

# **BALDOR**® • ***RELIANCE***

## **Product Information Packet**

# **CEM4400T**

**100HP,1780,3PH,60HZ,405TC,M400MAG,TEFC**

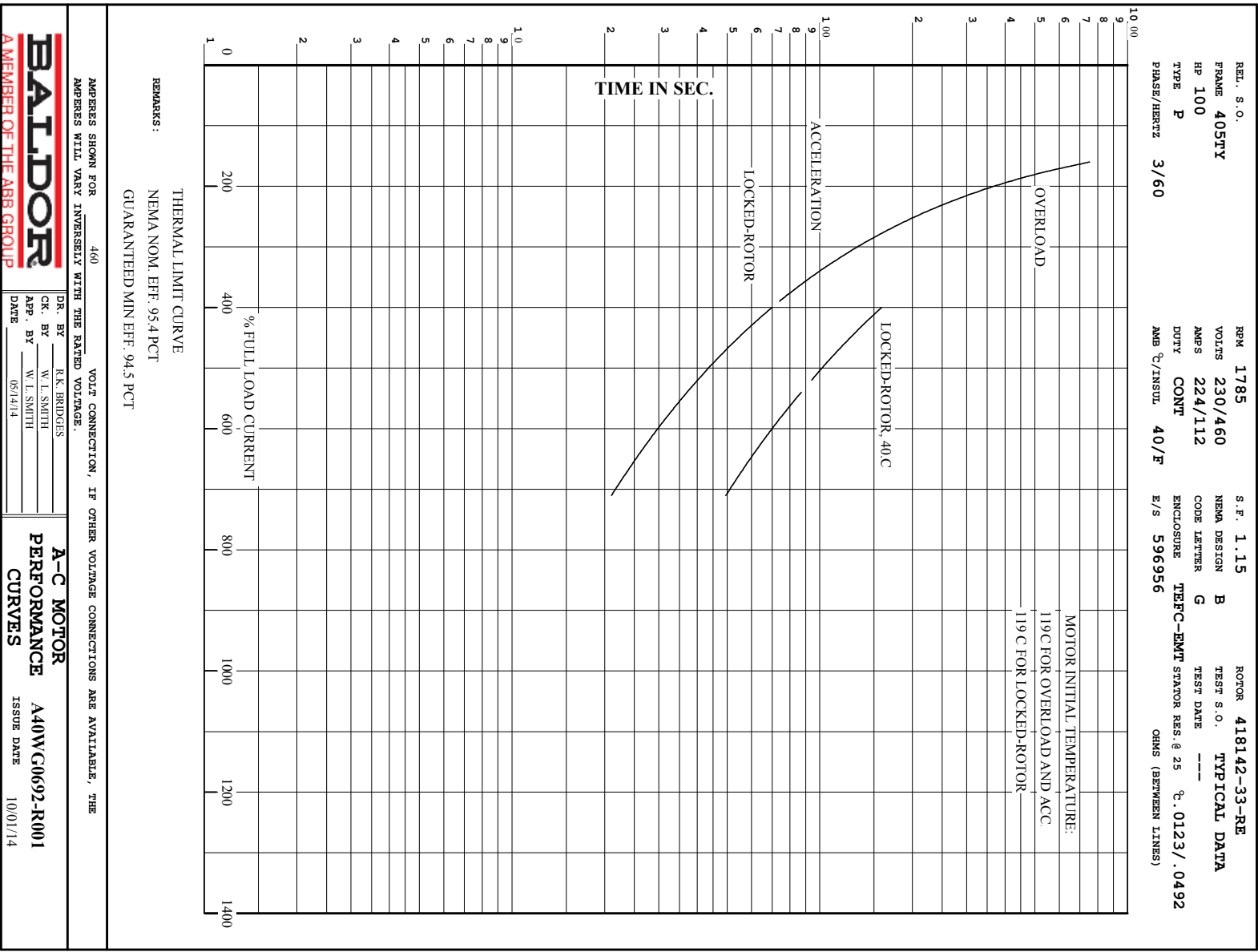
Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A40064M	Elec. Spec:	A40WG0692	CD Diagram:	416820-002
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	617428-027
Frame:	405TC	Mounting:	F1	Poles:	04	Created Date:	10-19-2010
Base:		Rotation:	R	Insulation:	B	Eff. Date:	09-26-2016
Leads:	3#2,6#4					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2383L										
CAT.NO.	CEM4400T			SPEC NO.	P40G0731					
HP	100	AMPS	224/112		VOLTS	230/460		DESIGN	B	
FRAME	405TC	RPM	1785	HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	80BC03J30X			PHASE	3	DUTY	CONT		INSUL.CLASS	F
OPP D.E. BEARING	80BC03J30X			TYPE	P	ENCL	TEFC	CODE	G	
SER.NO.				POWER FACTOR	87		NEMA-NOM-EFFICIENCY	95.4		
NEMA NOM/CSA QUOTED EFF				MAX CORR KVAR	18		GUARANTEED EFFICIENCY	95.0		
				MOTOR WEIGHT	1360					

