



Customer information packet

CECP4400T-4

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

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	405TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	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)
Constant Torque Speed Range	10-60
Current @ Voltage	112.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2D
Heater Indicator	No Heater
High Voltage Full Load Amps	112.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA

Part detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0664
Layout	617429-503
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#2
Proprietary	False
Created date	02-06-2014

Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	38.20 IN
Power Factor	87
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	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

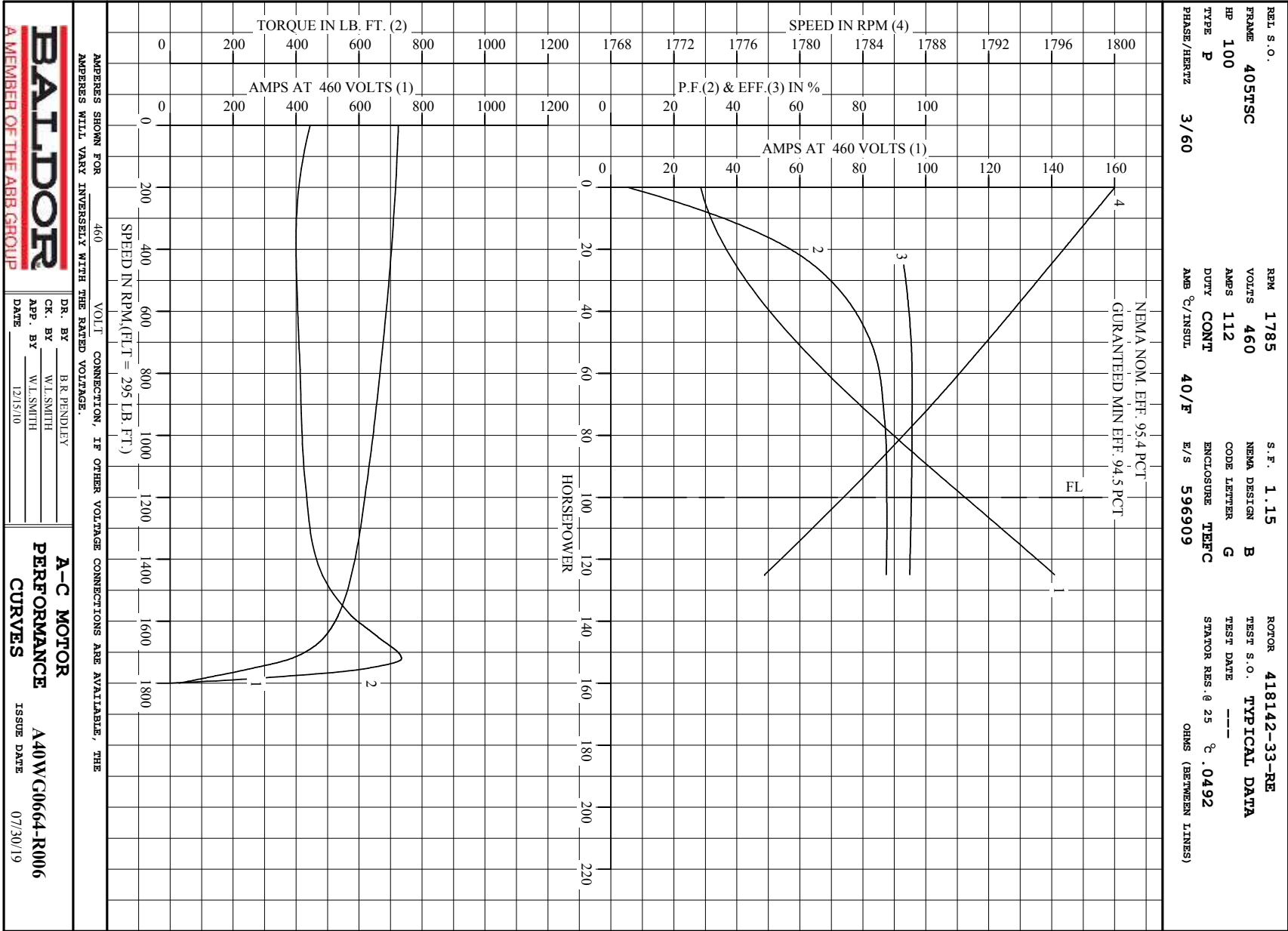
Nameplate

NP2496L	
EXXON POLYREX EM	

NP3238

CAT NO	CECP4400T-4			SPEC NO.		A40-4928-0664							
HP	100	AMPS	112		VOLTS		460		DESIGN	B			
FRAME	405TC	RPM	1785	HZ	60	AMB	40	SF	1.15				
D.E. BRG.DATA	6316		O.D.E. BRG.DATA			6316		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	80BC03J30X			TYPE		P	ENCL	TEFC	CODE	G			
O.D.E. BRG.	80BC03J30X			POWER FACTOR			87		NEMA NOM EFFICIENCY			95.4	
3/4 LOAD EFF.	95.7		MAX CORR KVAR			18.0		GUARANTEED EFFICIENCY			94.5		
TEMP CODE	T2D	TEMP =		215									
CHP HZ	60-90	CT HZ	10-60		VT HZ		0-60						
INVERTER-TEMP-CODE	T2D												
SER.NO.				MOTOR WEIGHT									

