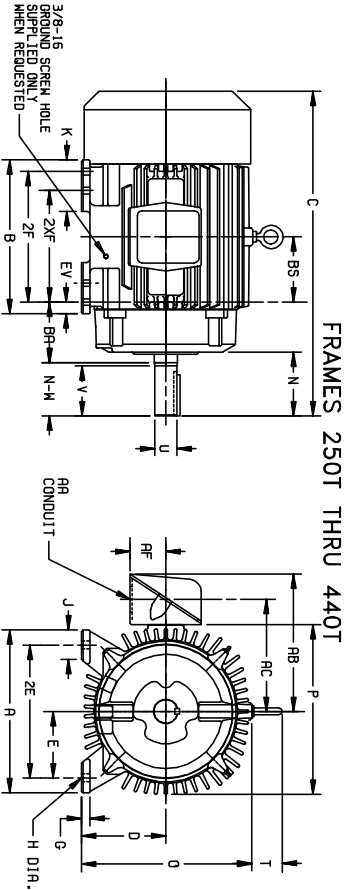
NP2531L									
CAT.NO.				SPEC NO.	P36G4670			FRAME	364T
HP	60		PHASE	3	DESIGN	B	TYPE	P	
RPM	1780		HZ	60	AMB	40	SF	1.15	
VOLTS	575	DUTY	CONT		INSUL.CLASS		F		
AMPS	58.7		ENCL	TEFC	CODE	G			
DRIVE END BEARING	65BC03J30X			NEMA-NOM-EFFICIENCY			93.6		
OPP D.E. BEARING	65BC03J30X								
	NOT FOR USE IN THE US								
SER.NO.				MOTOR WEIGHT					

611740-001-SH1

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

COOLING: FAN COOLED



FRAME	A	D(2)	E	G	H	J	K	O	P	T	AA	AB	AC	AF	BA	EV
254T-256T	12.50	6.25	5.00	.75	.56	2.50	---	13.25	13.25	2.44	1-1/4	10.75	8.75	2.50	4.25	1.00
284T-296T	13.75	7.00	5.50	.75	.56	2.50	---	14.75	14.88	2.44	1-1/2	12.75	10.00	3.19	4.75	1.00
324T-326T	15.50	8.00	6.25	.88	.69	2.75	4.50	16.69	17.00	2.44	2	15.19	11.44	4.25	5.25	1.38
364T-365T	17.00	9.00	7.00	.88	.69	2.75	3.88	18.50	19.50	2.94	3	18.08	14.00	5.38	5.88	1.38
404T-405T	19.00	10.00	8.00	1.12	.81	3.25	4.62	21.31	22.50	2.94	3	19.31	15.25	5.38	6.62	1.13
444T-445T	21.00	11.00	9.00	1.12	.81	3.25	5.25	23.38	25.25	3.25	3	23.38	18.12	6.50	7.50	1.25

