

BALDOR® • RELIANCE 

Product Information Packet

CEM4400TS

100HP, 1785RPM, 3PH, 60HZ, 405TSC, TEFC, F1

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	A40WG0692	CD Diagram:	416820-002	Mfg Plant:	
Mech. Spec:		Layout:	611740-003-SH1	Poles:	04	Created Date:	08-08-2014
Base:		Eff. Date:	05-26-2017	Leads:	3#2,6#4		

Specs			
Catalog Number:	CEM4400TS	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	405TSC	Inverter Code:	Inverter Ready
Frame Material:	Iron	IP Rating:	NONE
Output @ Frequency:	100.000 HP @ 60 HZ	KVA Code:	G
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 2 AWG
	460.0 V @ 60 HZ	Motor Type:	A40064M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	87
Agency Approvals:	CCSA US	Product Family:	General Industrial
	CSA EEV	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Shaft Ground Indicator:	No Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible
Current @ Voltage:	112.000 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
	224.000 A @ 230.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA

Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None

Nameplate NP2496L

MOBIL POLYREX EM

Nameplate NP2383L										
CAT.NO.	CEM4400TS			SPEC NO.	A40-6214-0692					
HP	100	AMPS	224/112		VOLTS	230/460		DESIGN	B	
FRAME	405TSC	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	94.5		
				MOTOR WEIGHT						

Parts List		
Part Number	Description	Quantity
SA285085	SA A40-6214-0692	1.000 EA
RA271342	RA A40-6214-0692	1.000 EA
421948032	LABEL, MYLAR	1.000 EA
NP2496L	MOTOR LUBE NAMEPLATE	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
NP2383L	SUPER-E ,SS, CC, CSA-C US, CSA EEV	1.000 EA
089412051B	BRKT 400 089412051WCD	1.000 EA
415072001B	CLAMP	1.000 EA
083198036A	FANCV BLKT 400	1.000 EA
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 EA
078548001R	FAN KB 234/150 (84) 400	1.000 EA
004824015A	GREASE POLYREX EM	0.880 LB
032018016EK	HHCS 5/8-11X2 PLATED	4.000 EA
032018010CK	HHCS 3/8-16X1-1/4 PLTD.	4.000 EA
032018030CK	HHCS 3/8-16X3-3/4 PLATED	3.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
410700000DA	WAVY SPRING WASHER	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
034530060AB	P/NIP 1/8X7-1/2 GALV.	1.000 EA
034690001AB	1/8" NPT SQHDPLG	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
034690001AB	1/8" NPT SQHDPLG	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
089412062A	BRKT 400 089416053WCD	1.000 EA
032018016EK	HHCS 5/8-11X2 PLATED	4.000 EA
032018032CK	HHCS 3/8-16X4 PLATED	3.000 EA
077176000L	C/BOX, 360-400	1.000 EA
077176001A	CBOXC, PAINTED 360-400	1.000 EA
043292000AJ	GASK 320-400	1.000 EA
402731001A	GASK 360-440	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	1.000 GA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
048977006C	GRFTG - XP	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180022GA	KEY 1/2X1/2X2-3/4 L	1.000 EA
604797045	STD. 400 FRAME SKID	1.000 EA
032510024D	CARRIAGE BOLT - 444	2.000 EA

Product Information Packet: CEM4400TS - 100HP,1785RPM,3PH,60HZ,405TSC,TEFC,F1

034001014AB	FLAT WASHER 3/8"PLATED	2.000 EA
034001016AB	WSHR .562ID 1.375OD .109	2.000 EA
033300014AC	HEX NUT, SHIPPING - 400	2.000 EA
604799003C	SHIPPING BAG -Replaced by 604799003C	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405TZ	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
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

