

ABB BALDOR RELIANCE III

Customer information packet

EFM4403T

60HP, 1185RPM, 3PH, 60HZ, 404T, TEFC, FOOT, F2

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	404T
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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	69.000 A @ 460.0 V 152.000 A @ 208.0 V 138.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	69.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0108
Layout	617429-629
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	06-07-2014

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F2
Number of Poles	6
Overall Length	38.04 IN
Power Factor	86
Product Family	General Industrial
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
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None


Nameplate

NP2349L

SPEC NO.	A40-6088-0108	CAT.NO.	EFM4403T	FRAME	404T				
HP	60	VOLTS	230/460	PHASE	3	DESIGN	B	TYPE	P
RPM	1185	AMPS	138/69	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	86	NEMA-NOM-EFFICIENCY	95				
		MAX CORR KVAR	12.5	GUARANTEED EFFICIENCY	94.1				
		NEMA NOM/CSA QUOTED EFF							
		MOTOR WEIGHT							

NP2496L

MOBIL POLYREX EM

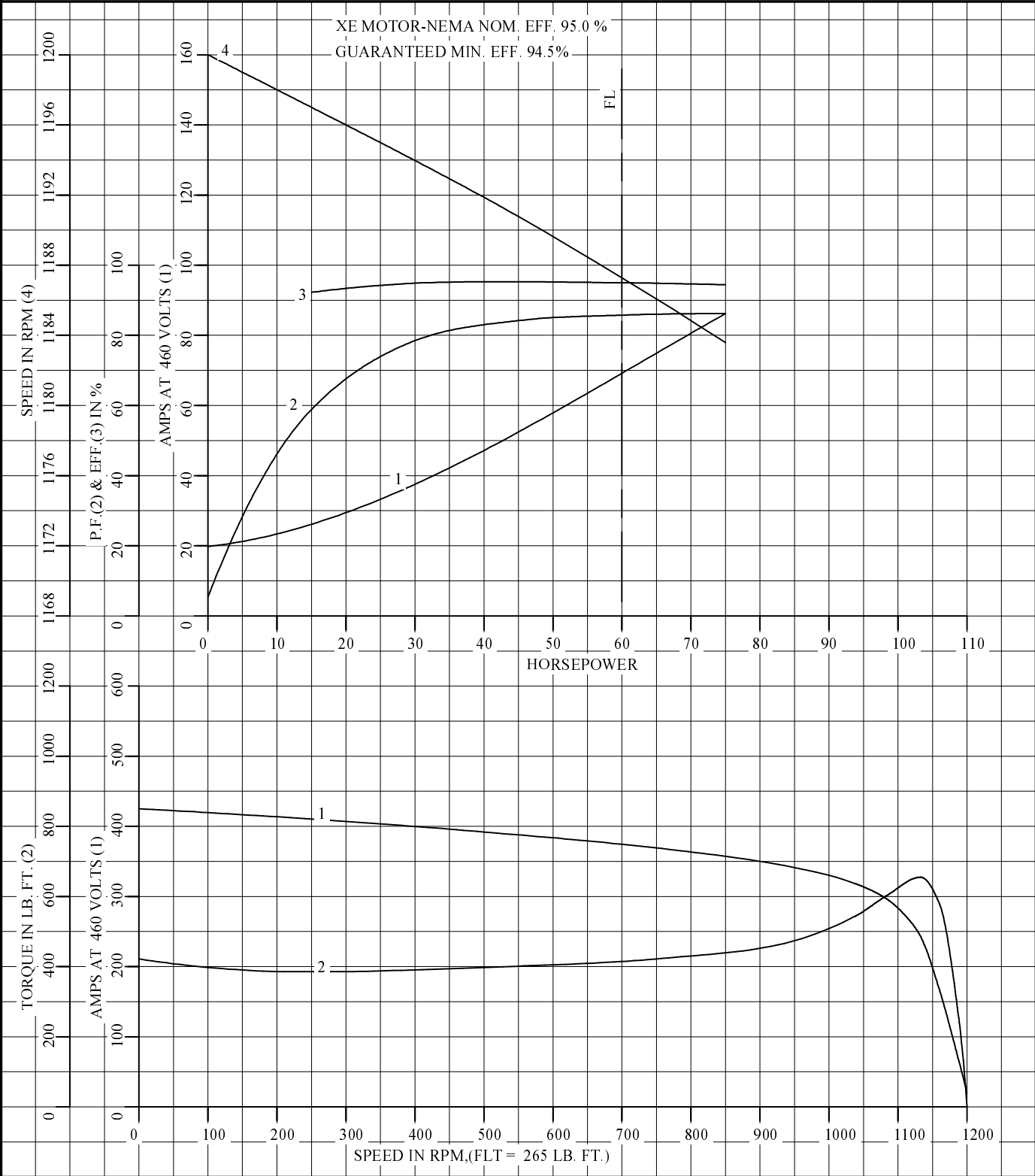
REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	404T	60	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
138/69	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
595762	418142-71EE	---	---	.0270/.108		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	19.9	1200	5.36	0	
1/4	15.0	25.9	1197	58.9	92.3	
2/4	30.0	37.7	1194	78.5	94.9	
3/4	45.0	52.5	1191	84.2	95.2	
4/4	60.0	69.0	1187	85.8	95.0	
5/4	75.0	86.3	1184	86.2	94.4	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	159	422	425	
PULL UP		240	145	385	411	
BREAKDOWN		1133	247	655	243	
FULL LOAD		1187	100	265	69.0	
<p>AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE</p> <p>REMARKS: TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 95.0 % GUARANTEED MIN. EFF. 94.5%</p>						
			DR. BY <u>J.E.SUMRELL</u> CK. BY <u>D.M.BYRD</u> APP. BY <u>D.M.BYRD</u> DATE <u>10/29/91</u>		A-C MOTOR PERFORMANCE A40WG0108-R001 DATA	
			ISSUE DATE 12/15/10			

