

ABB BALDOR RELIANCE III

Customer information packet

EM4400T-12

100HP, 1785RPM, 3PH, 60HZ, 405T, A40064M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	405T
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
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
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
High Voltage Full Load Amps	112.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 4 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0690
Layout	617429-001
Eff. date	09-04-2024
CD Diagram	416820-020
Poles	04
Leads	12#4
Proprietary	False
Created date	07-17-2013

Overall Length	38.19 IN
Power Factor	87
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run

Nameplate

NP2349L																
SPEC NO.	P40G3925			CAT.NO.		EM4400T-12					FRAME	405T				
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							

Accessories

Part number	Description	Multiplier
K40G2	C-FACE KIT FR400T 4/6/8POLE ONLY	A8
089412054B	D-FLANGE BRKT 400 089416055WCB	P1

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	FCXE
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
496453	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. 95.0 PCT						
		DR. BY <u>R.L. STEPHENS</u> CK. BY <u>K.W. KANOUFF</u> APP. BY <u>K.W. KANOUFF</u> DATE <u>06/07/96</u>				
		A-C MOTOR PERFORMANCE DATA				
		A40WG0690-R001 ISSUE DATE 06/07/96				

FRAME 405T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 100

AMPS 224/112

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE FCXE

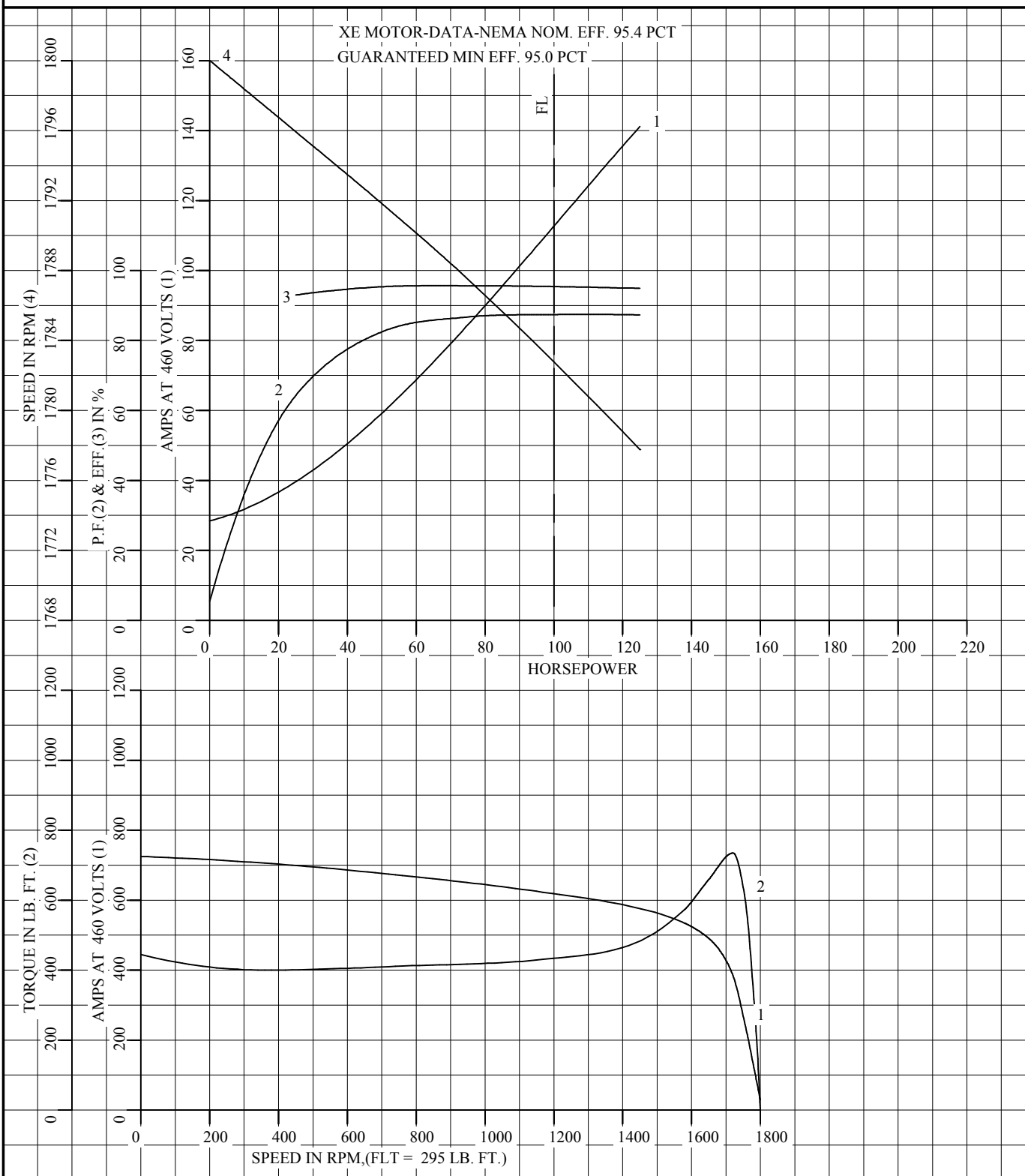
STATOR RES. @ 25 °C .0123/.0492

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 496453

OHMS (BETWEEN LINES)

