

BALDOR® • RELIANCE 

Product Information Packet

M2565T-4

250HP,3560RPM,3PH,60HZ,445TS,ODP,FOOT,

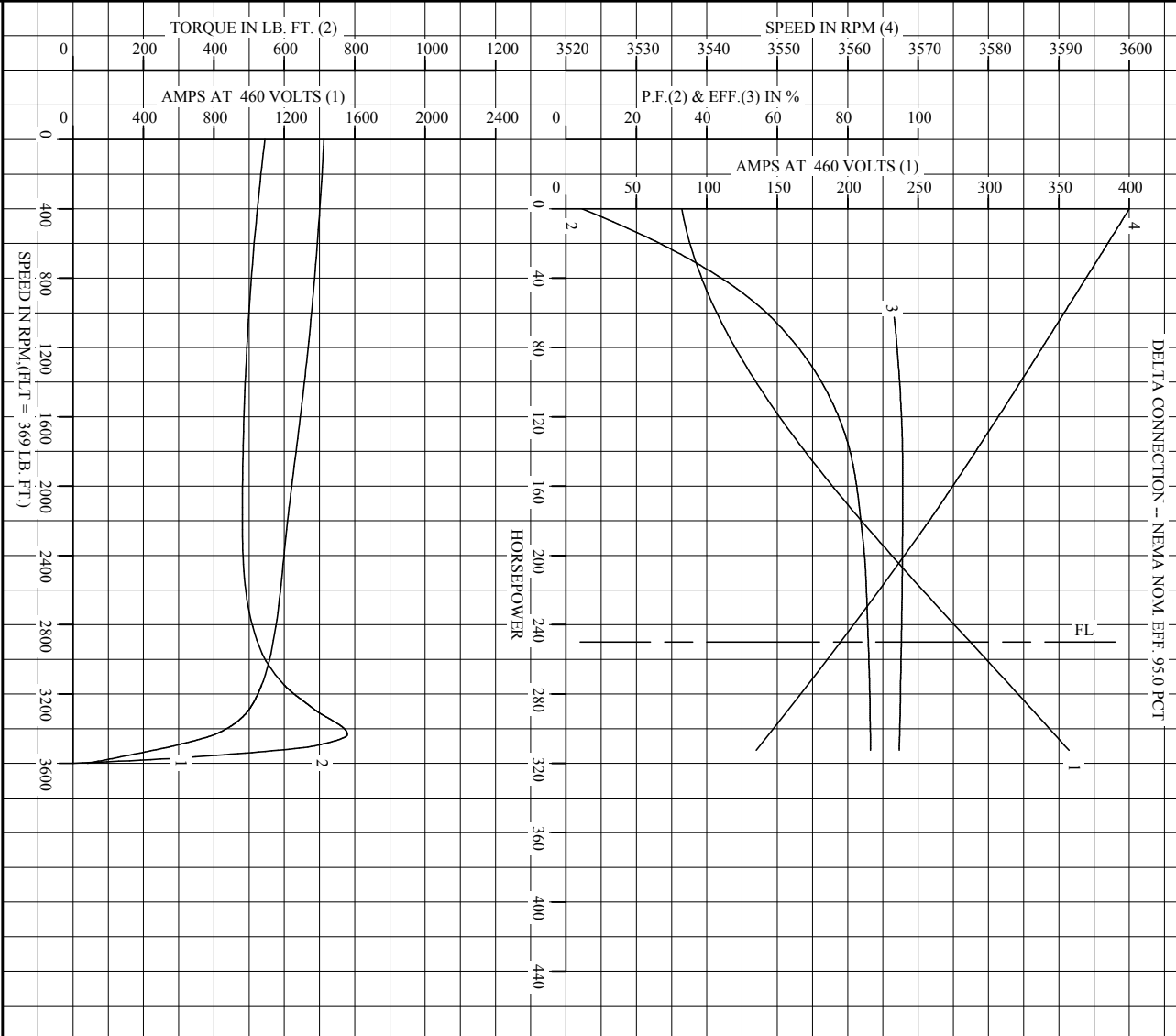
Part Detail							
Revision:	K	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	A44WG1508	CD Diagram:	416820-008	Mfg Plant:	
Mech. Spec:		Layout:	611750-001	Poles:	02	Created Date:	10-19-2010
Base:		Eff. Date:	03-04-2016	Leads:	6#1		