FRAME 404T
HP 60
TYPE P
PHASE/HERTZ 3/60

VOLTS 230/460
AMPS 138/69
DUTY CONT
AMB °C/INSUL 40/F

NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 595762

TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25 °C .0270/.108
OHMS (BETWEEN LINES)



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



DR. BY J.E. SUMRELL
CK. BY D.M. BYRD
APP. BY D.M. BYRD
DATE 10/29/91

**A-C MOTOR
PERFORMANCE CURVES** A40WG0108-R001
ISSUE DATE 12/15/10

REL. S.O.

RPM 1185

S.F. 1.15

ROTOR 418142-71EE

FRAME 404T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 138/69

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

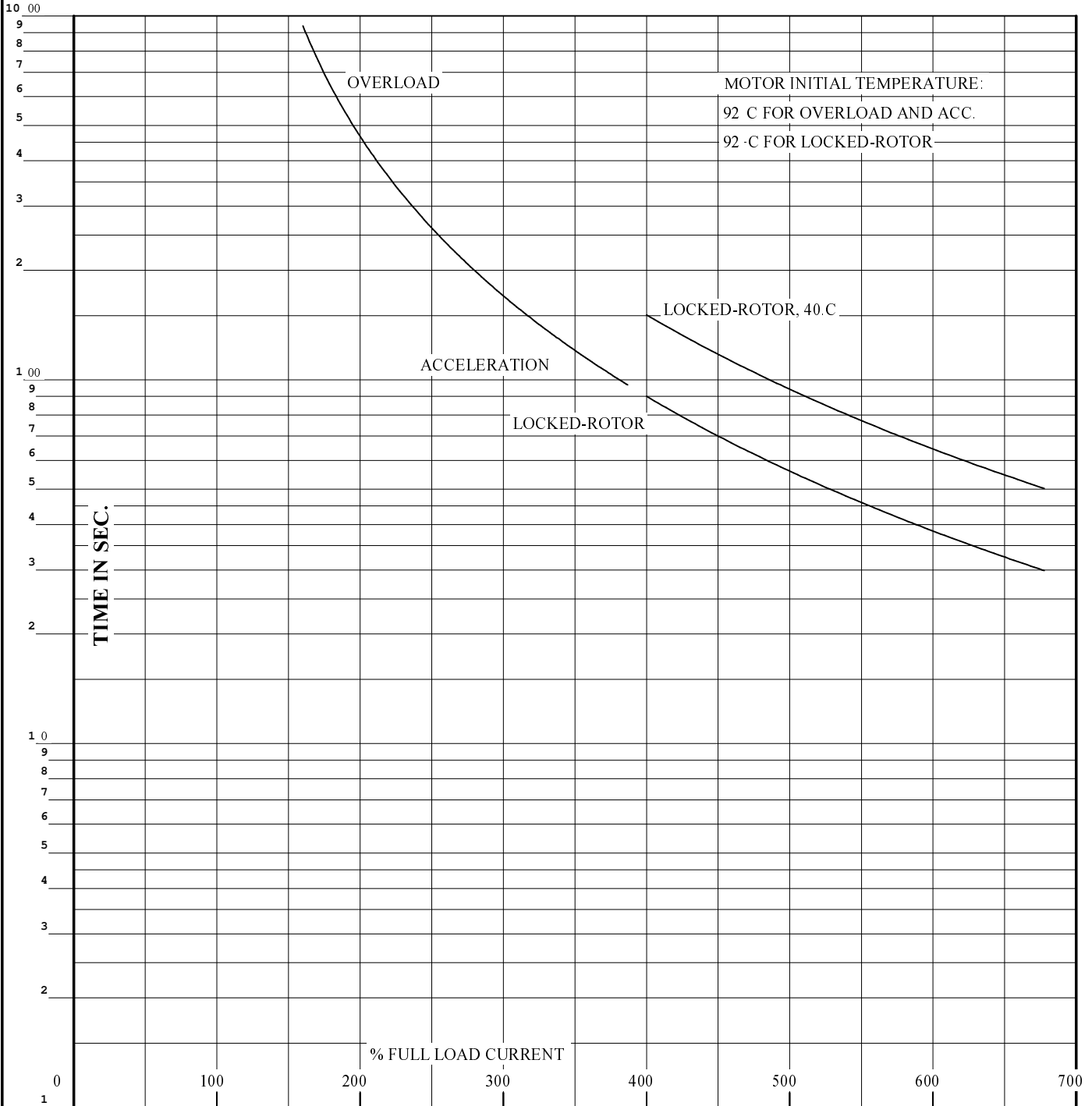
STATOR RES. @ 25 °C .0270 / .108

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 595762

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.0 %
GUARANTEED MIN. EFF. 94.5%

