

ABB BALDOR RELIANCE III

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	CLI 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						
		DR. BY	B.R. PENDLEY	A-C MOTOR PERFORMANCE A40WG0664-R006 DATA ISSUE DATE 07/30/19 Page 6 of 11		
		CK. BY	W.L. SMITH			
		APP. BY	W.L. SMITH			
		DATE	12/15/10			

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**

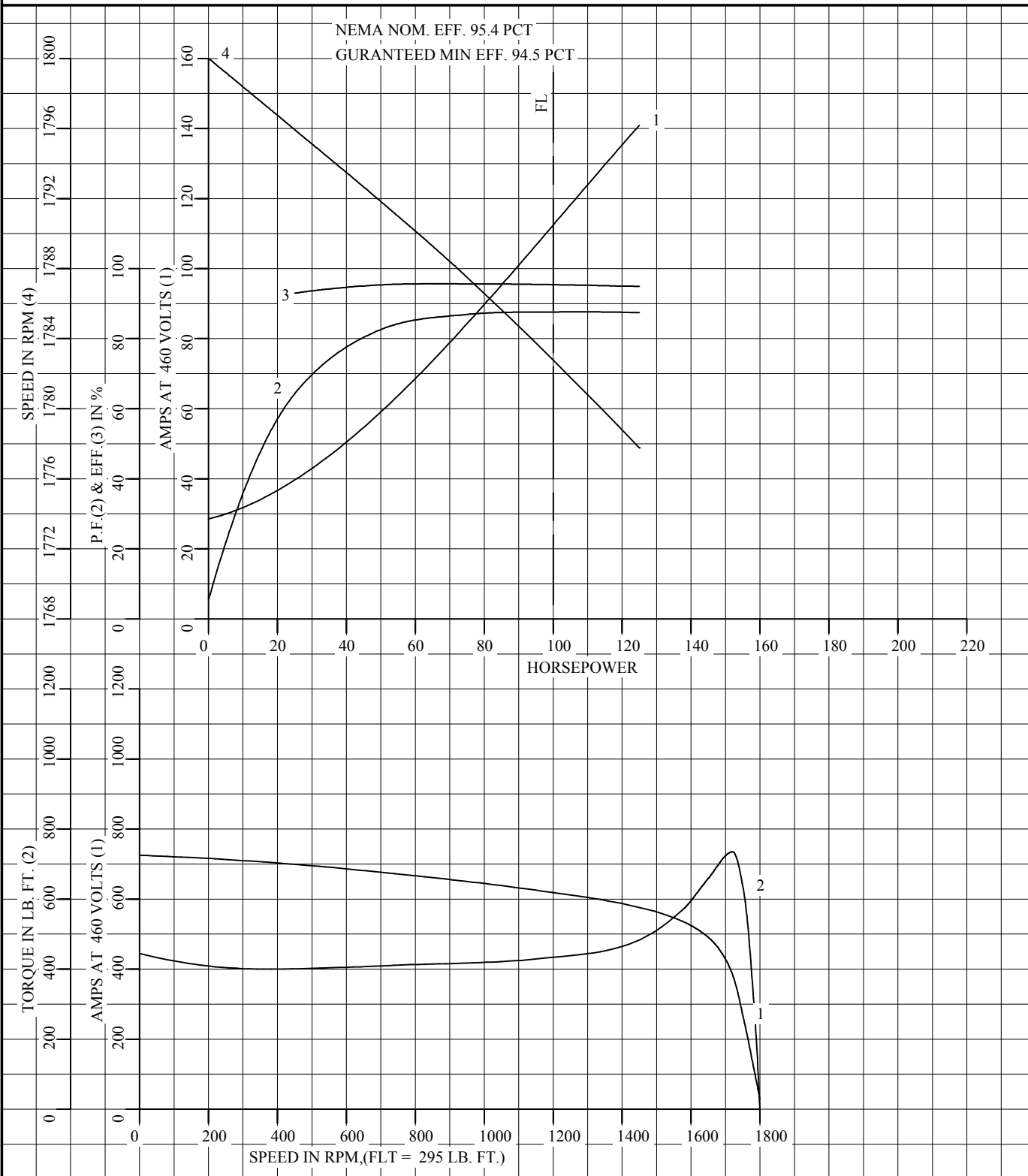
 STATOR RES. @ 25 °C **.0492**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **596909**