Specs			
Catalog Number:	M2565T-4	Heater Indicator:	No Heater
Enclosure:	DP	Insulation Class:	B
Frame:	445TS	Inverter Code:	Not Inverter
Frame Material:	Iron	KVA Code:	E
Output @ Frequency:	250.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 1 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Type:	A44056M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	86
Agency Approvals:	CCSA US	Pulley End Bearing Type:	Ball
	CSA EEV	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Shaft Ground Indicator:	No Shaft Grounding
Base Indicator:	Rigid	Shaft Rotation:	Reversible
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Slinger Indicator:	No Slinger
Current @ Voltage:	286.000 A @ 460.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Wye Start - Delta Run
Duty Rating:	CONT	Thermal Device - Bearing:	None

Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
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Nameplate NP2301L									
CAT.NO.	M2565T-4	SPEC NO.	P44G4401						
HP	250	AMPS	286	VOLTS	460	DESIGN	B		
FRAME	445TS	RPM	3560	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	65BC03J30X	PHASE	3	DUTY	CONT	INSUL.CLASS	B		
OPP D.E. BEARING	65BC03J30X	TYPE	P	ENCL	DP	CODE	E		
SER.NO.		POWER FACTOR	86	NEMA-NOM-EFFICIENCY	94.5				
		MAX CORR KVAR	50	GUARANTEED EFFICIENCY	93.6				
				NEMA NOM/CSA QUOTED EFF					
				MOTOR WEIGHT	1389				

REL. S. O. RPM 3560 S.F. 1.15 ROTOR 418143014CE
 FRAME 445TS VOLTS 460 NEMA DESIGN B TEST S.O. TYPICAL DATA
 HP 250 AMPS 286 CODE LETTER E TEST DATE ---
 TYPE P DUTY CONT ENCLOSURE PROT STATOR RES. @ 25 °C .0193
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 497617 OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 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 T.G. KEATI
 CK. BY W.L. SMITH
 App. BY T.G. KEATI
 DATE 04/08/2011

A-C MOTOR PERFORMANCE CURVES
 A44W/G1508-R001
 ISSUE DATE 04/08/2011

Printed on 4/8/11 11:41 @ ragsun

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	445TS	250	P	3/60	3560	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
286	CONT	40/F	1.15	B	E	PROT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C (OHMS (BETWEEN LINES))		
497617	418143014CE	---	---	.0193		

PERFORMANCE


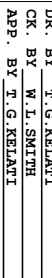
LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %
NO LOAD	0	82.6	3600	4.57	0
1/4	62.6	108	3590	58.3	93.2
2/4	125	156	3581	78.4	95.4
3/4	187	218	3570	84.2	95.6
4/4	250	286	3559	85.8	95.2
5/4	313	357	3547	86.5	94.6

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	148	545	1425
PULL UP	2170	130	481	1222
BREAKDOWN	3433	211	779	806
FULL LOAD	3559	100	369	286

AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: TYPICAL DATA
DELTA CONNECTION -- NEMA NOM. EFF. 95.0 PCT

	DR. BY	T.G. KELAHI	A-C MOTOR PERFORMANCE DATA
	CK. BY	W.I. SMITH	
		APP. BY	T.G. KELAHI
A MEMBER OF THE ABB GROUP		DATE	04/08/2011
		ISSUE DATE	04/08/20

