

# **BALDOR**® • *RELIANCE*

## **Product Information Packet**

# **EM25254T-4**

**250HP, 1785RPM, 3PH, 60HZ, 447T, A44100M, DP, F**

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A44100M	Elec. Spec:	A44WG1484	CD Diagram:	416820-008
Enclosure:	DP	Mfg Plant:		Mech. Spec:		Layout:	604989-050
Frame:	447T	Mounting:	F1	Poles:	04	Created Date:	10-19-2010
Base:		Rotation:	R	Insulation:	F	Eff. Date:	09-26-2016
Leads:	6#1/0					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2377L									
CAT.NO.	EM25254T-4	SPEC NO.	P44G1775						
HP	250	AMPS	275	VOLTS	460	DESIGN	B		
FRAME	447T	RPM	1785	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	90BC03J30X	PHASE	3	DUTY	CONT	INSUL.CLASS	F		
OPP D.E. BEARING	90BC03J30X	TYPE	P	ENCL	DP	CODE	G		
SER.NO.		POWER FACTOR	88	NEMA-NOM-EFFICIENCY	96.2				
		MAX CORR KVAR	40.0	GUARANTEED EFFICIENCY	95.8				
		NEMA NOM/CSA QUOTED EFF							
		MOTOR WEIGHT	2036						

Parts List		
Part Number	Description	Quantity
SA207134	SA P44G1775	1.000 EA
RA194401	RA P44G1775	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 EA
000692000FF	N/P	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
NP2377L	SS SUPER-E CC CSA-C US CSA-EEV (LASER)	1.000 EA
421948044	LABEL, MYLAR	1.000 EA
004824015A	GREASE POLYREX EM	1.156 LB
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 EA
032018036DK	HHCS 1/2-13X4-1/2 PLTD.	3.000 EA
034000012AB	WSHR 1/4 STD. PLATED	4.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
089439051A	BRKT 440 089439051WCB	1.000 EA
089439051A	BRKT 440 089439051WCB	1.000 EA
410700004A	WSHR	1.000 EA
702611001A	BAFFL 440 SUB PAINT	1.000 EA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 EA
032018036DK	HHCS 1/2-13X4-1/2 PLTD.	3.000 EA
034000012AB	WSHR 1/4 STD. PLATED	4.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
032018008BK	HHCS 5/16-18X1L PLATED	4.000 EA
032018008DK	HHCS 1/2-13X1 PLATED	4.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
048897010DJ	BUSH - 445	1.000 EA
067053014A	GASK 440	1.000 EA
076870000B	+CBCST BLKT - 440	1.000 EA
076871000A	+CBOX CVR BLKT - 449	1.000 EA
406056007A	GASKET, 440	1.000 EA
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
415045002A	SLGR	1.000 EA
418151014G	RETAIN RING	1.000 EA
702611001A	BAFFL 440 SUB PAINT	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.375 GA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180054KA	KEY 7/8X7/8X6-3/4 L	1.000 EA
604797056	400-447 FRAME 60 X 42	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	447T	250	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
275	CONT	40/F	1.15	B	G	DP
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C (BETWEEN LINES)		
433743	418143047XE	---	---	.0174		

PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	EFFICIENCY	
NO LOAD	0	67.3	1800	4.09	0	
1/4	62.6	93.8	1796	65.8	94.9	
2/4	125	145	1792	83.6	96.5	
3/4	187	208	1788	87.5	96.6	
4/4	250	275	1784	88.2	96.3	
5/4	313	345	1780	88.4	95.9	

