



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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	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
Overall Length	38.04 IN

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

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

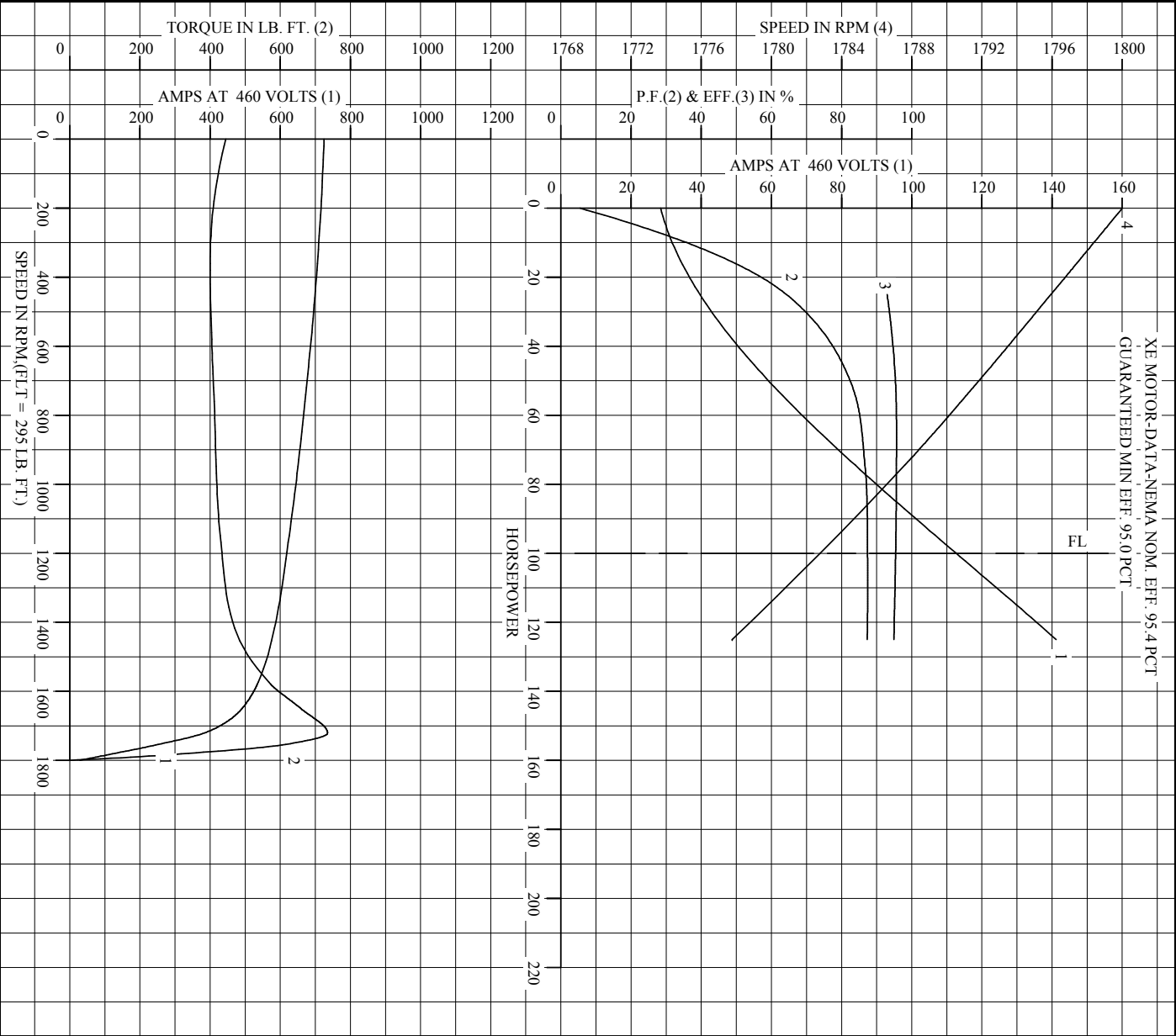
SPEC NO.	P40G3925		CAT.NO.	EM4400T-12				FRAME	405T		
HP	100	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P	
RPM	1785	AMPS	224/112		HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	80BC03J30X		DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	80BC03J30X		ENCL	TEFC	CODE	G					
SER.NO.			POWER FACTOR		87	NEMA-NOM-EFFICIENCY			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	

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 R.L. STEPHENS CK. BY K.W. KANOUE APP. BY K.W. KANOUE DATE 06/07/96			
			A-C MOTOR PERFORMANCE DATA A40WG0690-R001 ISSUE DATE 06/07/96			

REL S.O.	405T	RPM 1785	S.F. 1.15	ROTOR 418142-33-RE
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 FCYE	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 VOLTS 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. KANDOLF
APP. BY K.W. KANDOLF
DATE 06/07/96