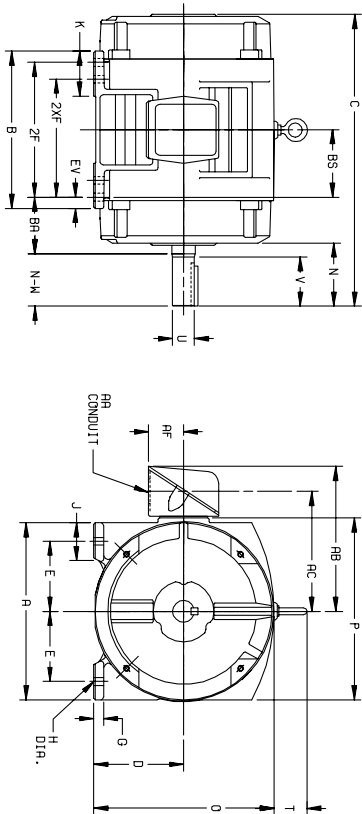
611750-001

DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: PROTECTED
MOUNTING: FOOT

FRAMES 250T THRU 440T

COOLING: SELF-VENTILATED



DIMENSIONS ARE IN INCHES

FRAME	A	D(2)	E	G	H	J	K	O	P	T	STEEL TERMINAL BOX						EV
											AA	AB	AC	AF	BA	EA	
254T-256T	12.50	6.25	5.00	.69	.56	2.25	3.50	12.81	12.69	2.44	1-1/4	10.19	8.19	2.50	4.25	.62	
284T-286T	14.00	7.00	5.50	.75	.56	2.75	3.75	14.12	14.31	2.44	1-1/2	12.19	9.44	3.19	4.75	1.00	
324T-326T	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	
364T-366T	17.00	9.00	7.00	.88	.69	3.00	3.62	18.30	19.56	2.94	3	18.06	14.00	5.38	5.88	1.00	
404T-406T	19.00	10.00	8.00	1.12	.81	3.25	4.75	20.56	21.81	2.94	3	19.06	15.00	4.38	6.62	1.12	
444T-446T	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	SIZE	C	BS	B	ZF	2XF	N	O	P	T	SHAFT AND KEY			WEIGHT LBS. (5)
											N-W(6)	U(3)	V	
254T	22.44	5.00	11.25	---	8.25	4.25	4.00	1.625	3.75	.375	2.75	.265	265	
256T	22.44	5.00	11.25	10.00	---	4.25	4.00	1.625	3.75	.375	2.75	.275	275	
284T	24.94	5.50	13.00	---	9.50	4.88	4.62	1.875	4.38	.500	3.25	.340	340	
286T	24.94	5.50	13.00	---	9.50	4.88	4.62	1.875	4.38	.500	3.25	.370	370	
286T	23.56	5.50	13.00	11.00	---	3.50	3.25	1.625	3.00	.375	1.88	.370	370	
324T	27.56	6.00	14.00	---	10.50	4.00	3.75	1.875	3.50	.500	3.75	.465	465	
324T	26.06	6.00	14.00	12.00	---	5.00	3.25	1.725	3.00	.500	3.75	.505	505	
326T	27.56	6.00	14.00	12.00	---	5.00	3.25	1.725	3.00	.500	3.75	.505	505	
326T	26.06	6.00	14.00	14.00	---	6.12	3.88	2.375	3.50	.500	2.00	.710	710	
364T	29.70	6.12	14.25	---	11.25	6.12	3.88	2.375	3.50	.500	2.00	.710	710	
364T	29.70	6.12	14.25	12.25	---	6.12	3.88	2.375	3.50	.500	2.00	.710	710	
365T	29.70	6.12	14.25	12.25	---	6.12	3.88	2.375	3.50	.500	2.00	.710	710	
365T	27.56	6.12	14.25	12.25	---	4.00	3.75	1.875	3.50	.500	2.00	.750	750	
404T	34.00	6.88	16.00	---	12.25	7.62	4.25	2.125	4.00	.500	2.75	1.020	1020	
404T	34.00	6.88	16.00	13.75	---	7.62	4.25	2.125	4.00	.500	2.75	1.060	1060	
405T	34.00	6.88	16.00	13.75	---	7.62	4.25	2.125	4.00	.500	2.75	1.060	1060	
405T	31.00	6.88	16.00	13.75	---	4.62	4.25	2.125	4.00	.500	2.75	1.060	1060	
444T	39.56	8.25	19.00	---	14.50	8.94	4.50	3.375	4.25	.875	6.88	1.715	1715	
444T	39.56	8.25	19.00	14.50	---	8.94	4.75	3.375	4.50	.875	6.88	1.750	1750	
445T	39.56	8.25	19.00	16.50	---	8.94	4.75	3.375	4.50	.875	6.88	1.750	1750	
445T	35.81	8.25	19.00	16.50	---	5.19	4.75	2.375	4.50	.625	5.00	1.750	1750	