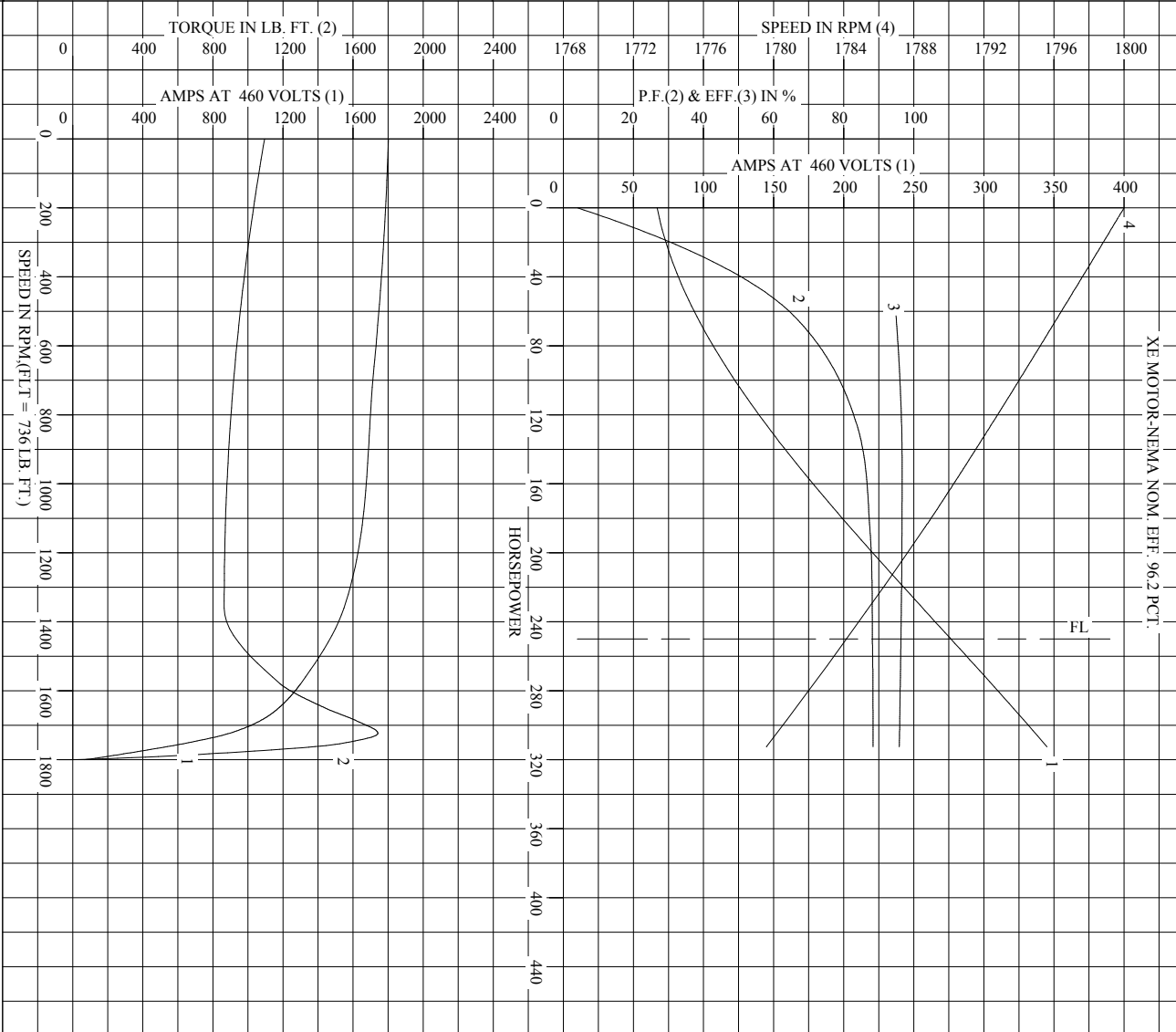
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	149	1095	1802		
PULL UP	1360	117	864	1548		
BREAKDOWN	1723	237	1742	895		
FULL LOAD	1784	100	736	275		

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

REMARKS: TYPICAL DATA  
XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

<b>BALDOR</b>	DR. BY	W. L. SMITH	<b>A-C MOTOR</b>	
	CK. BY	J. J. HARRISON		<b>PERFORMANCE DATA</b>
	APP. BY	J. P. TSAO		ISSUE DATE
	DATE	05/14/04	12/18/10	

REL. S. O. \_\_\_\_\_ RPM 1785 S. F. 1.15 ROTOR 418143047XE  
 FRAME 447T VOLTS 460 NEMA DESIGN B TEST S. O. TYPICAL DATA  
 HP 250 AMPS 275 CODE LETTER G  
 TYPE P DUTY CONT ENCLOSURE DP TEST DATE ---  
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 433743 STATOR RES. @ 25 °C .0174  
 OHMS (BETWEEN LINES)