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405TSC	100	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
112	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR		TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)	
596909	418142-33-RE		---	---	.0492	
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER % FACTOR	EFFICIENCY %	
NO LOAD	0	28.7	1800	5.48	0	
1/4	25.0	39.2	1796	64.3	93.0	
2/4	50.0	59.4	1792	82.6	95.4	
3/4	75.0	84.4	1788	86.9	95.7	
4/4	100	112	1783	87.6	95.4	
5/4	125	141	1778	87.4	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 GURANTEED MIN EFF. 94.5 PCT						
BALDOR				A-C MOTOR PERFORMANCE DATA		
DR. BY _____ CR. BY _____ APP. BY _____ DATE 12/15/10				W. I. SMITH W. I. SMITH A40WG0664-R006 ISSUE DATE 07/30/19		
A MEMBER OF THE ABB GROUP						



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REL. S. O.		RPM 1785	S. F. 1.15	ROTOR 418142-33-RE	
FRAME 405TSC		VOLTS 460	NEMA DESIGN B	TEST S. O. TYPICAL DATA	
HP 100		AMPS 112	CODE LETTER G	TEST DATE ---	
TYPE P		DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C. 0.0492	
PHASE/HERTZ 3/60		AMB °C/INSUL 40/F	E/S 596909	OHMS (BETWEEN LINES)	

1.00
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

1
2
3
4
5
6
7
8
9
10

1000
800
600
400
200
0

TIME IN SEC.

1400
1200
1000
800
600
400
200
0

% FULL LOAD CURRENT

OVERLOAD

LOCKED-ROTOR, 40 C

LOCKED-ROTOR

ACCELERATION

MOTOR INITIAL TEMPERATURE:
119C FOR OVERLOAD AND ACC.
119 C FOR LOCKED-ROTOR

AMPERES SHOWN FOR 460

VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE

AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

DR. BY BR. PENDLEY

CR. BY W.L. SMITH

APP. BY W.L. SMITH

DATE 12/15/00

A-C MOTOR

PERFORMANCE

CURVES

A40WG0664-R006

ISSUE DATE 07/30/19

REMARKS:

NEMA NOM. EFF. 95.4 PCT

GURANTEED MIN EFF. 94.5 PCT

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

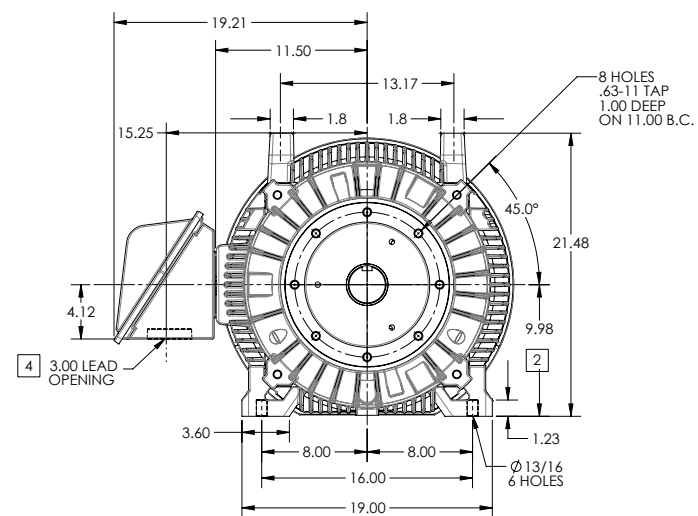
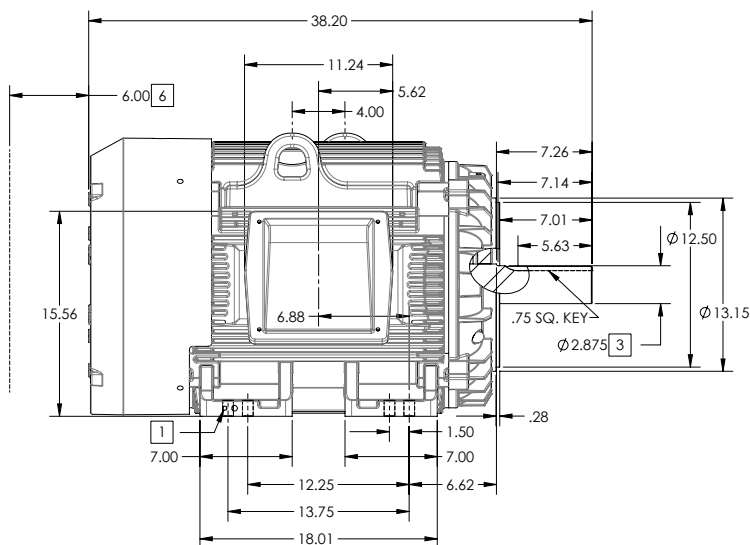
FRAME G405TC ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404TC FRAME MOUNTING HOLES

