



Customer information packet

CEM4400T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	405TC
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	112.000 A @ 460.0 V 224.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	112.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA

Part detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0692
Layout	617429-739
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	04
Leads	3#2,6#4
Proprietary	False
Created date	03-27-2017

Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	38.19 IN
Power Factor	87
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

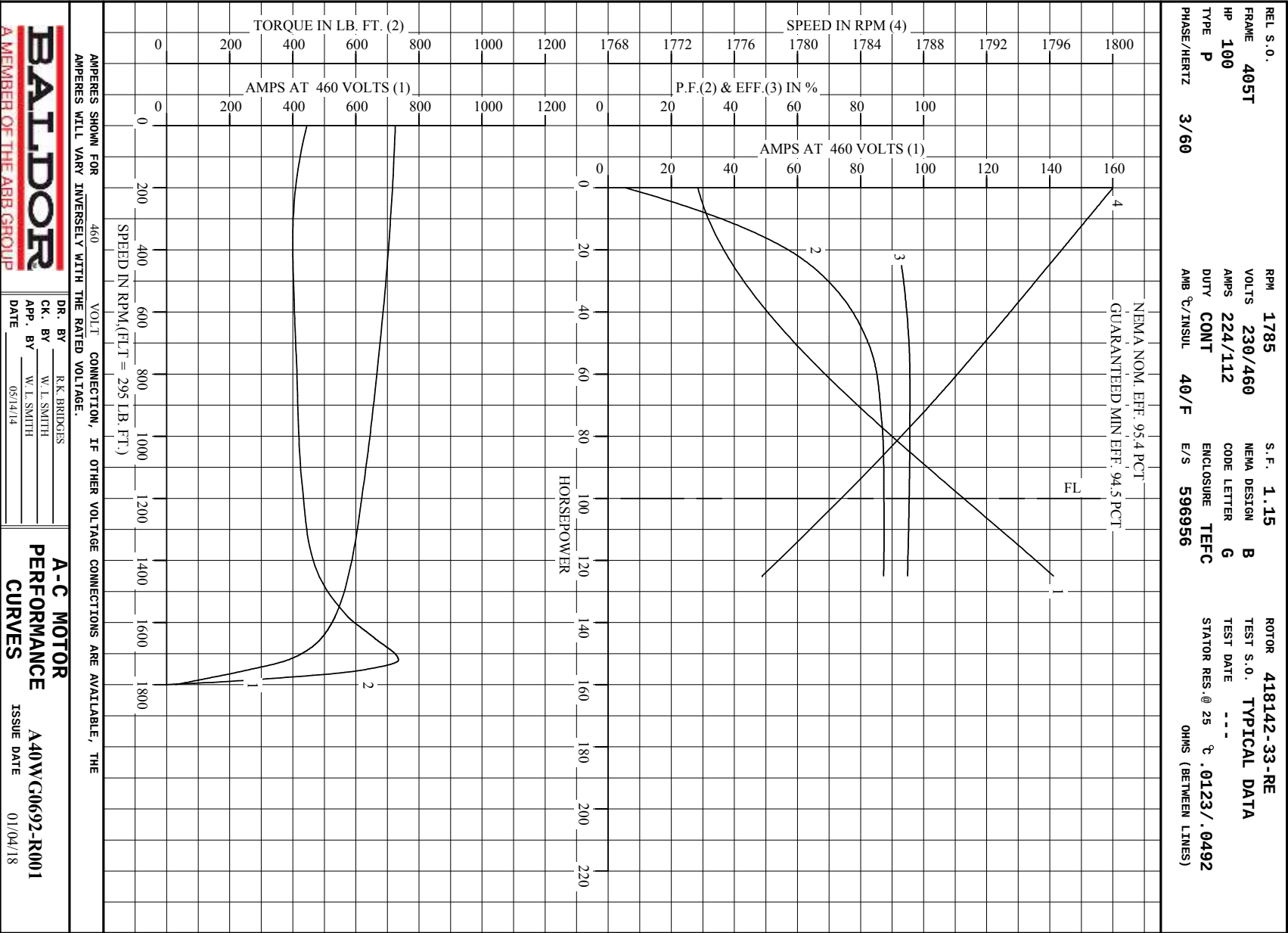
Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2349L

SPEC NO.	A40-7234-0692			CAT.NO.	CEM4400T					FRAME	405TC		
HP	100	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P			
RPM	1785	AMPS	224/112		HZ	60	AMB	40	SF	1.15			
DRIVE END BEARING	80BC03J30X		DUTY	CONT	INSUL.CLASS			F					
OPP D.E. BEARING	80BC03J30X		ENCL	TEFC	CODE	G							
SER.NO.				POWER FACTOR	87	NEMA-NOM-EFFICIENCY					95.4		
						MAX CORR KVAR	18	GUARANTEED EFFICIENCY				94.5	
						NEMA NOM/CSA QUOTED EFF							
						MOTOR WEIGHT							

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	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 NEMA NOM. EFF. 95.4 PCT GUARANTEED MIN EFF. 94.5 PCT						
BALDOR A MEMBER OF THE ABB GROUP				DR. BY _____ R. K. BRIDGES CK. BY _____ W. L. SMITH APP. BY _____ W. L. SMITH DATE 05/14/14		
				A-C MOTOR PERFORMANCE DATA A40WG0692-R001 ISSUE DATE 01/04/18		



REL. S.O.
FRAME 405T
HP 100
TYPE P
PHASE/HERTZ 3/60

RPM 1785
VOLTS 230/460
AMPS 224/112
DUTY CONT
AMB °C/INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 596956

ROTOR 418142-33-RE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25 °.0123/.0492
OHMS (BETWEEN LINES)

10.00
9
8
7
6
5
4
3
2
1

1.00
9
8
7
6
5
4
3
2
1
0

TIME IN SEC.