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
 - (2) "D" VARIES [290T - 320T +.00, -.03.
 - (3) "J" VARIES +.000, -.001
 - (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
 - (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1, W-4-W-5-W-7, OR C-1 MOUNTING IS SPECIFIED.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

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 .005 T.I.R. ABOVE 1.625 TO 5 INCH DIA.

FRAMES: N-W VARIES +.00, -.25; PE-
 ORDER: ITEM- HP- CERTIFIED FOR- RPM- PH- HZ VOLTS
 SALES ORDER- APPROVED BY- DATE

100-057119

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

REV. DESC: ASSIGNED TO BUSLOAD	VERSION: 01	TDR: 000000489455
REV. LTR: A	REVISED: 15:03:33 02/02/2009	BY: RAG2JR
FILE: \RAG\00008\297		
MTL: -		

Baldor • Dodge • Reliance

DIM SHT PROT SV FT 250-440T

SH 1 of 1

SHAFT-BLK	Sample- <u>BLK</u>	Diameter AP	Sequence # 0000001 A	Material Spec BLKAP0000001A																																																																																																																																											
	<table border="1"> <thead> <tr> <th>Diameter</th> <th>Code</th> <th>Sequence #</th> <th>Material Spec</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>1.5</td><td>AA</td><td>XXXXXXX</td><td>046024-</td><td></td></tr> <tr><td>1.625</td><td>AB</td><td></td><td>FS CL1</td><td>A</td></tr> <tr><td>1.75</td><td>AC</td><td></td><td>FS CL2</td><td>B</td></tr> <tr><td>2</td><td>AD</td><td></td><td>AHS</td><td>C</td></tr> <tr><td>2.0625</td><td>AE</td><td></td><td>Z</td><td>D</td></tr> <tr><td>2.125</td><td>AF</td><td></td><td>NZ</td><td>E</td></tr> <tr><td>2.25</td><td>AG</td><td></td><td>GK</td><td>F</td></tr> <tr><td>2.5</td><td>AH</td><td></td><td>KA</td><td>G</td></tr> <tr><td>2.5625</td><td>AJ</td><td></td><td>APR CLVIII</td><td>J</td></tr> <tr><td>2.625</td><td>AK</td><td></td><td>LK</td><td>K</td></tr> <tr><td>2.75</td><td>AL</td><td></td><td>FS