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

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

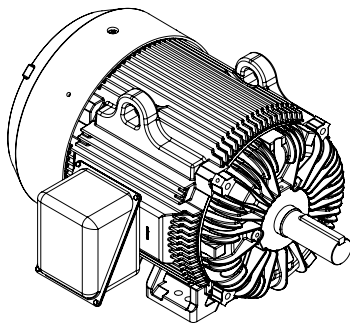
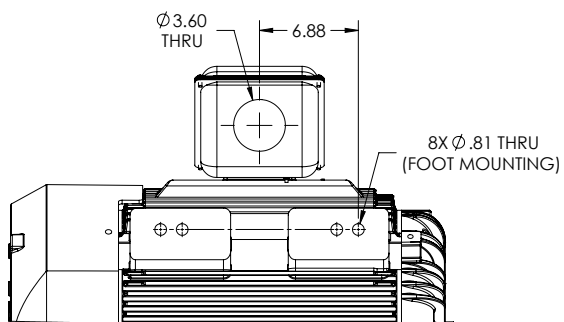
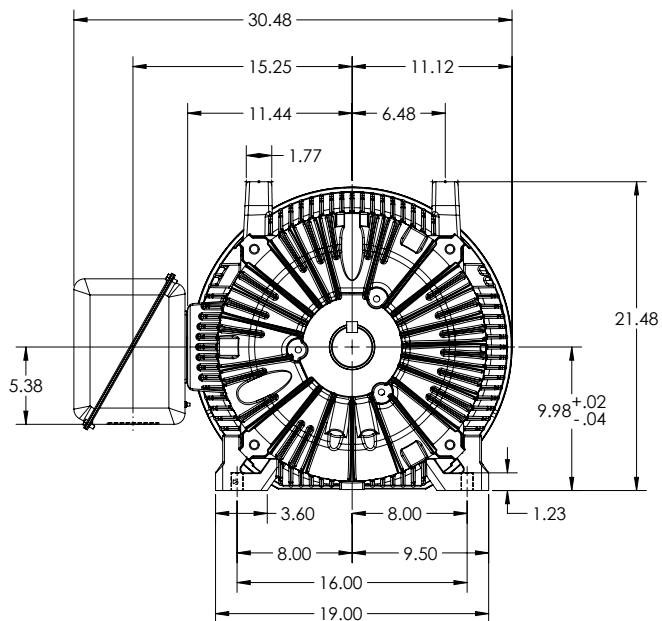
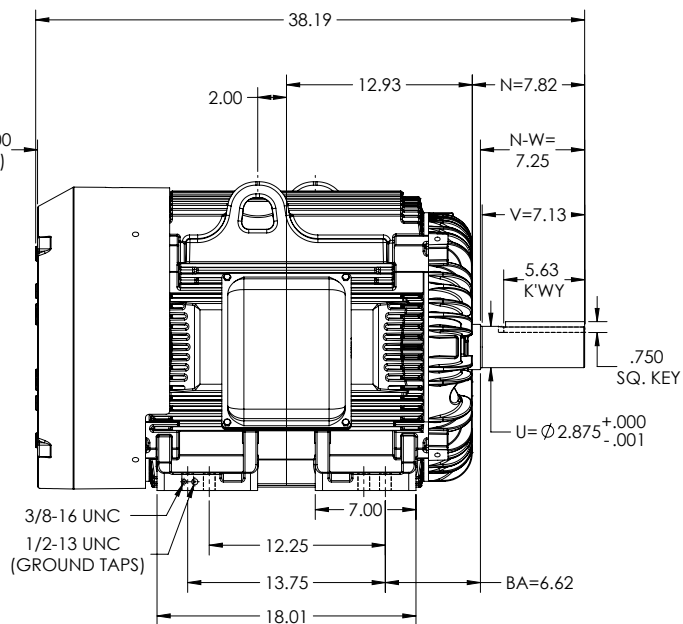
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F1

G405T/G404T FRAME MOUNTING HOLES

COOLING: FAN COOLED

STEEL CONDUIT BOX



(1) OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

DIMENSIONS ARE IN INCHES.
MOTOR WEIGHT: 1350 LBS, MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: CHG D.E. BRKT WITHOUT FACE DRAINS

