

ABB BALDOR RELIANCE III

Customer information packet OF3360T

60HP, 1125RPM, 3PH, 60HZ, 404T, 1654M, OPEN, F2

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	404T
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	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 796.0 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	71.600 A @ 460.0 V 41.300 A @ 796.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	41.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 6 AWG

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A40WG0517
Layout	611750-001
Eff. date	02-05-2019
CD Diagram	416820-004
Poles	06
Leads	6#6
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A40054M
Mounting Arrangement	F2
Number of Poles	6
Power Factor	88
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1130 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2531L									
CAT.NO.				SPEC NO.	P40G733			FRAME	404T
HP	60			PHASE	3	DESIGN	D	TYPE	P
RPM	1130			HZ	60	AMB	40	SF	1.15
VOLTS	460/796	DUTY	CONT			INSUL.CLASS		F	
AMPS	71.6/41.3		ENCL	DP	CODE	G			
DRIVE END BEARING	80BC03J30X					NEMA-NOM-EFFICIENCY		89.5	
OPP D.E. BEARING	80BC03J30X								
	OVER TEMP PROT 2								
SER.NO.				MOTOR WEIGHT					

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	404T	60	P	3/60	1130	460/796
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
71.6/41.3	CONT	40/F	1.0	D	G	ODP
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
596135	418142075DA	---	---	.112/.337		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	12.2	1200	6.73	0	
1/4	15.0	15.7	1183	57.9	89.2	
2/4	30.0	22.6	1166	78.5	91.6	
3/4	45.0	31.3	1148	85.5	91.0	
4/4	60.0	41.3	1128	87.8	89.5	
5/4	75.0	51.8	1105	89.6	87.5	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	289	807	251		
PULL UP	0	289	807	251		
BREAKDOWN	750	324	906	197		
FULL LOAD	1128	100	279	41.3		
AMPERES SHOWN FOR 796. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA						
		DR. BY J. P. TSAO CK. BY W. L. SMITH APP. BY W. L. SMITH DATE 04/09/14		A-C MOTOR PERFORMANCE DATA A40WG0517-R001 ISSUE DATE 04/09/14		

REL S.O.