XT/ECP SEVERE DUTY ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00, -.06
3. VARIES +.000, -.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND
5. CORROSION PROOF MOTOR THIS IS PIPE TAP.
6. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
7. OBSTRUCTION MUST NOT ENCRATCH ON AIR INLET
8. MAX FACE RUNOUT AND FIT ECCENTRICITY = 0.007 T.I.R.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

5 WEIGHT (LBS): 1370

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: CHANGE BA FROM 6.76 TO 6.62			
REV: B	VERSION: 02	REVISED: 01:18:01 04/14/2014	TDR: 000000848770
MODEL NO. 617429-503			REF:
BY: MGHJMZ2		Material:	

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G405TC/404TC STD – FOOTED – XT/ECP SEVERE DUTY ENCLOSURE

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

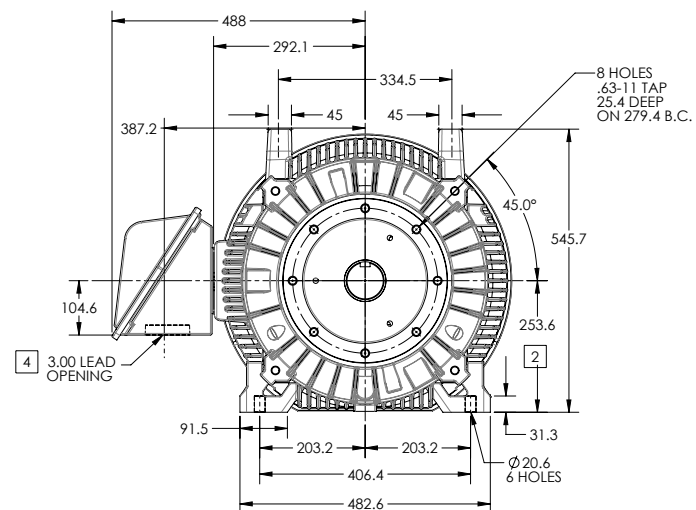
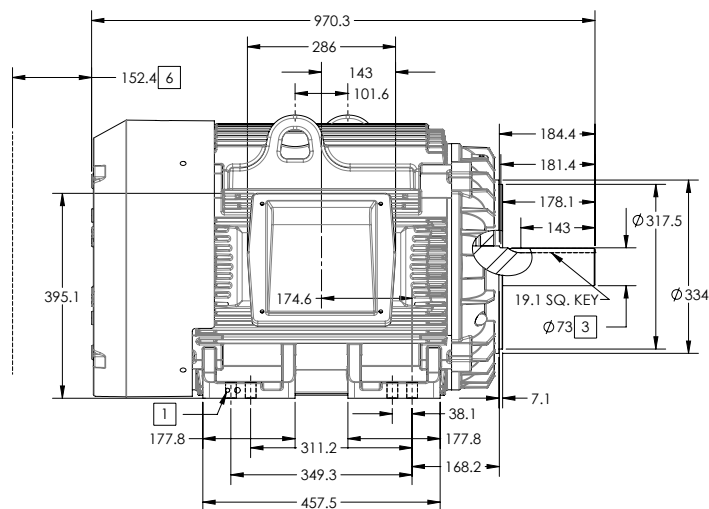
FRAME G405TC ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404TC FRAME MOUNTING HOLES

XT/ECP SEVERE DUTY ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +0.0-1.5
3. VARIES +.00-.03
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND
5. CORROSION PROOF MOTOR THIS IS PIPE TAP.
6. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
7. OBSTRUCTION MUST NOT ENCRATCH ON AIR INLET
8. MAX FACE RUNOUT AND FIT ECCENTRICITY = 0.178 T.I.R.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

5 WEIGHT (KGS): 630

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: CHANGE BA FROM 6.76 TO 6.62			
REV: B	VERSION: 02	REVISED: 01:18:01 04/14/2014	TDR: 000000848770
MODEL NO. 617429-503			REF:
BY: MGHJM22		Material:	

BALDOR®

G405TC/404TC STD – FOOTED – XT/ECP SEVERE DUTY ENCLOSURE

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682	REVISED: 11: 54: 06 04/30/2010	
MTL: -	BY: RAGRA	

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CONN DIAG - STANDARD 3 LEAD
SH 1 of 1