FRAME	SIZE	C	BS	B	2F	(4) 2XF	N	AND KEY					WEIGHT (LBS.) (5)
								N-W(6)	U(3)	V	SQ.	LGTH.	
254T	24.56	5.00	12.00	---	---	8.25	4.12	4.00	1.625	3.75	3.75	2.88	305
256T	24.56	5.00	12.00	10.00	---	---	4.12	4.00	1.625	3.75	3.75	2.88	315
284T	27.44	5.50	13.00	---	---	9.50	5.00	4.62	1.875	4.38	5.00	3.25	435
284T	26.06	5.50	13.00	---	---	9.50	3.62	3.25	1.625	3.00	3.75	1.88	435
286T	27.44	5.50	13.00	11.00	---	---	5.00	4.62	1.875	4.38	5.00	3.25	450
286T	26.06	5.50	13.00	11.00	---	---	3.62	3.25	1.625	3.00	3.75	1.88	450
324T	30.44	6.00	14.75	---	---	10.50	5.62	5.25	2.125	5.00	5.00	3.88	540
324T	28.94	6.00	14.75	---	---	10.50	4.12	3.75	1.875	3.50	5.00	2.00	540
326T	30.44	6.00	14.75	12.00	---	---	5.62	5.25	2.125	5.00	5.00	3.88	580
326T	28.94	6.00	14.75	12.00	---	---	4.12	3.75	1.875	3.50	5.00	2.00	580
364T	33.44	6.12	15.00	---	---	11.25	6.25	5.88	2.375	5.62	6.25	4.25	800
364T	31.31	6.12	15.00	---	---	11.25	4.12	3.75	1.875	3.50	5.62	2.00	800
365T	33.44	6.12	15.00	12.25	---	---	4.12	3.75	1.875	3.50	5.00	2.00	834
365T	31.31	6.12	15.00	12.25	---	---	4.12	3.75	1.875	3.50	5.00	2.00	834
404T	38.31	6.88	16.00	---	---	12.25	7.50	7.25	2.875	7.00	7.50	5.62	1120
404T	35.31	6.88	16.00	---	---	12.25	4.50	4.25	2.125	4.00	5.00	2.75	1111
405T	38.31	6.88	16.00	13.75	---	---	7.50	7.25	2.875	7.00	7.50	5.62	1160
405T	35.31	6.88	16.00	13.75	---	---	4.50	4.25	2.125	4.00	5.00	2.75	1151
444T	44.62	8.25	19.00	---	---	14.50	8.94	8.50	3.375	8.25	8.75	6.88	1540
444T	40.88	8.25	19.00	---	---	14.50	5.19	4.75	2.375	4.50	6.25	3.88	1524
445T	44.62	8.25	19.00	16.50	---	---	8.94	8.50	3.375	8.25	8.75	6.88	1720
445T	40.88	8.25	19.00	16.50	---	---	5.19	4.75	2.375	4.50	6.25	3.88	1714

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES $\begin{cases} \text{---} 250T - 320T +.00, -.03. \\ \text{---} 360T - 440T +.00, -.06. \end{cases}$
- (3) "U" VARIES $\begin{cases} \text{---} \text{UP TO } 1.625 \text{ DIA.} +.0000, -.0005 \\ \text{---} 1.625 \text{ AND LARGER} +.000, -.001. \end{cases}$
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (6) "N-W" VARIES $+.00, -.25$.

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

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

REV. DESC: UPDATE TITLE SHEET 2

REV. LTR: B

VERSION: 02

TDR: 000000498266

FILE: \RAG\00000\167

REVISED: 07: 05: 46 04/29/2009

MTL: -

BY: RAGEC

Baldor • Dodge • Reliance

DIM SHEET 250T THRU 440T

SH 1 of 1

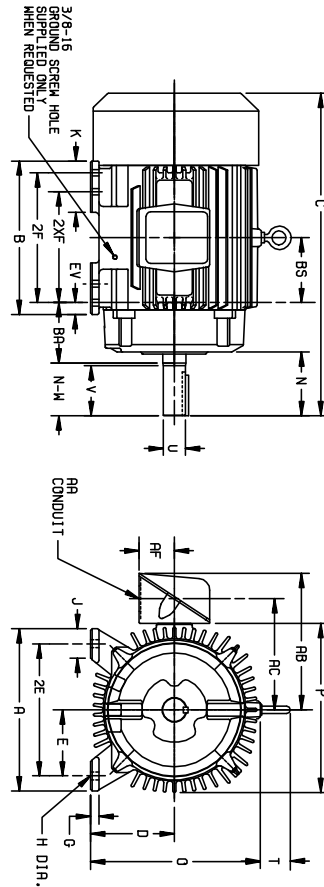
611740-001-SH1

DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 250T THRU 440T

COOLING: FAN COOLED



DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

	FRAME	D/2	E	G	H	J	K	O	P	T	STEEL TENSILE BOX					
(1)											AA/OT	AB	AC	AF	BA	EV
	254/-2561	3175	1958	121.0	19.0	14.2	63.5	--	336.5	336.5	62.0	11.7/23.0	222.3	63.5	108.0	25.4
	284/-28615	349.2	177.8	139.7	19.0	14.2	63.5	--	374.6	378.0	62.0	-1/-2	323.8	54.0	81.0	25.4
	324/-32615	353.3	202.2	156.8	22.4	17.5	69.9	114.3	423.9	431.8	62.0	2	358.7	59.6	108.0	33.3
	364/-36515	351.8	226.6	177.8	22.4	17.5	69.9	98.6	469.3	459.5	74.7	3	355.6	250.6	108.0	33.3
	404/-40515	482.5	254.0	203.2	28.4	20.6	82.5	117.3	561.3	571.5	74.7	3	490.5	387.3	136.7	25.4
	444/-44515	549.2	279.4	236.7	28.4	20.6	82.5	133.3	593.9	578.3	82.5	3	593.9	480.2	165.1	25.4

