

ABB BALDOR RELIANCE III

Customer information packet

IDXM7066T

60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, F1

Class - CLI GP D

Division - Division I

Specifications

Enclosure	TEFC
Frame	X364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	60.000 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	UL CSA CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	2:1
Current @ Voltage	136.000 A @ 230.0 V 68.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	X
Haz Area Temp Code	T2B
Heater Indicator	No Heater
High Voltage Full Load Amps	68.0 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1207
Layout	616512-525
Eff. date	09-12-2023
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	03-10-2016

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.44 IN
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2496L	
MOBIL POLYREX EM	

000613006PC		
CLASS I GROUP	D X X	NO.
CLASS II GROUP	X X X	
OPERATING TEMP CODE	T2B	

000613007HV

CAT NO			SPEC NO.	P36G4722				
SER.NO.			FRAME	X364T				
	HP	RPM	VOLTS	AMPS	HZ	TYPE	P	
BASE	60	1780	230/460	136/68	60	SF	1.00	
MAX	60	2670	230/460	140/70.2	90	INSUL.CLASS	F	
DRIVE END BEARING	65BC03J30X		CONSTANT TORQUE	DUTY	CONT	AMB	40	
OPP D.E. BEARING	65BC03J30X		2:1	ENCL	TEFC	PHASE	3	
DESIGN NO.	A36WG1207-R004		FLUX AMPS	40.6/20.3		VPWM INVERTER READY		
MAX SPEED/RPM	3600		OVERTEMP PROT	2	WK2	14.5	POLES	4 WEIGHT

000901002AAA	
SUITABLE FOR OPERATION ON VPWM	INVERTER
EQUIPPED WITH IGBT DEVICES AND	CAPABLE OF
CARRIER FREQUENCY OF 2 KHZ OR	HIGHER

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							IDXM7066T - 60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, F1																																		
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS																														
			364T			60			P			3/60			1780			230/460																														
AMPS							DUTY							AMB °C/ INSUL							S.F.							NEMA DESIGN							CODE LETTER							ENCLOSURE						
136/68							CONT							40/F							1.00							B							G							TEFC						
E/S							ROTOR							TEST S.O.							TEST DATE							STATOR RES. @25 °C OHMS (BETWEEN LINES)																				
492281							418141035YE							---							---							.0277/.110																				
PERFORMANCE																																																
LOAD							HP							AMPERES							RPM							% POWER FACTOR							% EFFICIENCY													
NO LOAD							0							18.7							1800							8.55							0													
1/4							15.0							26.0							1795							60.7							89.0													
2/4							30.0							38.1							1791							79.3							93.1													
3/4							45.0							52.2							1786							86.0							94.0													
4/4							60.0							68.0							1781							87.8							94.1													
5/4							75.0							84.9							1776							88.2							93.7													
SPEED TORQUE																																																
														RPM							TORQUE % FULL LOAD							TORQUE LB.-FT.							AMPERES													
LOCKED ROTOR														0							181							320							430													
PULL UP														720							160							283							395													
BREAKDOWN														1703							250							443							244													
FULL LOAD														1781							100							177							68.0													
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																																																
TYPICAL DATA																																																
														DRAWN BY: <u>C.R.THOMPSON</u> CHECKED BY: <u>K.W. KANOUFF</u> APPROVED BY: <u>K.W. KANOUFF</u> DATE: <u>11/04/93.</u>														AC MOTOR PERFORMANCE DATA							A36WG1207-R004 DATE ISSUED 05/24/13													