REV: D	VERSION: 04	REVISED: 11:04:59 03/09/2022	TDR: 000001187401
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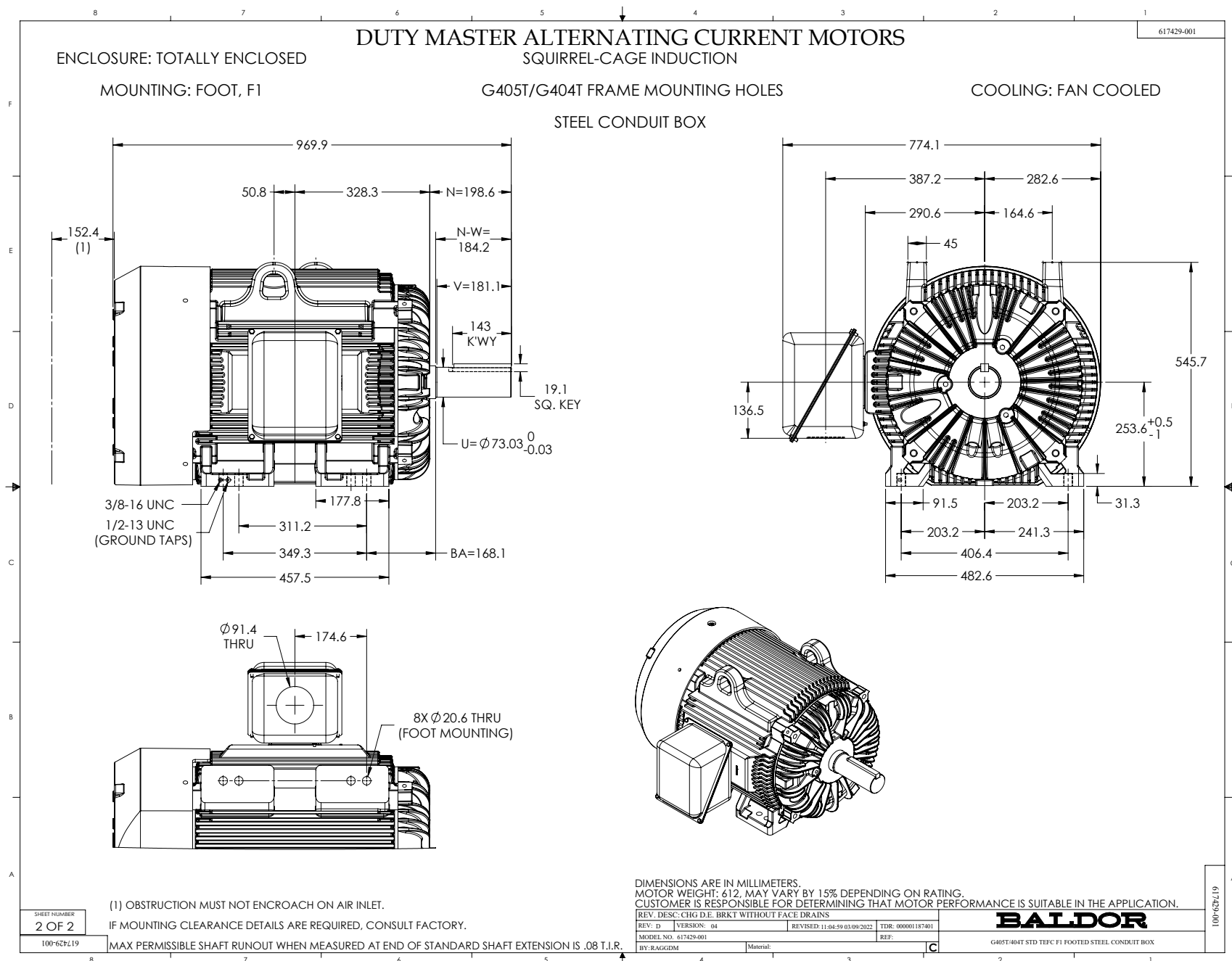
MODEL NO. 617429-001

BY:RAGGDM

Material:	
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BALDOR

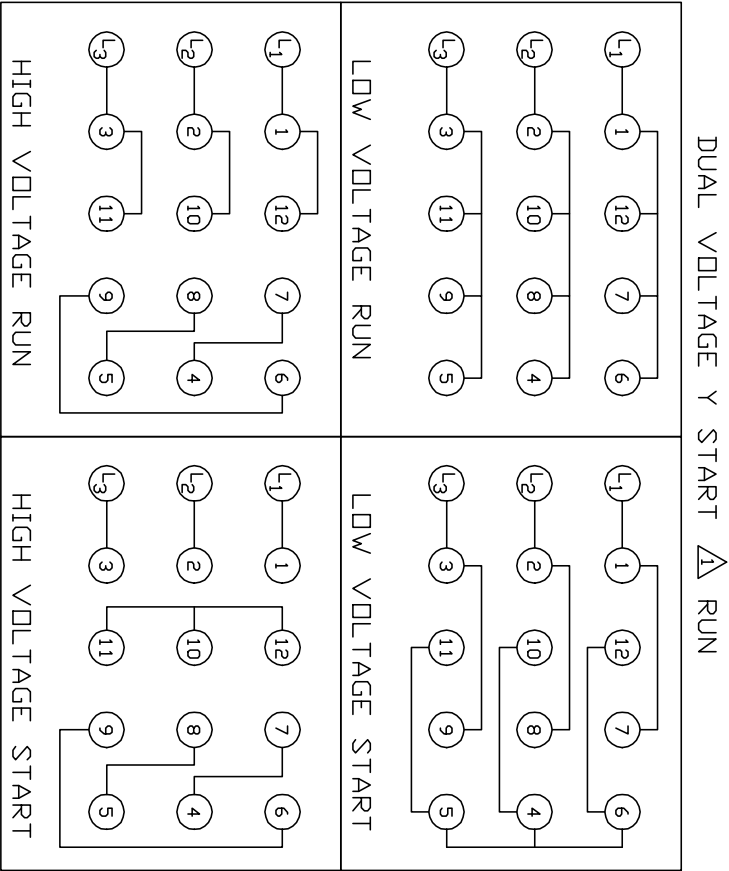
G405T/404T STD TEFC F1 FOOTED STEEL CONDUIT BOX



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
SH 1 of 1