ABB BALDOR RELIANCE

Customer information packet

EM4400T-12

100HP, 1785RPM, 3PH, 60HZ, 405T, A40064M, TEFC
Class - None
Division - Not Applicable

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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

BALDOR

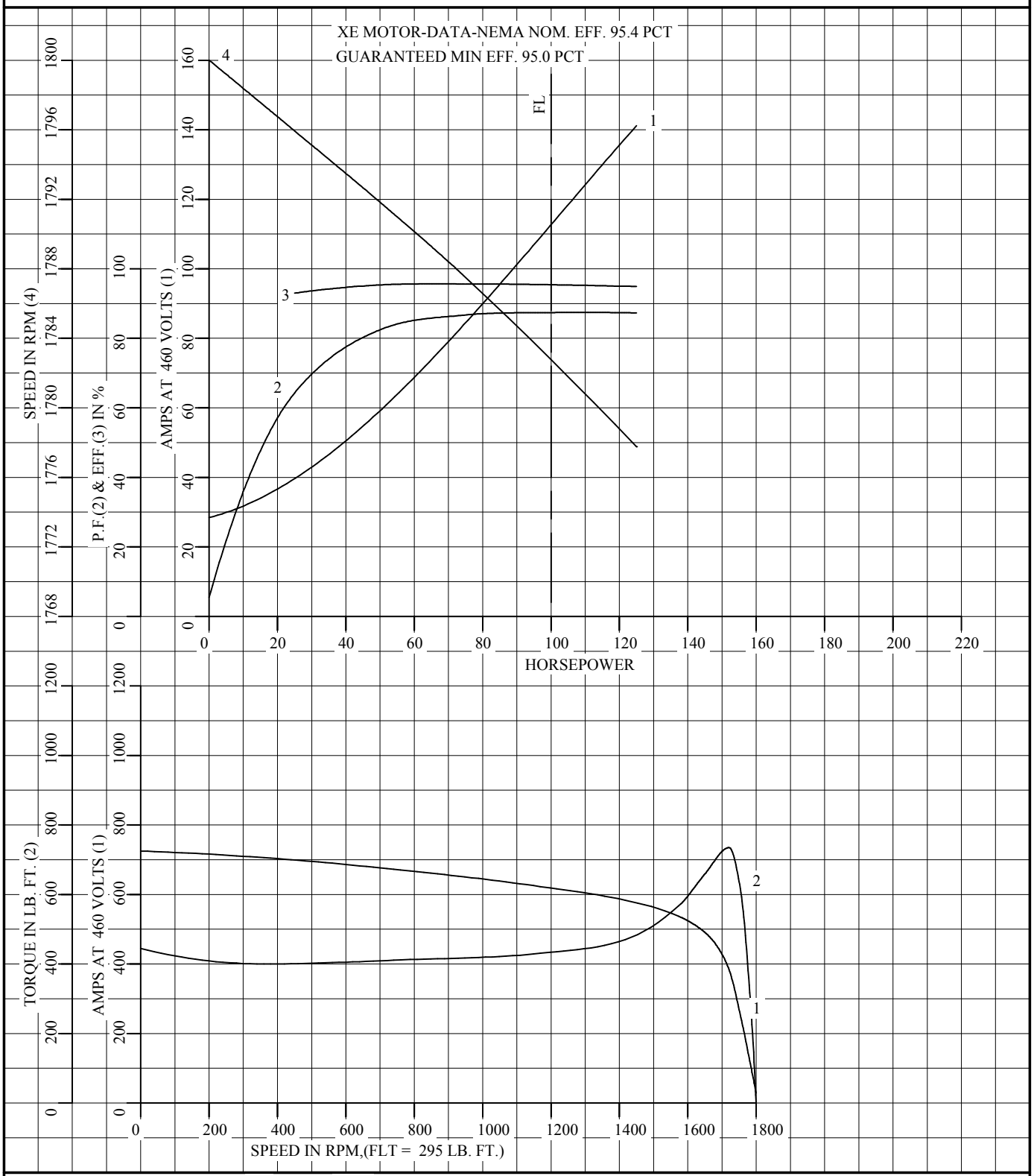
DR. BY R.L.STEPHENS
CK. BY K.W.KANOUFF
APP. BY K.W.KANOUFF
DATE 06/07/96

A-C MOTOR PERFORMANCE DATA

A40WG0690-R001
ISSUE DATE 06/07/96

Printed on 2/2/11 11:21 @ usmgheng dev1

FRAME 405T	RPM 1785	S.F. 1.15	ROTOR 418142-33-RE
HP 100	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 224/112	CODE LETTER G	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE FCXE	STATOR RES.@ 25 ℃ .0123/.0492
	AMB ℃/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