RPM 1130

S.F. 1.0

ROTOR 418142075DA

FRAME 404T

VOLTS 460/796

NEMA DESIGN D

TEST S.O. TYPICAL DATA

HP 60

AMPS 71.6/41.3

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE ODP

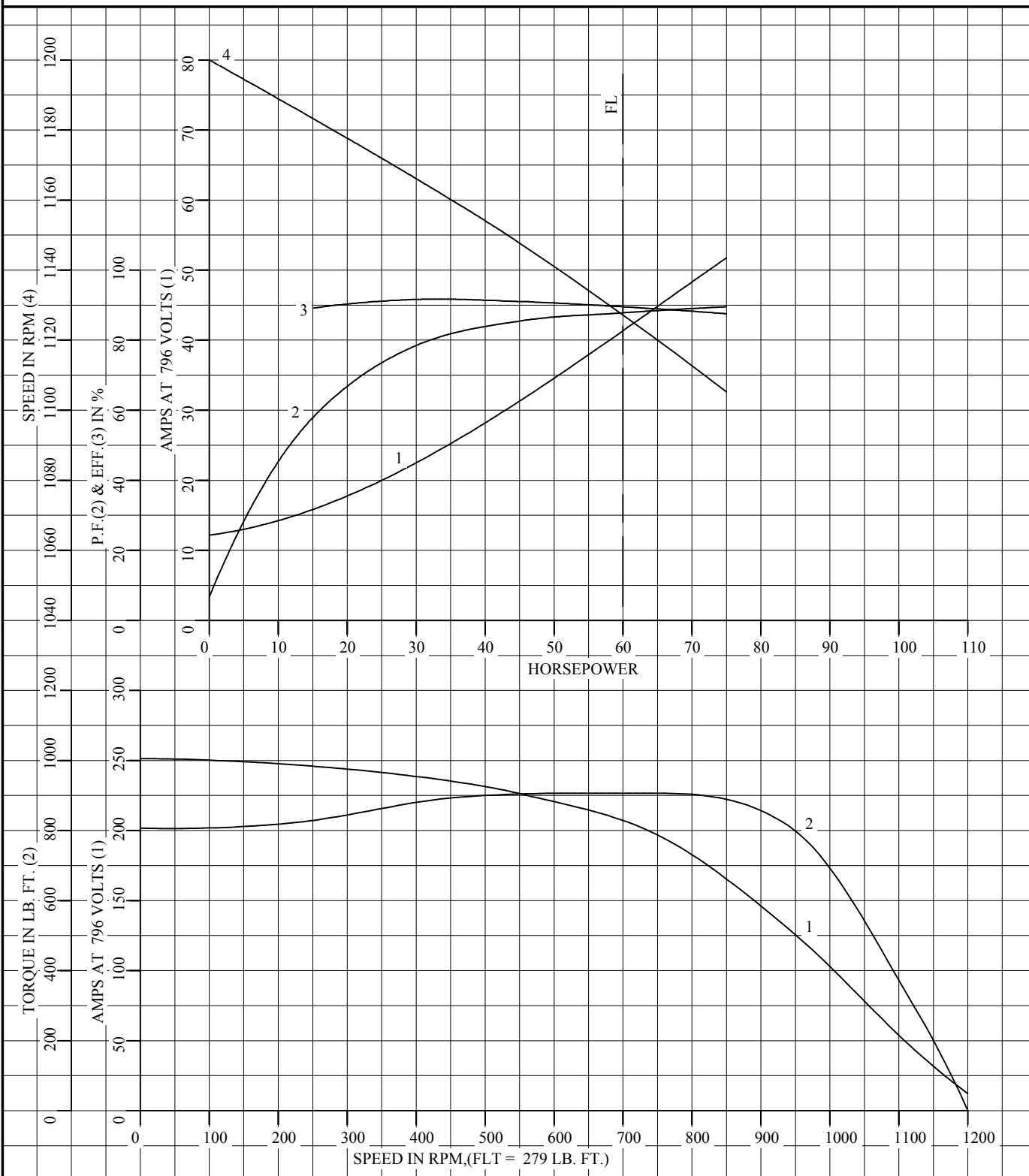
STATOR RES. @ 25 °C .112/.337

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 596135

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 796 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J. P. TSAO
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 04/09/14

**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0517-R001
ISSUE DATE 04/09/14

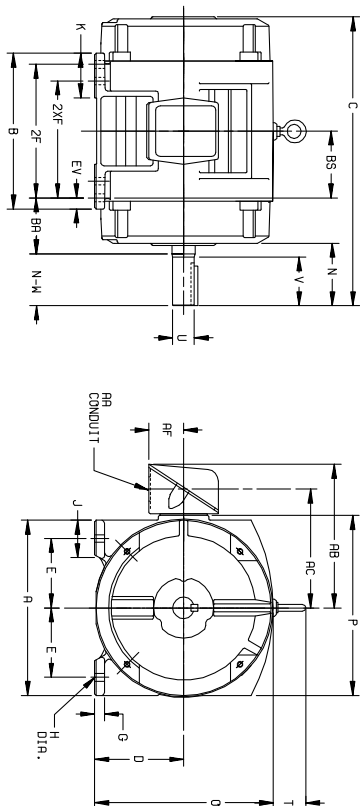
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: PROTECTED
MOUNTING: FOOT

COOLING: SELF-VENTILATED

FRAMES 250T THRU 440T



DIMENSIONS ARE IN INCHES

FRAME	STEEL TERMINAL BOX															
	A	D(2)	E	G	H	J	K	O	P	T	AA	AB	AC	AF	BA	EV
254T-261T	12.50	6.25	5.00	.69	.56	.225	3.75	14.61	12.69	2.44	-1/4	10.19	8.19	2.50	4.25	.62
264T-265T	14.00	7.00	5.50	.75	.56	.225	3.75	14.12	14.31	2.44	-1/2	12.19	9.44	3.41	4.75	1.00
324T-326TS	15.75	8.00	6.25	.88	.69	3.12	4.00	16.10	16.42	2.44	2	14.25	10.75	4.25	5.25	1.00
334T-336TS	17.00	9.00	7.00	.88	.69	3.00	3.75	18.30	19.56	2.44	3	14.06	14.00	5.38	5.88	1.12
404T-405TS	19.00	10.00	8.00	1.12	.81	3.25	4.75	20.58	21.81	2.44	3	19.06	15.00	4.38	6.62	1.12
444T-445TS	21.00	11.00	9.00	1.12	.81	3.25	5.25	22.91	23.62	3.25	3	22.62	17.38	5.50	7.50	1.25

