

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							

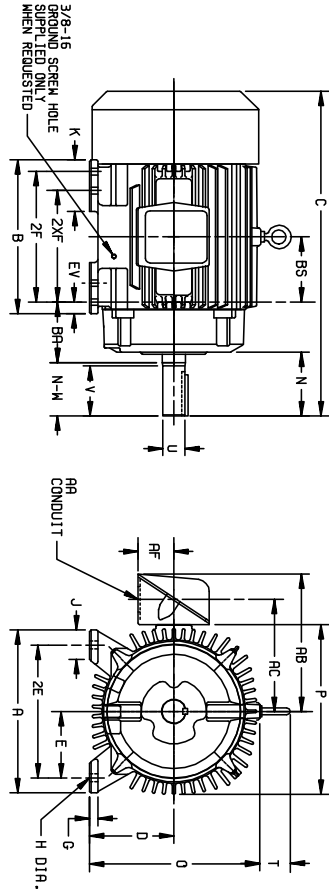
611740-001-SH1

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 250T THRU 440T

COOLING: FAN COOLED



DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

FRAME SIZE	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	7.5	56	2.50	---	13.25	13.25	2.44	1-1/4	10.75	8.75	2.50	4.25	1.00
284T-296T5	13.75	7.00	5.50	7.5	56	2.50	---	14.75	14.88	2.44	1-1/2	12.75	10.00	3.19	4.75	1.00
324T-326T5	15.50	8.00	6.25	8.8	69	2.75	4.50	16.89	17.00	2.44	2	15.19	11.44	4.25	5.25	1.58
364T-365T5	17.00	9.00	7.00	8.8	69	2.75	3.88	18.50	19.50	2.94	3	18.08	14.00	5.38	5.88	1.58
404T-405T5	19.00	10.00	8.00	11.2	81	3.25	4.62	21.51	22.50	2.94	3	19.51	15.25	5.38	6.62	1.13
444T-445T5	21.00	11.00	9.00	11.2	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	N	SHAFT AND KEY		WEIGHT LBS. (5)				
						N-W(6) U(3)	V					
254T	24.56	5.00	12.00	---	8.25	4.12	4.00	1.625	3.75	3.75	2.88	3.05
256T	24.56	5.00	12.00	10.00	---	4.12	4.00	1.625	3.75	3.75	2.88	3.15
284T	27.44	5.50	13.00	---	9.50	5.00	4.62	1.875	4.38	5.00	3.25	4.35
284T5	26.06	5.50	13.00	---	9.50	3.82	3.25	1.625	3.00	3.75	1.98	4.35
296T	27.44	5.50	13.00	11.00	---	5.00	4.62	1.875	4.38	5.00	3.25	4.50
296T5	26.06	5.50	13.00	11.00	---	3.82	3.25	1.625	3.00	3.75	1.98	4.50
324T	30.44	6.00	14.75	---	10.50	5.82	5.25	2.125	5.00	5.00	3.88	5.40
324T5	28.94	6.00	14.75	---	10.50	4.12	3.75	1.875	3.50	5.00	2.00	5.80
326T	30.44	6.00	14.75	12.00	---	4.12	3.75	1.875	3.50	5.00	2.00	5.80
326T5	28.94	6.00	14.75	12.00	---	3.75	3.75	1.875	3.50	5.00	2.00	5.80
364T	33.44	6.12	15.00	---	11.25	6.25	5.88	2.375	5.62	6.25	4.25	6.00
364T5	31.31	6.12	15.00	---	11.25	4.12	3.75	1.875	3.50	5.00	2.00	7.94
365T	33.44	6.12	15.00	12.25	---	6.25	5.88	2.375	5.62	6.25	4.25	6.40
365T5	31.31	6.12	15.00	12.25	---	4.12	3.75	1.875	3.50	5.00	2.00	8.34
404T	38.31	6.88	16.00	---	12.25	7.50	7.25	2.875	7.00	7.50	5.62	11.20
404T5	36.31	6.88	16.00	---	12.25	4.12	3.75	1.875	3.50	5.00	2.00	11.11
405T	38.31	6.88	16.00	13.75	---	7.50	7.25	2.875	7.00	7.50	5.62	11.60
405T5	35.31	6.88	16.00	13.75	---	4.50	4.25	2.125	4.00	5.00	2.75	11.51
444T	44.62	8.25	19.00	---	14.50	8.94	8.50	3.375	8.25	8.75	6.88	15.40
444T5	40.88	8.25	19.00	---	14.50	5.19	4.75	2.375	4.50	6.25	3.00	15.24
445T	44.62	8.25	19.00	16.50	---	8.94	8.50	3.375	8.25	8.75	6.88	17.20
445T5	40.88	8.25	19.00	16.50	---	5.19	4.75	2.375	4.50	6.25	3.00	17.14