DUTY MASTER ALTERNATING CURRENT MOTORS

617429-001

ENCLOSURE: TOTALLY ENCLOSED

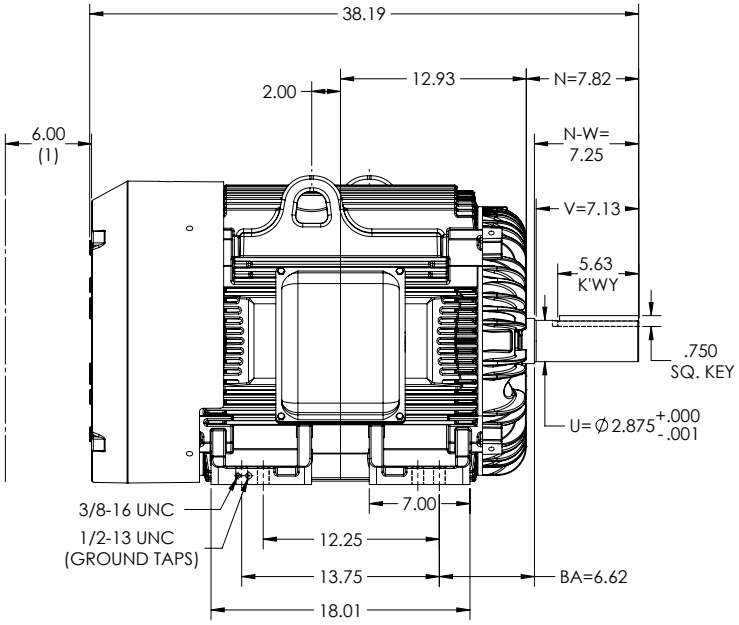
SQUIRREL-CAGE INDUCTION

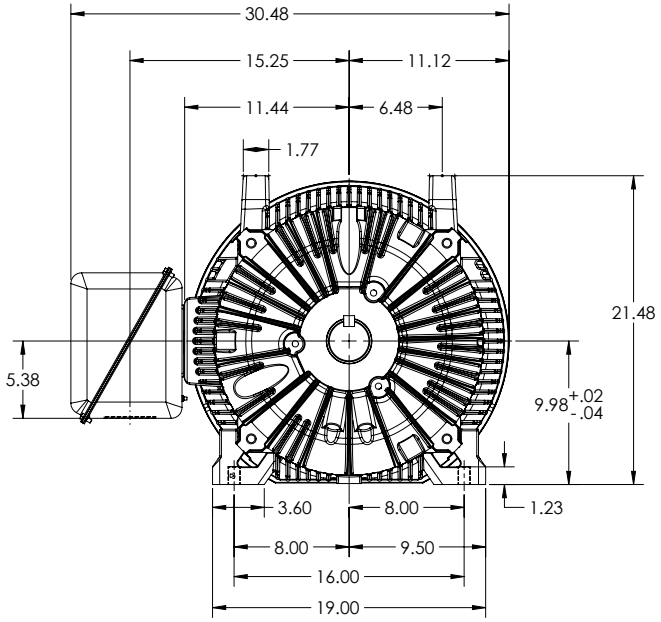
MOUNTING: FOOT, F1

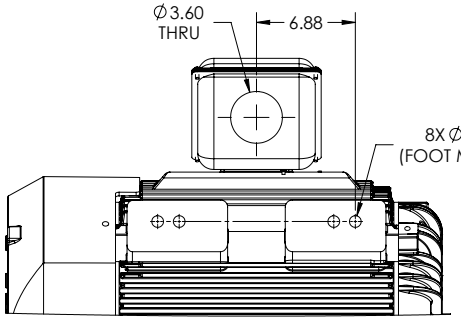
G405T/G404T FRAME MOUNTING HOLES

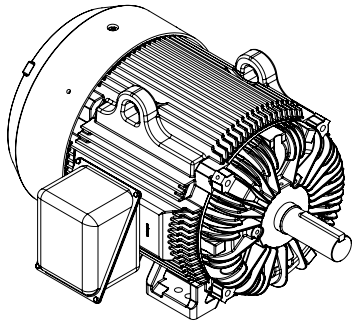
COOLING: FAN COOLED

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.

SHEET NUMBER 1 OF 2	REV. DESC: CHG D.E. BRKT WITHOUT FACE DRAINS		
617429-001	REV: D	VERSION: 04	REVISED: 11:04:59 03/09/2022
	MODEL NO. 617429-001		REF:
	BY: RAGGDM	Material:	C