FRAME 364T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 136/68

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

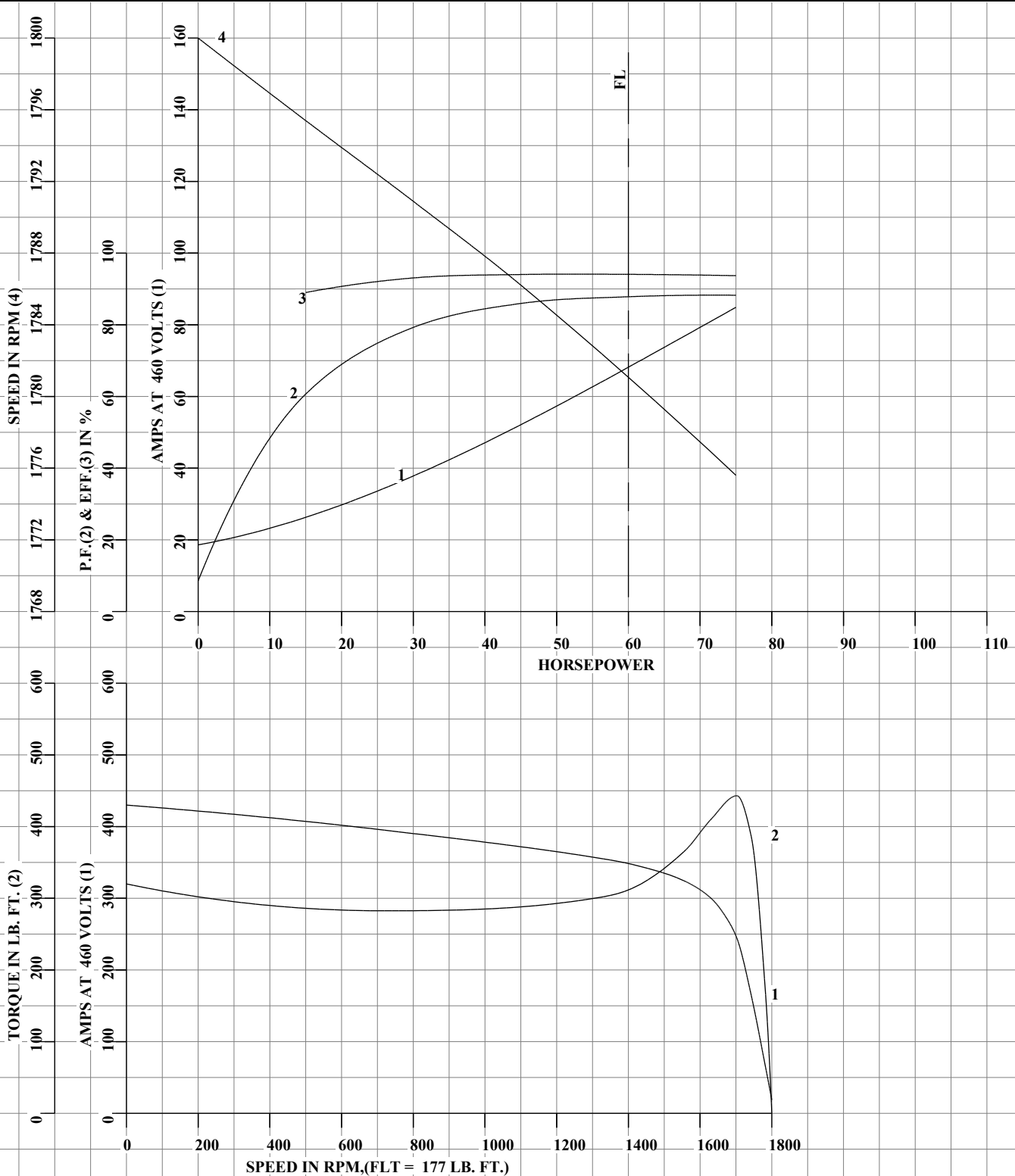
STATOR RES. @ 25°C .0277/.110

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 492281

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: C.R.THOMPSON
 CHECKED BY: K.W. KANOUFF
 APPROVED BY: K.W. KANOUFF
 DATE: 11/04/93.