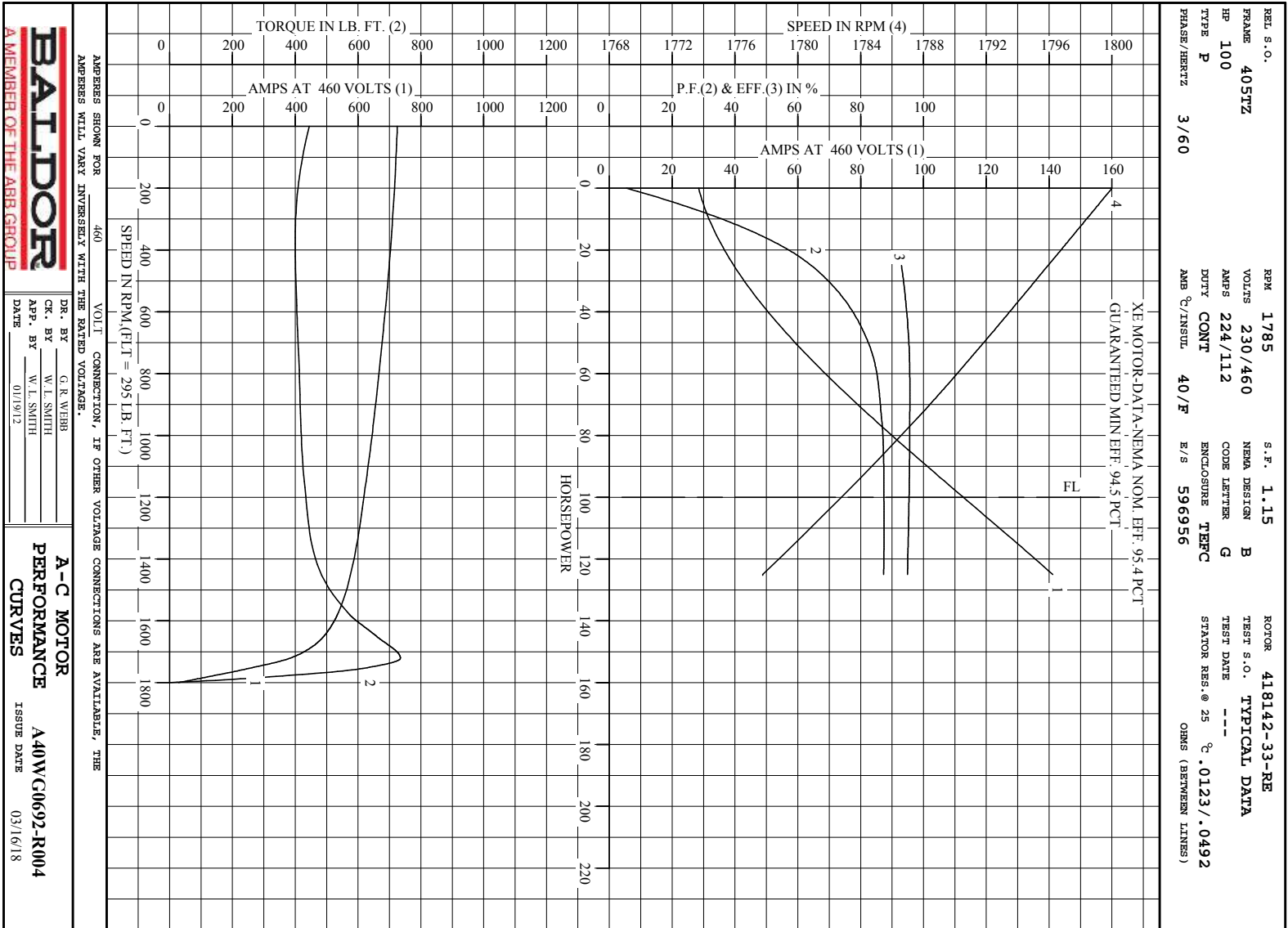
SPEED TORQUE

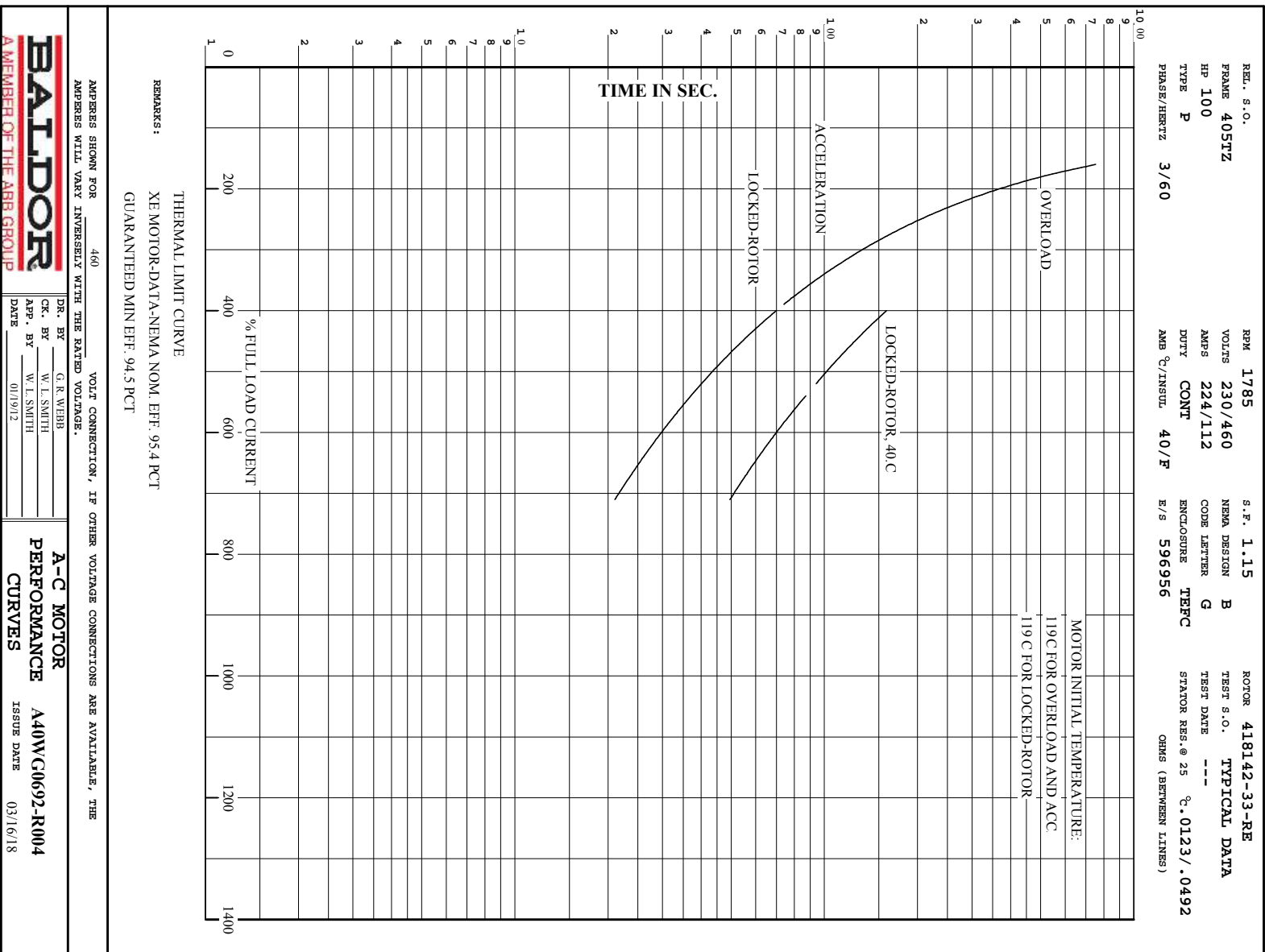
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	151	445	725
PULL UP	360	136	400	706
BREAKDOWN	1721	250	735	382
FULL LOAD	1783	100	295	112

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

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

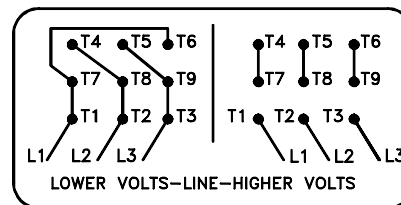
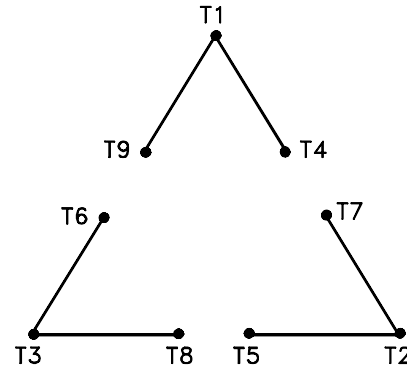
 <p>A MEMBER OF THE ABB GROUP</p>	DR. BY	G. R. WEBB	<p>A-C MOTOR PERFORMANCE DATA</p> <p>ISSUE DATE 03/16/18</p>
	CHK. BY	M. L. SMITH	
	APP. BY	W. L. SMITH	
	DATE	01/19/12	





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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