Parts List		
Part Number	Description	Quantity
SA209180	SA P40G0731	1.000 EA
RA196442	RA P40G0731	1.000 EA
NP2383L	SUPER-E ,SS, CC, CSA-C US, CSA EEV	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
421948032	LABEL, MYLAR	1.000 EA
004824015A	GREASE POLYREX EM	0.884 LB
032018010CK	HHCS 3/8-16X1-1/4 PLTD.	4.000 EA
032018016EK	HHCS 5/8-11X2 PLATED	4.000 EA
032018030CK	HHCS 3/8-16X3-3/4 PLATED	3.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
034180008DA	KEY 1/4X1/4X1 L (shipping)	1.000 EA
034530060AB	P/NIP 1/8X7-1/2 GALV.	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
089412062A	BRKT 400 089416053WCD	1.000 EA
078548001R	FAN KB 234/150 (84) 400	1.000 EA
083198036A	FANCV BLKT 400	1.000 EA
089412051B	BRKT 400 089412051WCD	1.000 EA
410700000DA	WAVY SPRING WASHER	1.000 EA
415045002B	SLGR	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
418151057A	PLASTIC DRAIN,ODE BRKT	1.000 EA
032018010CK	HHCS 3/8-16X1-1/4 PLTD.	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
032018016EK	HHCS 5/8-11X2 PLATED	4.000 EA
032018032CK	HHCS 3/8-16X4 PLATED	3.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
415045002B	SLGR	1.000 EA
418151057A	PLASTIC DRAIN,ODE BRKT	1.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
065776000C	TERBD 320-400	1.000 EA
067053000B	GASK 320-400	1.000 EA
076708000BB	C/B - 360	1.000 EA
076709000A	C/B - 360	1.000 EA
406099000A	PLUG - FAN COVER 320-440	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
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.250 GA
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 EA
034180044JA	KEY 3/4X3/4X5-1/2 L	1.000 EA
604797045	STD. 400 FRAME SKID	1.000 EA
N424003609DBA	LEAD SET 2-1/4-1 AWG 6-DB 400 FR 60 IN	1.000 EA

000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 EA
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DR. BY R.K. BRIDGES  
 CK. BY W.L. SMITH  
 APP. BY W.L. SMITH  
 DATE 05/14/14

**A-C MOTOR**  
**PERFORMANCE**  
**CURVES**

A40W/C0692-R001  
 ISSUE DATE 10/01/14

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	405TY	100	P	3/60	1785	230/460
AMPS	DUTY	AMB °C/INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
224/112	CONT	40/F	1.15	B	G	TEFC-EMT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
596956	418142-33-RE	---	---	.0123/.0492		

PERFORMANCE

LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %
NO LOAD	0	28.6	1800	5.49	0
1/4	25.0	39.2	1796	64.3	93.0
2/4	50.0	59.5	1792	82.5	95.4
3/4	75.0	84.6	1788	86.7	95.7
4/4	100	112	1783	87.4	95.4
5/4	125	141	1778	87.3	94.9

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	151	445	725
PULL UP	360	136	400	706
BREAKDOWN	1721	250	735	382
FULL LOAD	1783	100	295	112