FRAME	C	BS	B	2F	(4)	2F	N-(W6)	SHAFT	U	SO.	LGTH	WEIGHT
SIZE								(5/3)				(LBS.)
254T	22.44	5.00	11.25	10.00	8.25	4.25	4.00	1.625	3.75	3.75	2.75	265
256T	22.44	5.00	11.25	10.00	---	4.25	4.00	1.625	3.75	3.75	2.75	275
284T	24.94	5.50	13.00	---	9.50	4.88	4.62	1.875	4.38	5.00	3.35	340
284T	23.56	5.50	13.00	---	9.50	3.50	3.25	1.625	3.50	3.75	1.88	340
286T	24.94	5.50	13.00	11.00	---	4.88	4.62	1.875	4.38	5.00	3.35	370
296T	23.56	5.50	13.00	11.00	---	---	3.75	1.625	3.50	3.75	1.88	370
324T	27.56	6.00	14.00	---	10.50	5.50	5.25	2.125	5.00	5.00	3.75	465
326T	25.56	6.00	14.00	---	10.50	4.00	3.75	1.625	3.50	5.00	2.75	505
326T	26.96	6.00	14.00	12.00	---	4.00	3.75	1.875	5.00	5.00	2.75	505
364T	29.70	6.12	14.25	---	11.25	6.12	5.88	2.375	5.62	6.25	4.75	715
364T	27.68	6.12	14.25	---	11.25	4.00	3.75	1.875	5.50	5.00	2.75	715
365T	29.70	6.12	14.25	12.25	---	6.12	5.88	2.375	5.62	6.25	4.75	755
365T	27.58	6.12	14.25	12.25	---	4.00	3.75	1.875	5.50	5.00	2.75	755
365T	29.70	6.12	14.25	12.25	---	4.00	3.75	1.875	5.50	5.00	2.75	755
404T	34.00	6.88	16.00	---	12.25	7.62	7.25	2.875	7.00	7.50	5.00	1025
404T	31.00	6.88	16.00	---	12.25	4.62	4.25	2.125	4.00	5.00	2.75	1020
405T	34.00	6.88	16.00	13.75	---	7.62	7.25	2.875	7.00	7.50	5.00	1065
405T	31.00	6.88	16.00	13.75	---	4.62	4.25	2.125	4.00	5.00	2.75	1060
444T	39.56	8.25	19.00	---	14.50	8.94	8.50	3.375	8.25	8.75	6.88	1715
444T	35.81	8.25	19.00	---	14.50	5.19	4.75	2.375	5.00	6.25	3.00	1710
445T	39.56	8.25	19.00	16.50	---	8.94	8.50	3.375	8.25	8.75	6.88	1755
445T	35.81	8.25	19.00	16.50	---	5.19	4.75	2.375	5.00	6.25	3.00	1750

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES $\begin{cases} 2501 - 3201 + .00, -.03 \\ 3601 - 4401 + .00, -.06 \end{cases}$
- (3) "U" VARIES +.000, -.001
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

ORDER _____ ITEM _____ HP _____ RPM _____ PH _____ HZ _____ VOLTS _____
 SALES ORDER _____ APPROVED BY _____ DATE _____

611750-001

611750-001

Baldor • Dodge • Reliance

DIM SHT PROT SV FT 250-440T
SH 1 of 1

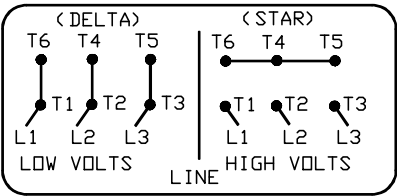
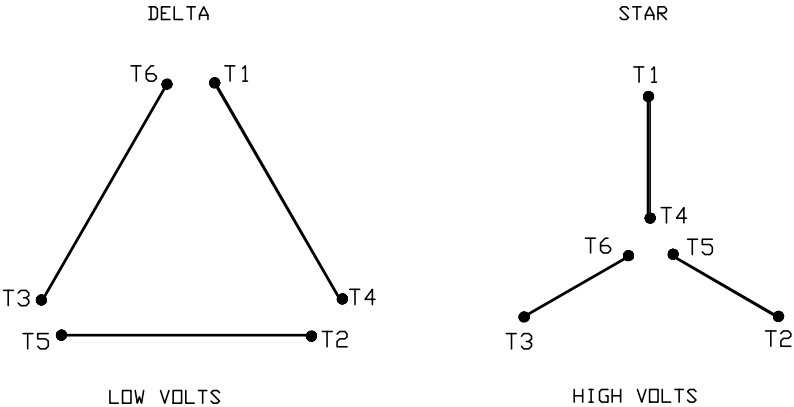
SH 1 of 1

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

REV. DESC: ASSIGNED TO BUSLOAD		
REV. LTR: A	VERSION: 01	TDR: 000000489455
FILE: \RAG\00008\297	REVISED: 15:03:33 02/02/2009	BY: RAGZJR
MTL: -		

416820-004

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 6 LEAD < DELTA/STAR CONNECTED >
DUAL VOLTAGE < LOW VOLTS/HIGH VOLTS >



< N. P. 1767-CC >

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: C	VERSION: 03	TDR: 000001009406
FILE: \RSN\00017\950	REVISED: 10:55:03 12/21/2016	BY: MGHMTT
MTL: -	© □	

BALDOR

A-C MOTOR CONNECTION DIAGRAM
SH 1 of 1

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