AC MOTOR
 PERFORMANCE
 DATA

A36WG1207-R004

ISSUE DATE 05/24/13

FRAME 364T

RPM 1780

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 136/68

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

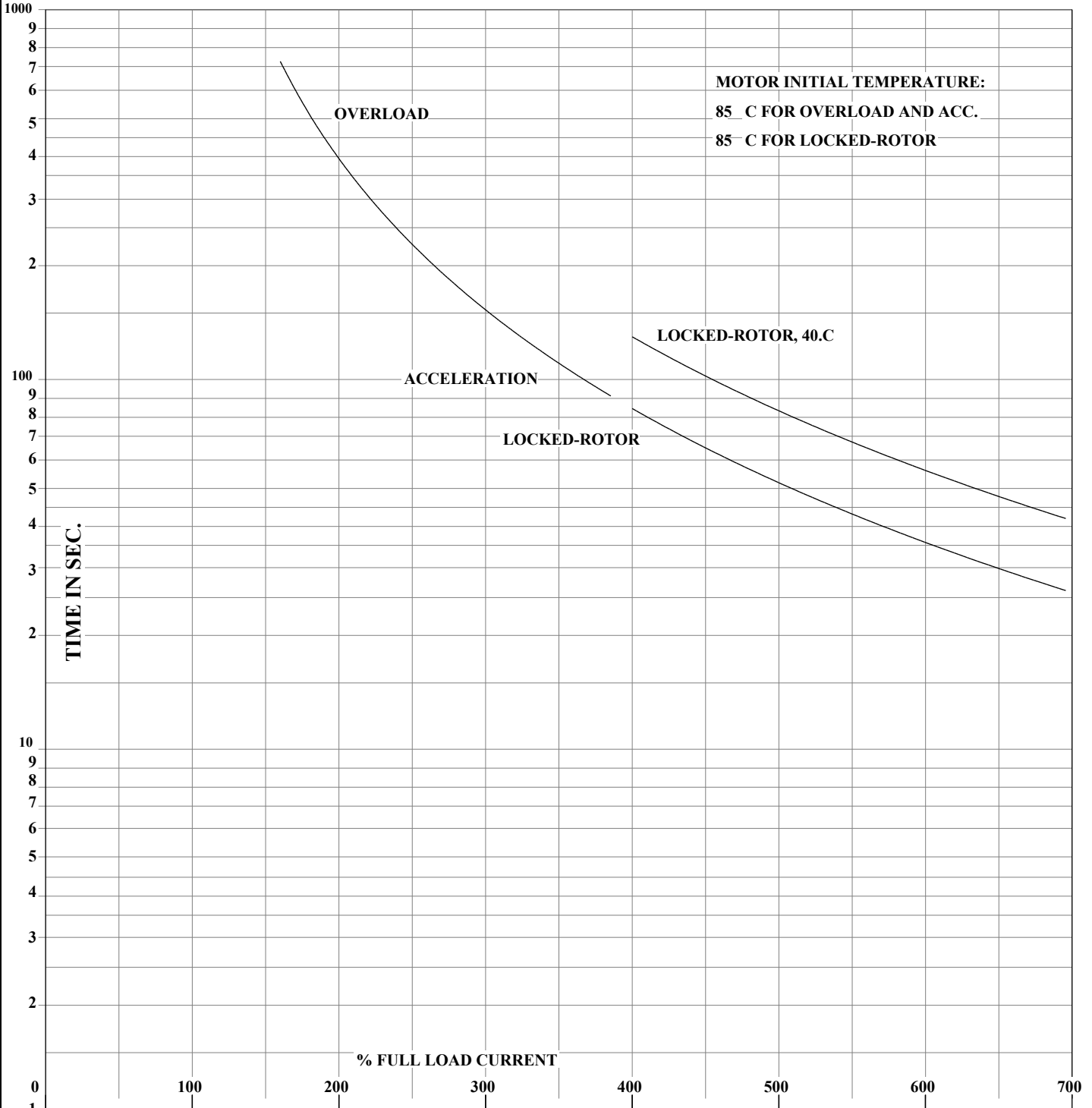
STATOR RES. @ 25°C .0277/.110

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 492281

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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AC MOTOR
PERFORMANCE
DATA