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
A MEMBER OF THE ABB GROUP

DR. BY B.R. PENDLEY
CK. BY W.L. SMITH
APP. BY W.L. SMITH
DATE 12/15/10

**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0664-R006

ISSUE DATE 07/30/19

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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**

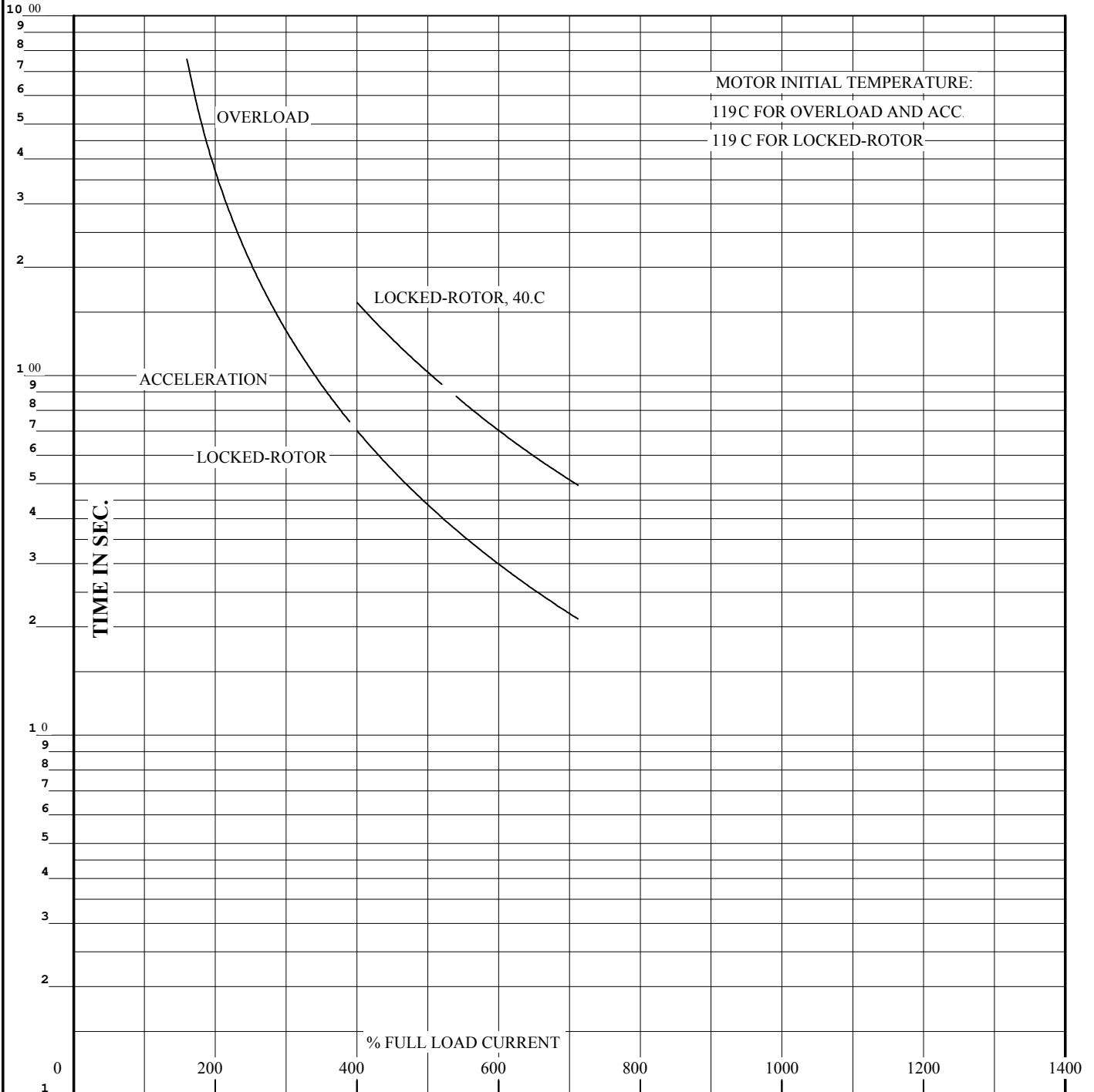
STATOR RES. @ 25 °C **.0492**

PHASE/HERTZ **3/60**

AMB °C/INSUL **40/F**

E/S **596909**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

NEMA NOM. EFF. 95.4 PCT

GURANTEED MIN EFF. 94.5 PCT

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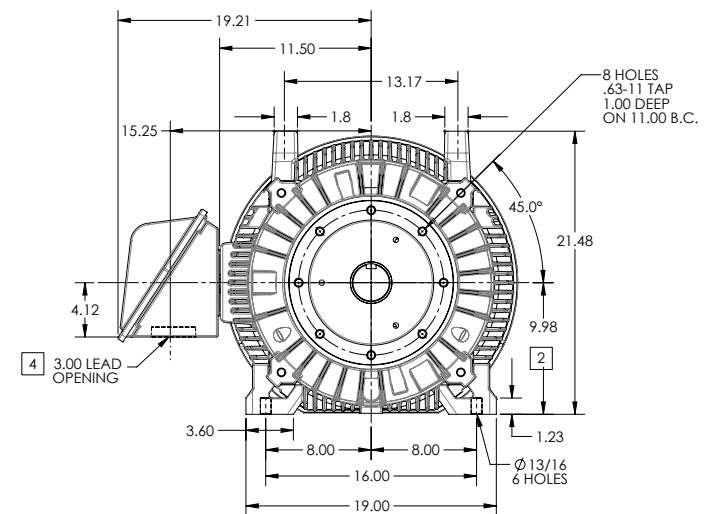