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

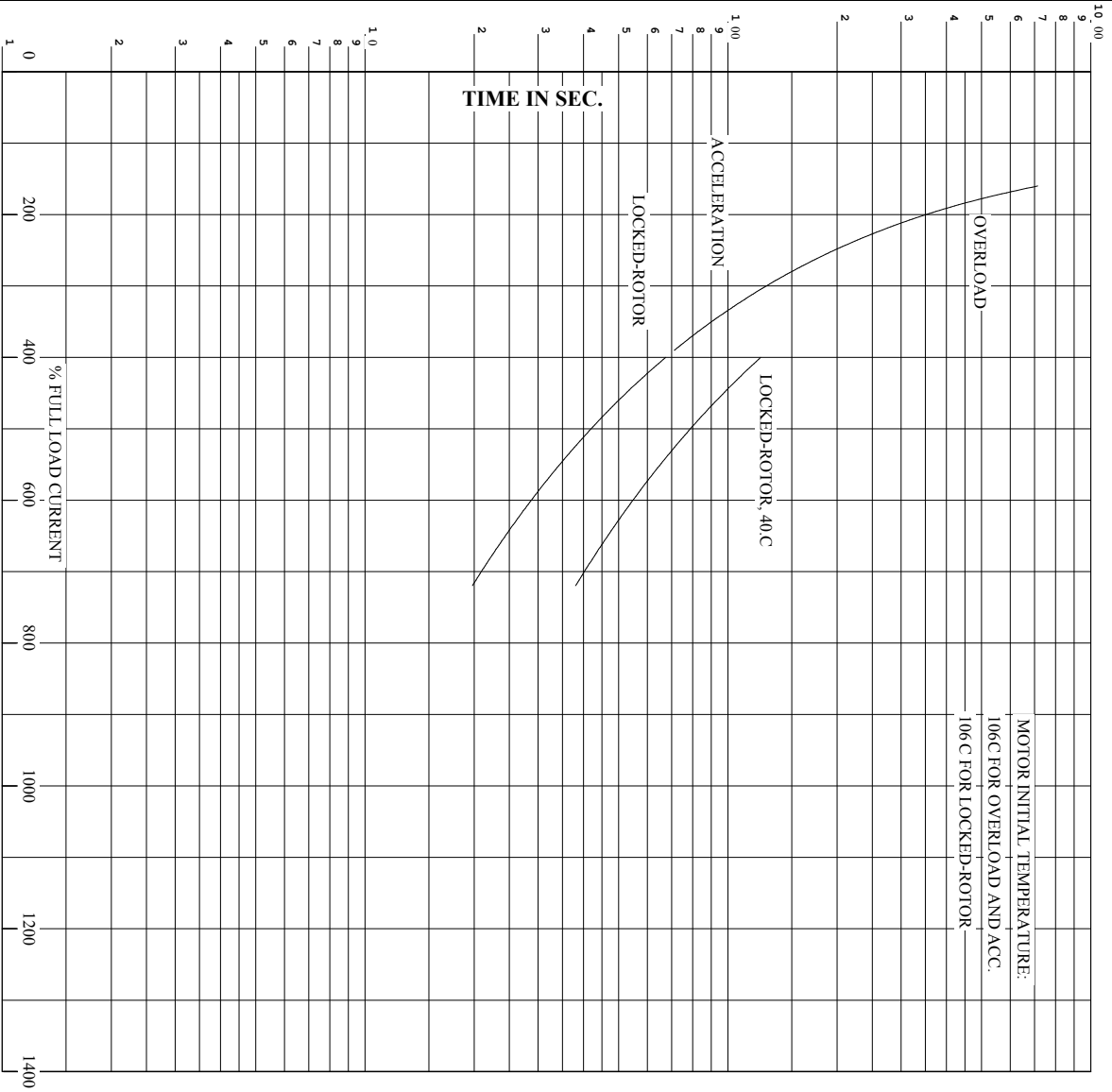
**BALDOR**

DR. BY W. L. SMITH  
 CK. BY J. HARRISON  
 APP. BY J. P. TSAO  
 DATE 05/14/04

**A-C MOTOR PERFORMANCE CURVES** A44WG1484-R001  
 ISSUE DATE 12/18/10

Printed on 12/18/10 5:58 @ psccs-motoreng

REL. S.O. . . . . RPM 1785 . . . . . S.F. 1.15 . . . . . ROTOR 418143047XE  
 FRAME 447T . . . . . VOLTS 460 . . . . . NEMA DESIGN B . . . . . TEST S.O. TYPICAL DATA  
 HP 250 . . . . . AMPS 275 . . . . . CODE LETTER G . . . . . TEST DATE ---  
 TYPE P . . . . . DUTY CONT . . . . . ENCLOSURE DP . . . . . STATOR RES. @ 25 C. 0.174  
 PHASE/HERTZ 3/60 . . . . . AMB C/INSUL 40/F . . . . . E/S 433743 . . . . . OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

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



DR. BY W. L. SMITH  
 CK. BY J. HARRISON  
 App. BY J. P. TSOO  
 DATE 05/14/01

**A-C MOTOR**  
**PERFORMANCE** A44WG1484-R001  
**CURVES** ISSUE DATE 12/18/10

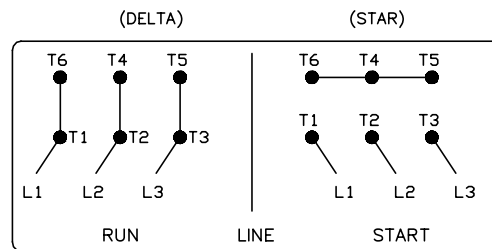
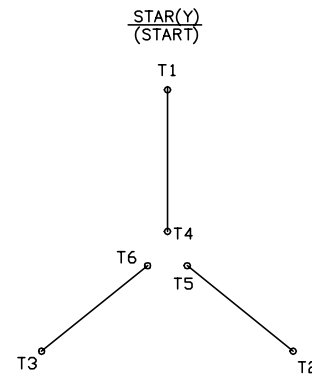
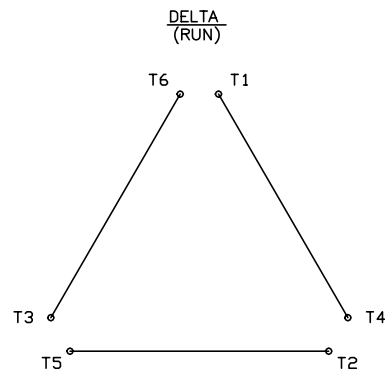


416820-008

# 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: 000000847713
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

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<http://www.baldor.com/support/Literature/Load.ashx/MN408?ManNumber=MN408>

Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>