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES $\begin{cases} 250T - 320T +.00, -.03. \\ 360T - 440T +.00, -.06. \end{cases}$ CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1, W-4-M-SH-7, OR C-1 MOUNTING IS SPECIFIED.
- (3) "U" VARIES $\begin{cases} \text{UP TO 1.625 DIA.} +.0000, -.0005 \\ 1.625 \text{ AND LARGER} +.000, -.001. \end{cases}$ IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING. MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (6) "N-W" VARIES +.00, -.25.

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

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

REV. DESC: UPDATE TITLE SHEET 2	TDR: 00000498266
REV. LTR: B	VERSION: 02
FILE: \RAG\00000\167	REVISED: 07: 05: 46 04/29/2009
MTL: -	BY: RAGEC

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DIM SHEET 250T THRU 440T
SH 1 of 1

611740-001-SH1

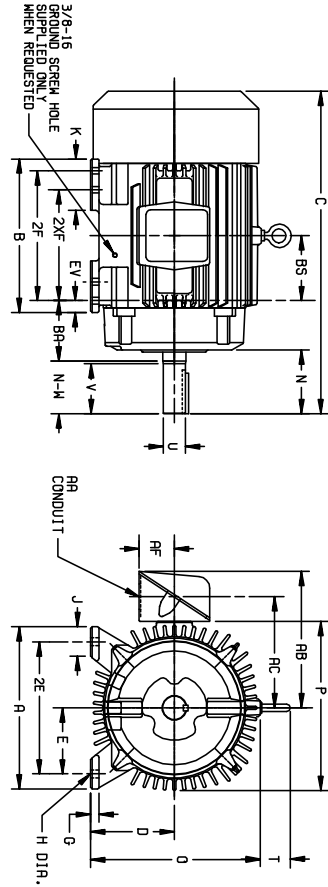
611740-001-SH2

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 250T THRU 440T

COOLING: FAN COOLED



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

FRAME	A	D(2)	E	G	H	J	K	O	P	T	STEEL TERMINAL BOX				EA	EV
										AA(7)	AB	AC	AD	AE	AF	AG
254T-256T	317.5	158.8	127.0	19.0	14.2	63.5	---	336.5	336.5	62.0	1-1/4	273.0	222.3	63.5	108.0	25.4
264T-266T	349.2	177.8	139.7	19.0	14.2	63.5	---	374.6	378.0	62.0	1-1/2	323.8	254.0	81.0	120.7	25.4
324T-326T	393.7	203.2	158.8	22.4	17.5	69.9	114.3	423.9	431.8	62.0	2	385.8	290.6	108.0	133.3	35.1
364T-365T	431.8	228.6	177.8	22.4	17.5	69.9	98.6	469.9	495.3	74.7	3	458.7	355.6	136.7	149.4	35.1
404T-405T	482.6	254.0	203.2	28.4	20.6	82.5	117.3	541.3	571.5	74.7	3	490.5	397.3	136.7	168.1	28.7
444T-445T	533.4	279.4	228.6	28.4	20.6	82.5	133.3	593.9	641.3	82.5	3	593.9	460.2	165.1	190.5	31.7