(1)	FRAME	B			ZF	(4)		SHAT		AND KEY			WGHT (5)
		C	BS	B		2XK	N	N-WG6	U(3)	SD	LGTH		
2541	62.38	12.0	30.48	25.40	---	104.6	101.6	41.27	95.3	9.52	73.2	138	
2542	62.38	12.0	30.48	25.40	---	104.6	101.6	41.27	95.3	9.52	73.2	138	
2543	62.38	12.0	30.48	25.40	---	104.6	101.6	41.27	95.3	9.52	73.2	138	
2544	66.19	13.67	33.02	---	241.3	91.9	82.5	41.27	76.2	8.92	62.8	197	
2545	66.19	13.67	33.02	---	241.3	91.9	82.5	41.27	76.2	8.92	62.8	197	
2546	66.19	13.67	33.02	---	241.3	91.9	82.5	41.27	76.2	8.92	62.8	197	
2547	66.19	13.67	33.02	---	241.3	91.9	82.5	41.27	76.2	8.92	62.8	197	
3241	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3242	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3243	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3244	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3245	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3246	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3247	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3248	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3249	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3250	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3251	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3252	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3253	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3254	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3255	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3256	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3257	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3258	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3259	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3260	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3261	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3262	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3263	77.32	15.24	37.46	---	286.7	142.7	133.3	53.97	127.0	12.70	98.6	244	
3264	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3265	79.93	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3266	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3267	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3268	79.93	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3269	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3270	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3271	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3272	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3273	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3274	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3275	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3276	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3277	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3278	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3279	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3280	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3281	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3282	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3283	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3284	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3285	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3286	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3287	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3288	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3289	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3290	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3291	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3292	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3293	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3294	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3295	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3296	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3297	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3298	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3299	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3300	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3301	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3302	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3303	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3304	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3305	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3306	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3307	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3308	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3309	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3310	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3311	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3312	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3313	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3314	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3315	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3316	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3317	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3318	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3319	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3320	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3321	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3322	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3323	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3324	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3325	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3326	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3327	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3328	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3329	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3330	84.94	15.54	38.10	---	285.7	158.8	149.4	60.53	142.7	15.88	108.0	362	
3331	84.94	15.54	38.10	---	285.7	158.8	149.						

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES — $\begin{matrix} 250T - 320T + 0, -8, \\ 360T - 440T + 0, -1.5, \end{matrix}$
- (3) "U" VARIES — $\begin{matrix} \text{UP TO } 41.27 \text{ DIA.} + .000, -.013 \\ 41.27 \text{ AND LARGER} + .00, -.03 \end{matrix}$
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .05 T.I.R. UP TO AND INCLUDING 41/27 DIA. AND .06 T.I.R. 41/27 DIA. TO 12/20 MILL. DIA.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .05 T.I.R. UP TO AND INCLUDING 41.27 DIA. AND .08 T.I.R. 41.27 DIA. TO 127.00 MILL. DIA.

- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
(6) "N-W" VARIES +.0, -6.4.
(7) DIMENSIONS ARE IN INCHES.

FRAME-_____TYPE-_____CERTIFIED FOR-_____
 ORDER-_____ITEM-_____HP-_____RPM-_____PH-_____HZ-_____VOLTS-_____
 RELANCE SALES ORDER-_____APPROVED BY-_____DATE-_____

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

REV. DESC: UPDATE TITLE

REV. LTR: B

VERSION: 02

TDR: 000000498266

FILE: \RAG\00000\168

REVISÉ: 14:03:30 04/28/2009

MTL: —

BY: RAGEC

Baldor • Dodge • Reliance

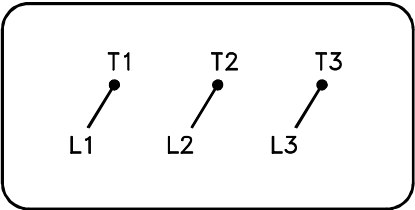
DIM SHEET 250T THRU 440T METRIC

SH 1 of 1

611740-001-SH2

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1