CL4</td><td>L</td></tr> <tr><td>3</td><td>AM</td><td></td><td>AAJ</td><td>M</td></tr> <tr><td>3.125</td><td>AN</td><td></td><td>HV</td><td>N</td></tr> <tr><td>3.25</td><td>AP</td><td></td><td>TB</td><td>P</td></tr> <tr><td>3.375</td><td>AQ</td><td></td><td>MR3008D38</td><td>Q</td></tr> <tr><td>3.5</td><td>AR</td><td></td><td>MU3000C75</td><td>R</td></tr> <tr><td>3.75</td><td>AS</td><td></td><td>MU3000D38</td><td>S</td></tr> <tr><td>3.875</td><td>AT</td><td></td><td>MU3002D12</td><td>T</td></tr> <tr><td>4.25</td><td>AU</td><td></td><td>MU3002D75</td><td>V</td></tr> <tr><td>4.5</td><td>AV</td><td></td><td>MU3003E75</td><td>W</td></tr> <tr><td>4.75</td><td>AW</td><td></td><td>MU3007D00</td><td>X</td></tr> <tr><td>5</td><td>AX</td><td></td><td></td><td></td></tr> <tr><td>5.25</td><td>AY</td><td></td><td></td><td></td></tr> <tr><td>5.5</td><td>AZ</td><td></td><td></td><td></td></tr> <tr><td>5.75</td><td>BA</td><td></td><td></td><td></td></tr> <tr><td>6.5</td><td>BB</td><td></td><td></td><td></td></tr> <tr><td>7.75</td><td>BC</td><td></td><td></td><td></td></tr> </tbody> </table>				Diameter	Code	Sequence #	Material Spec	Code	1.5	AA	XXXXXXX	046024-		1.625	AB		FS CL1	A	1.75	AC		FS CL2	B	2	AD		AHS	C	2.0625	AE		Z	D	2.125	AF		NZ	E	2.25	AG		GK	F	2.5	AH		KA	G	2.5625	AJ		APR CLVIII	J	2.625	AK		LK	K	2.75	AL		FS CL4	L	3	AM		AAJ	M	3.125	AN		HV	N	3.25	AP		TB	P	3.375	AQ		MR3008D38	Q	3.5	AR		MU3000C75	R	3.75	AS		MU3000D38	S	3.875	AT		MU3002D12	T	4.25	AU		MU3002D75	V	4.5	AV		MU3003E75	W	4.75	AW		MU3007D00	X	5	AX				5.25	AY				5.5	AZ				5.75	BA				6.5	BB				7.75	BC		
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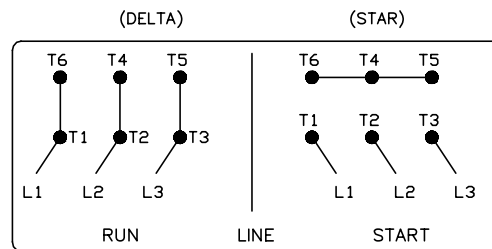
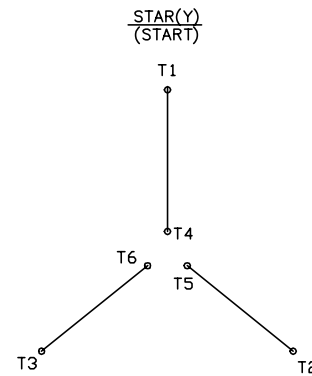
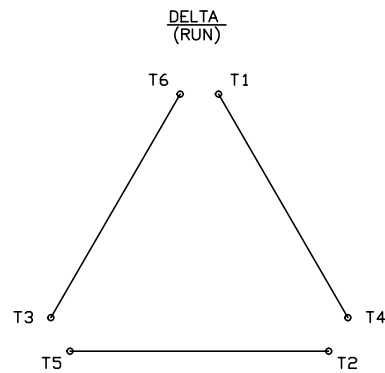
REV. DESC: NEW - LOAD TO BUS	TDR:1061922	BALDOR A MEMBER OF THE ABB GROUP	SHAFT-BLK
REV: -	REVISED: 2/22/2018 BY: RAGJSS1		
SHAFT BLANK PART NUMBER ASSIGNMENT			

416820-008

A-C MOTOR CONNECTION DIAGRAM

STANDARD 6 LEAD

Y START - DELTA RUN



< N. P. 1767-DC >

416820-008

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 00000847713
FILE: \RAG\00001\808	REVISED: 10: 41: 26 04/08/2014	BY: RAGJSS1
MTL: -		



CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1