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



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DATE 10/29/91

**A-C MOTOR
PERFORMANCE A40WG0108-R001
CURVES** ISSUE DATE 12/15/10

617429-629

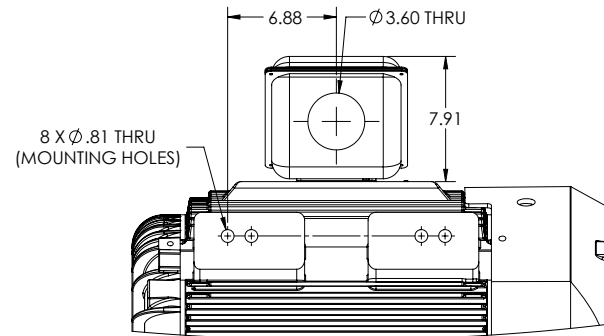
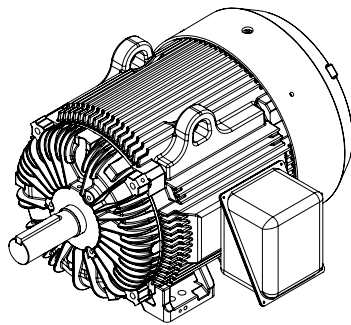
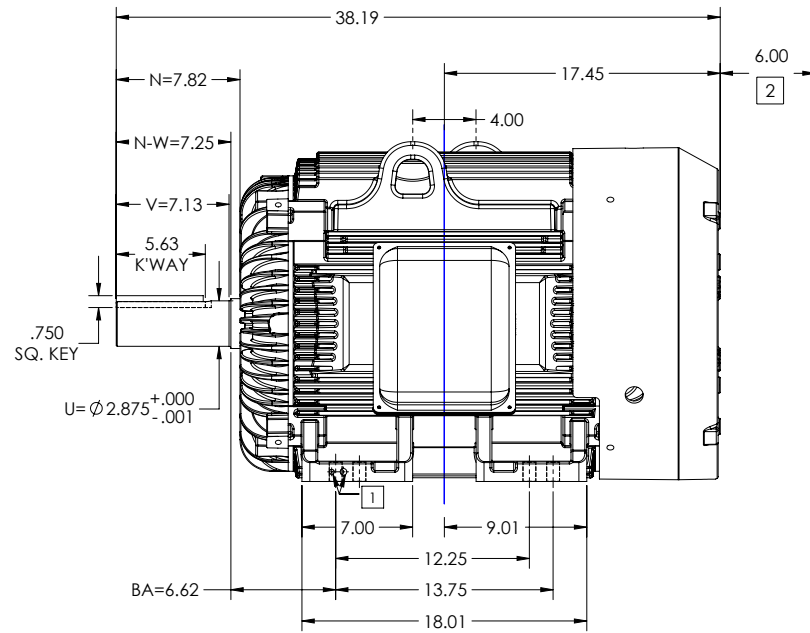
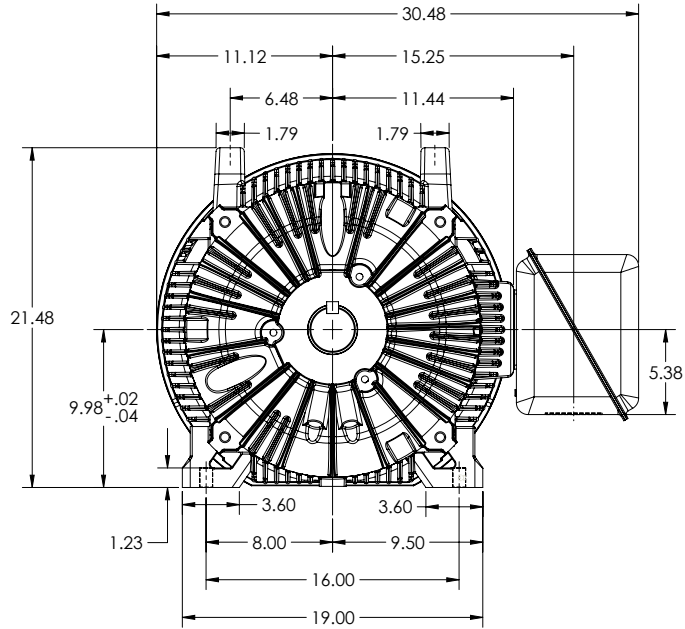
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-2

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

G405T/G404T FRAME MOUNTING HOLES

COOLING: FAN COOLED



SHEET NUMBER
1 OF 1
629-629-119

1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
 2. OBSTRUCTION MUST NOT ENCR OACH 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
WEIGHT (LBS): 1350. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV: A	VERSION: 01	REVISED: 10-32-51 10/25/2016	TDR: 00001000817
MODEL NO. 617429-629	BY: USJEDL	Material:	REF:

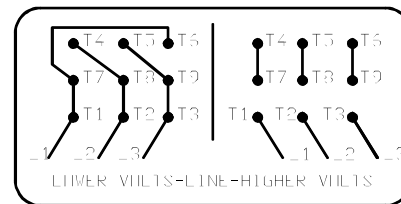
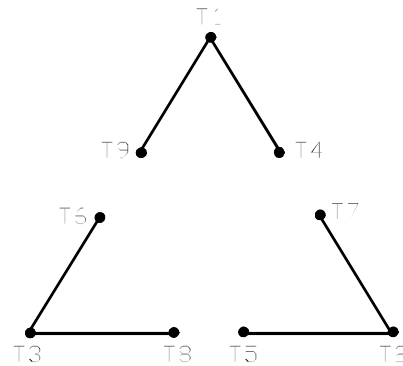
BALDOR

G405T/404T TEFC F2 FOOTED STD ENCLOSURE W/ STEEL BOX

617429-629

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

416820-002

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: -	© □	

BALDOR - RELIANCE®

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH 1 of 1