FRAME	C	BS	B	ZF	(4) 2XF	N	N-W(6)	SHAFT AND KEY				LGTH.	WEIGHT
SIZE								V	SO.	SQ.		(3)	
254T	623.8	127.0	304.8	---	209.6	104.6	101.6	41.27	93.3	93.2	73.2	138	
264T	623.8	127.0	304.8	254.0	---	104.6	101.6	41.27	93.3	93.2	73.2	142	
284T	697.0	138.7	330.2	---	241.3	127.0	117.3	47.63	111.3	127.0	82.5	197	
286T	661.9	138.7	330.2	279.4	---	127.0	117.3	47.63	111.3	127.0	82.5	204	
288T	697.0	138.7	330.2	279.4	---	127.0	117.3	47.63	111.3	127.0	82.5	204	
288T	661.9	138.7	330.2	279.4	---	127.0	117.3	47.63	111.3	127.0	82.5	204	
324T	773.2	152.4	374.6	---	286.7	142.7	133.3	53.97	127.0	127.0	86.6	244	
324T	773.2	152.4	374.6	---	286.7	142.7	133.3	53.97	127.0	127.0	86.6	244	
326T	773.2	152.4	374.6	---	286.7	142.7	133.3	53.97	127.0	127.0	86.6	244	
326T	735.1	152.4	374.6	304.8	---	104.6	99.3	47.63	88.9	127.0	80.8	283	
364T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33	142.7	158.8	108.0	362	
364T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33	142.7	158.8	108.0	362	
365T	795.3	155.4	381.0	311.1	---	158.8	149.4	60.33	142.7	158.8	108.0	378	
365T	795.3	155.4	381.0	311.1	---	158.8	149.4	60.33	142.7	158.8	108.0	378	
404T	973.1	174.8	406.4	---	311.1	190.5	184.1	73.02	177.8	190.5	142.7	508	
404T	973.1	174.8	406.4	---	311.1	190.5	184.1	73.02	177.8	190.5	142.7	508	
405T	896.9	174.8	406.4	349.2	---	190.5	184.1	73.02	177.8	190.5	142.7	526	
405T	896.9	174.8	406.4	349.2	---	190.5	184.1	73.02	177.8	190.5	142.7	526	
444T	1133.3	209.6	482.6	---	388.3	227.1	215.9	85.12	209.6	222.2	174.8	699	
444T	1133.3	209.6	482.6	---	388.3	227.1	215.9	85.12	209.6	222.2	174.8	699	
445T	1133.3	209.6	482.6	419.1	---	227.1	215.9	85.12	209.6	222.2	174.8	784	
445T	1133.3	209.6	482.6	419.1	---	227.1	215.9	85.12	209.6	222.2	174.8	784	
445T	1038.4	209.6	482.6	419.1	---	131.8	120.7	60.33	114.3	158.8	76.2	777	

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE. CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1, W-4-W-5-W-7, OR C-1 MOUNTING IS SPECIFIED.
- (2) "D" VARIES $\left\{ \begin{array}{l} 250T - 320T +0, -8. \\ 360T - 440T +0, -1.5. \\ \text{UP TO 41.27 DIA. +.000, -.013} \end{array} \right.$ IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
- (3) "U" VARIES $\left\{ \begin{array}{l} 41.27 \text{ AND LARGER} +.00, -.03 \\ \text{MOUNTING.} \end{array} \right.$ 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.
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (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 _____
 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	TDR: 000000498266
REV. LTR: B	VERSION: 02
FILE: \RAG\00000\168	REVISED: 14:03:30 04/28/2009
MTL: -	BY: RAGEC

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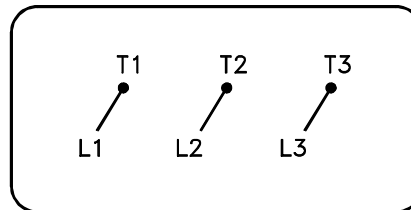
DIM SHEET 250T THRU 440T METRIC

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