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A40WG0664-R006

ISSUE DATE 07/30/19 Page 8 of 11

SQUIRREL-CAGE INDUCTION

XT/ECP SEVERE DUTY ENCLOSURE



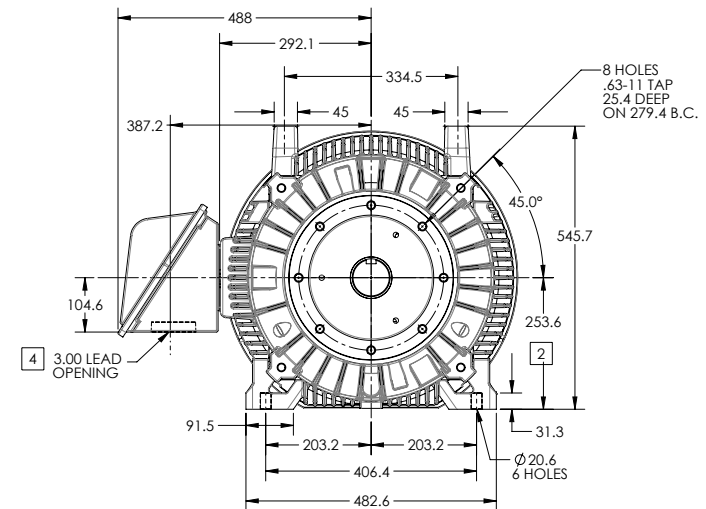
- 5 WEIGHT (LBS): 1370

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

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

SQUIRREL-CAGE INDUCTION

XT/ECP SEVERE DUTY ENCLOSURE



- 5 WEIGHT (KGS): 630

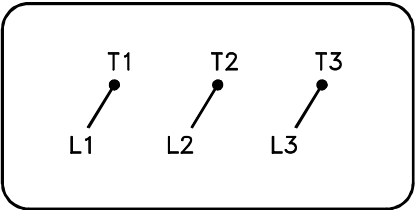
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BALDOR®

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

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1