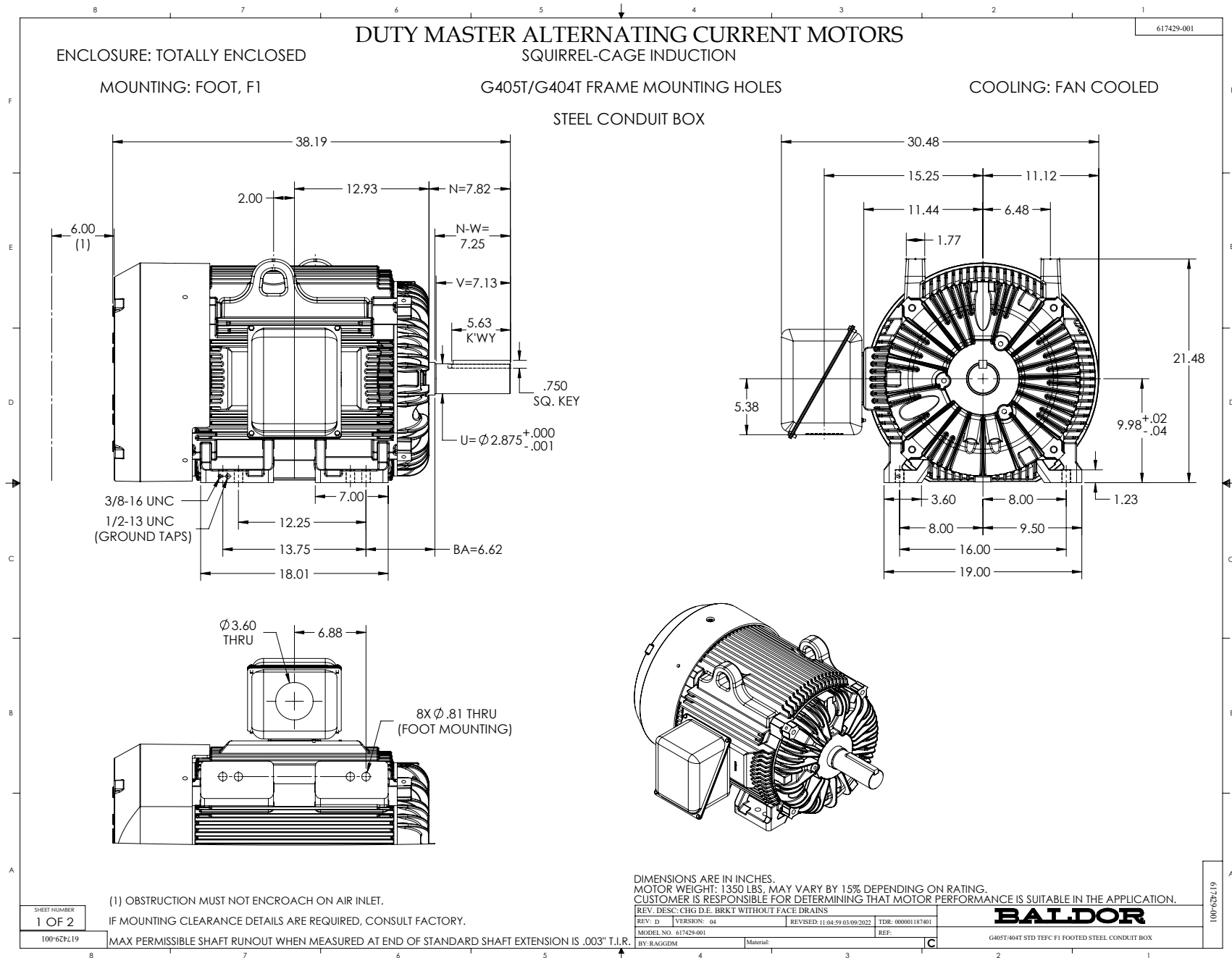


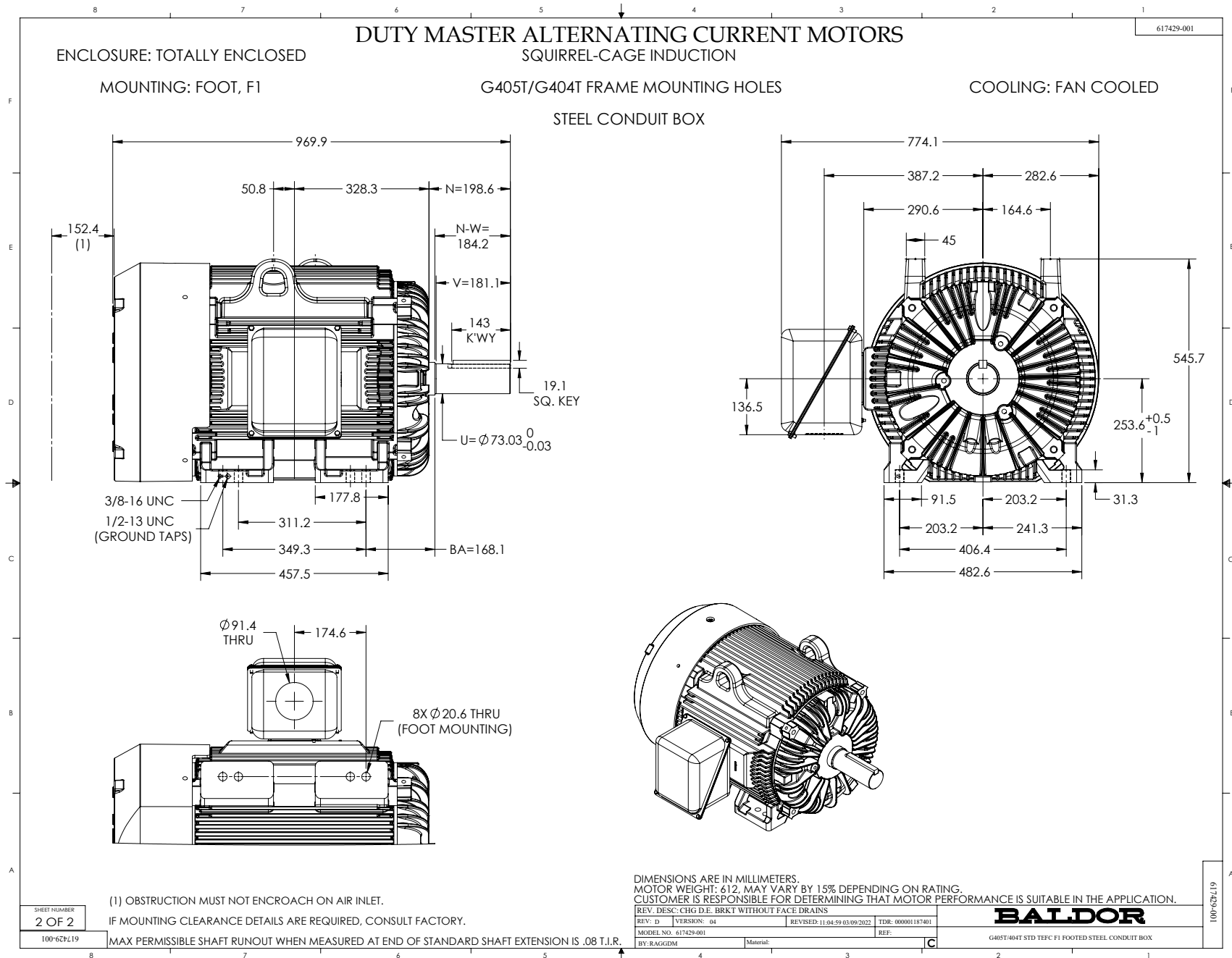
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY R.L.STEPHENS
CK. BY K.W.KANOUFF
APP. BY K.W.KANOUFF
DATE 06/07/96