TDR: 000001187401

BALDOR

G405T/404T STD TEFC F1 FOOTED STEEL CONDUIT BOX

617429-001

DUTY MASTER ALTERNATING CURRENT MOTORS

617429-001

ENCLOSURE: TOTALLY ENCLOSED

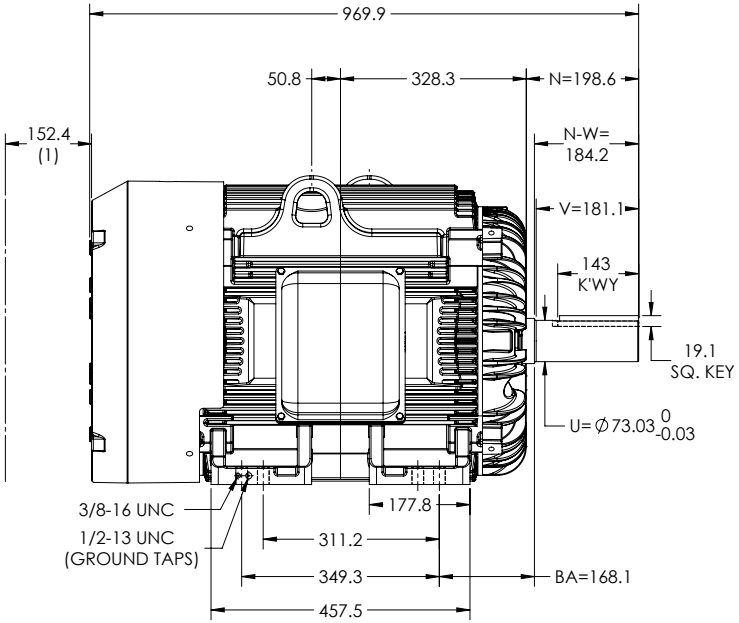
SQUIRREL-CAGE INDUCTION

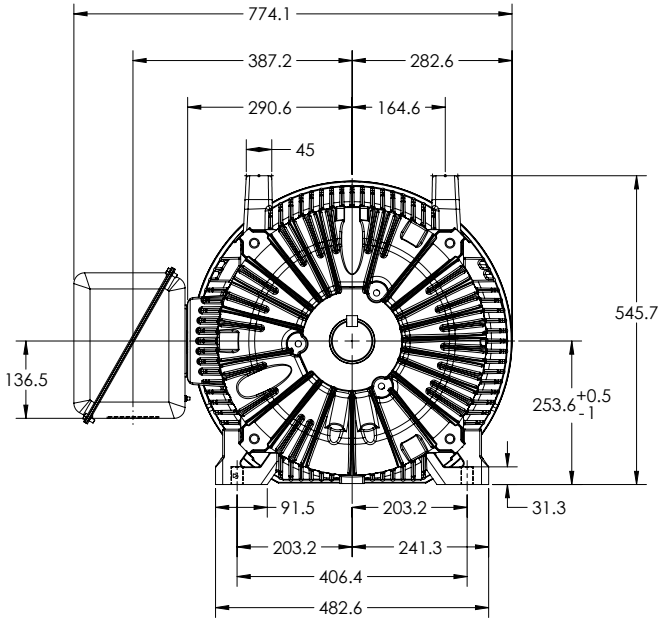
MOUNTING: FOOT, F1

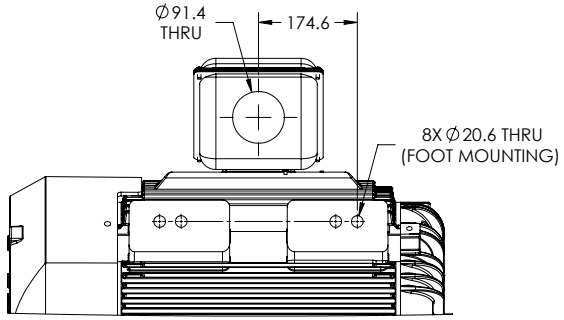
G405T/G404T FRAME MOUNTING HOLES

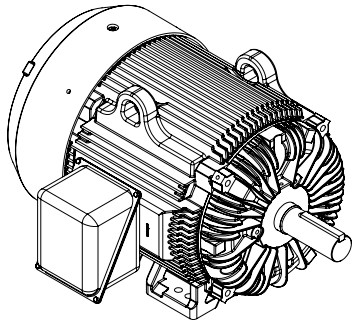
COOLING: FAN COOLED

STEEL CONDUIT BOX









DIMENSIONS ARE IN MILLIMETERS.
MOTOR WEIGHT: 612, MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