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

REMARKS: TYPICAL DATA  
NEMA NOM. EFF. 95.4 PCT  
GUARANTEED MIN EFF. 94.5 PCT

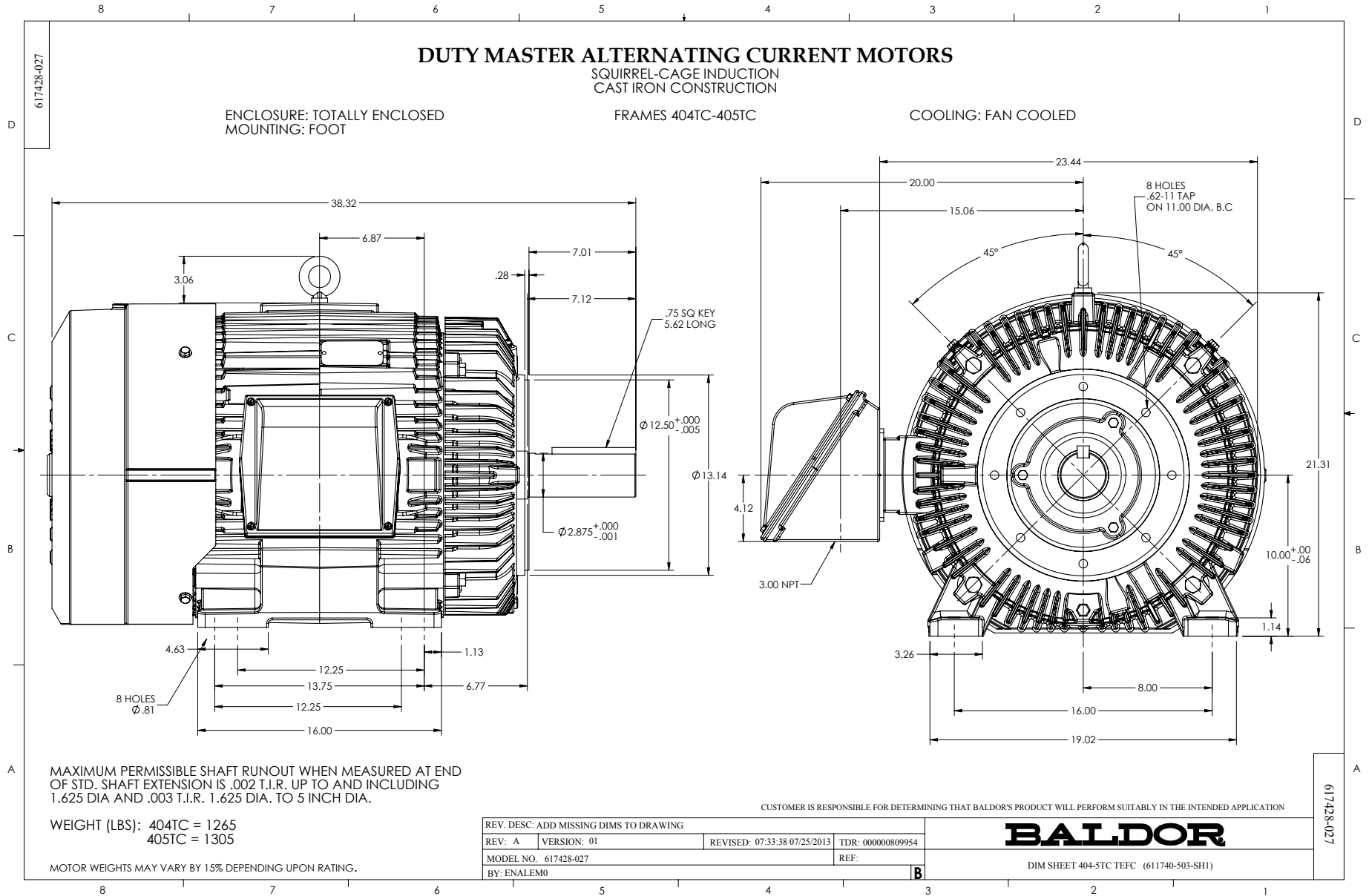


DR. BY R.K. BRIDGES  
CR. BY W.L. SMITH  
APP. BY W.L. SMITH  
DATE 05/14/14

A-C MOTOR PERFORMANCE DATA  
A40WG0692-R001  
ISSUE DATE 10/01/14

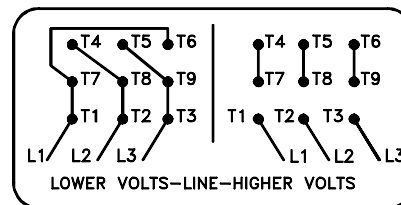
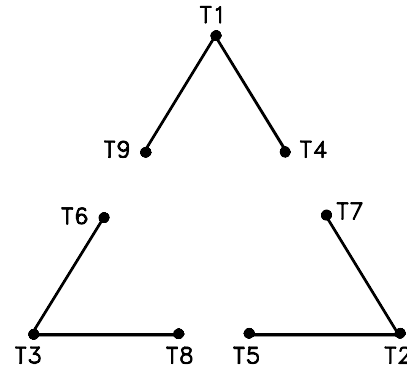
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416820-002

A-C MOTOR  
 CONNECTION DIAGRAM  
 STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

416820-002

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\661	REVISED: 10: 47: 51 04/30/2010	
MTL: -	BY: RAGRA	

**BALDOR**

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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