ACCELERATION
LOCKED-ROTOR, 40 C
LOCKED-ROTOR
OVERLOAD
MOTOR INITIAL TEMPERATURE:
119C FOR OVERLOAD AND ACC
119 C FOR LOCKED-ROTOR

1
0
200
400
600
800
1000
1200
1400

% FULL LOAD CURRENT

THERMAL LIMIT CURVE
REMARKS:
NEMA NOM. EFF. 95.4 PCT
GUARANTEED MIN EFF. 94.5 PCT

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

BALDOR

A MEMBER OF THE ABB GROUP

DR. BY R.K. BRIDGES
CK. BY W.L. SMITH
App. BY W.L. SMITH
DATE 05/14/14

A-C MOTOR

PERFORMANCE

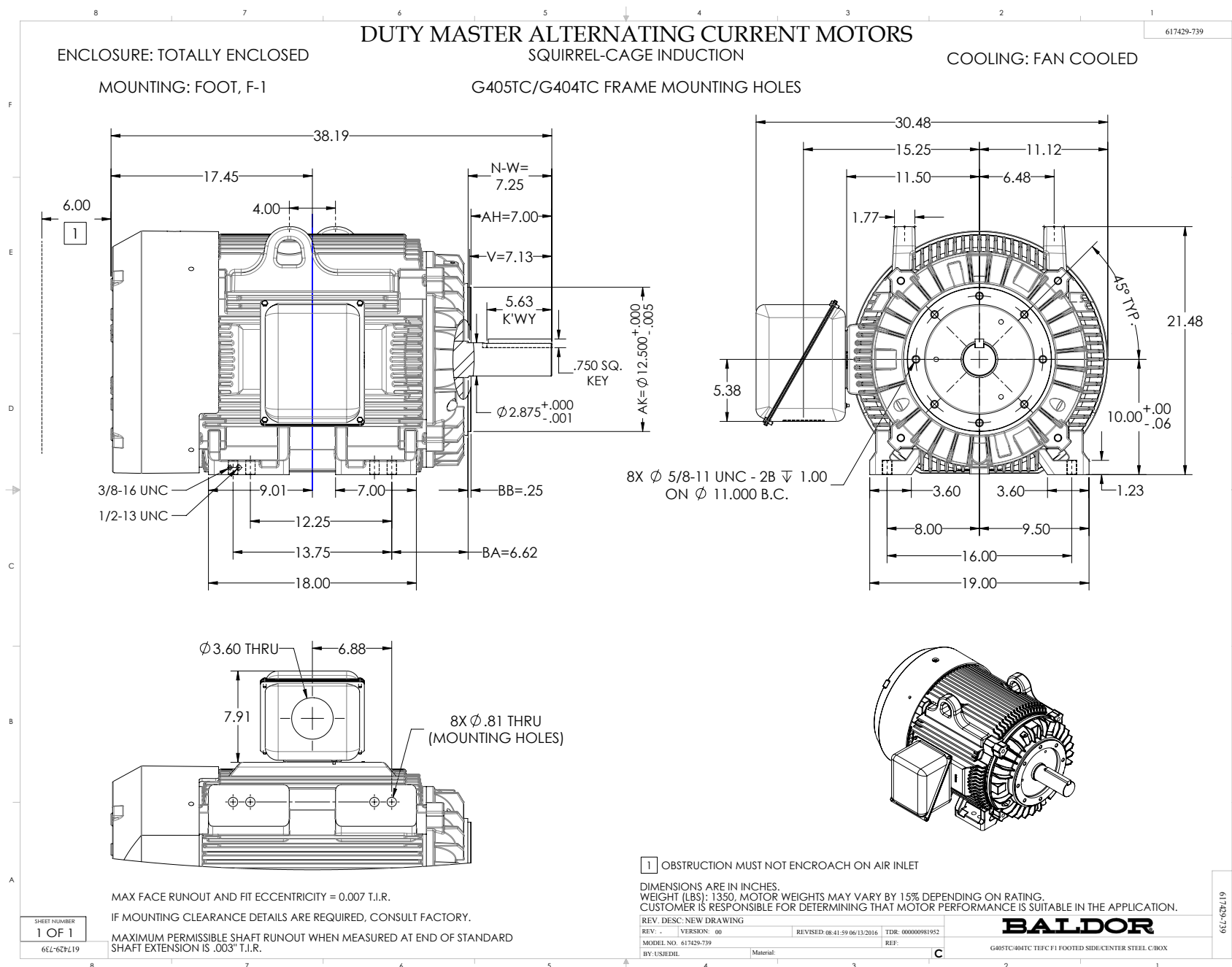
CURVES

A40WG0692-R001

ISSUE DATE 01/04/18

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

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