(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 .08 T.I.R.

SHEET NUMBER 2 OF 2

617429-001

REV. DESC: CHG D.E. BRKT WITHOUT FACE DRAINS			
REV: D	VERSION: 04	REVISED: 11:04:59 03/09/2022	TDR: 000001187401
MODEL NO. 617429-001		REF:	
BY: RAGGDM	Material:	C	G405T/404T STD TEFC F1 FOOTED STEEL CONDUIT BOX

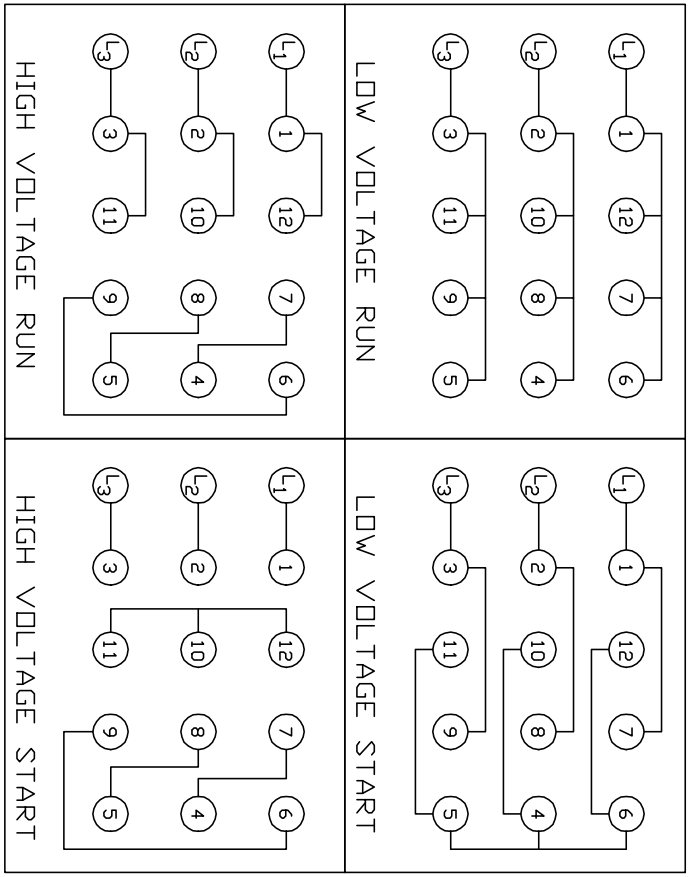
BALDOR

617429-001

416820–020

A–C MOTOR CONNECTION DIAGRAM

DUAL VOLTAGE Y START △1 RUN



(410961-39/ 1575-AC)

CUSTOMER _____ CUSTOMER ORDER NO. _____ S. O. NO. _____

416820–020

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