**A-C MOTOR
PERFORMANCE
CURVES** A40WG0690-R001
ISSUE DATE 06/07/96

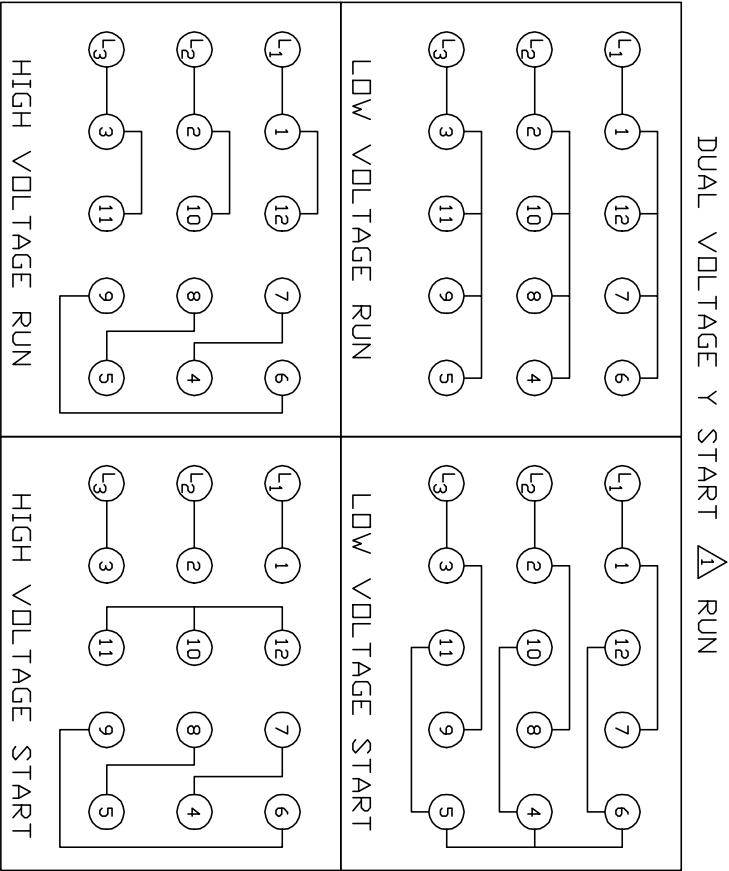




416820-020

A-C MOTOR
CONNECTION DIAGRAM

416820-020



<410961-39 / 1575-AC>

CUSTOMER _____ CUSTOMER ORDER NO. _____ S. D. NO. _____

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000553773
FILE: \RAG\00011\270		REVISED: 01:15:19 08/12/2010
MTL: -		BY: RAGMTC

BALDOR

A-C MOTOR CONNECTION DIAGRAM
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