A36WG1207-R004

ISSUE DATE 05/24/13

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

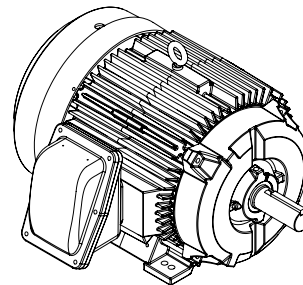
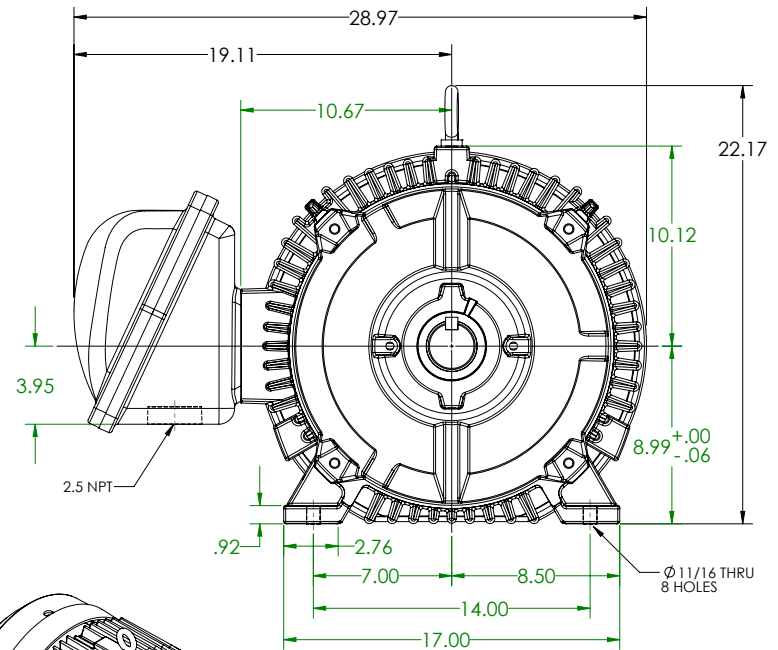
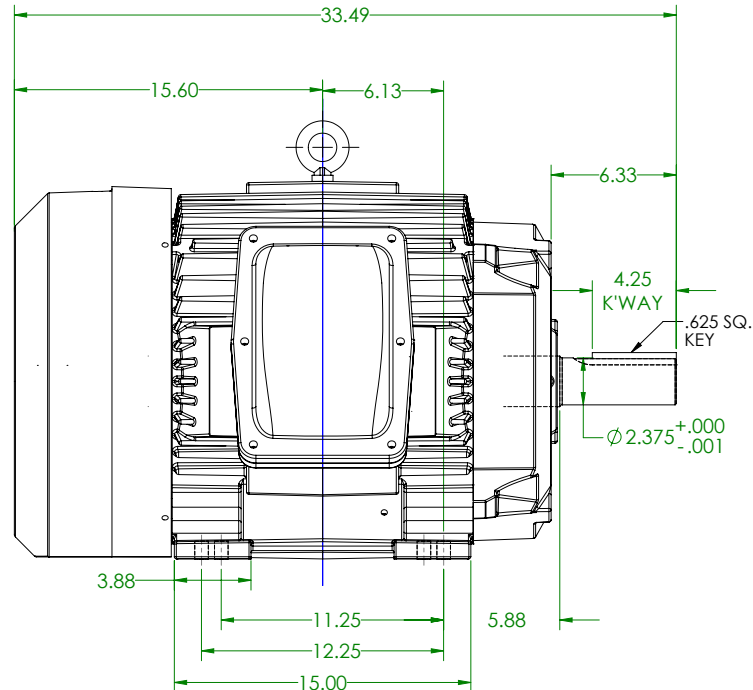
ENCLOSURE: TOTALLY ENCLOSED

FRAME 365T

COOLING: FAN-COOLED

MOUNTING: FOOT

INCLUDES 364T FRAME MOUNTING HOLES



DIMENSIONS ARE IN INCHES

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

SHEET NUMBER
1 OF 1

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .001" T.I.R.

REV. DESC: NEW ISSUE
REV: - VERSION: 00 REVISED: 04/28/17 03/10/2016 TDR: 000000970300
MODEL NO. 616512-525
BY: RAGGDM

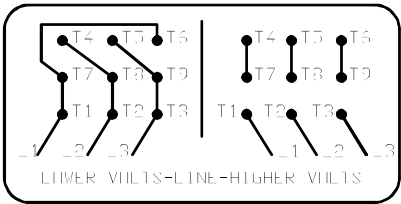
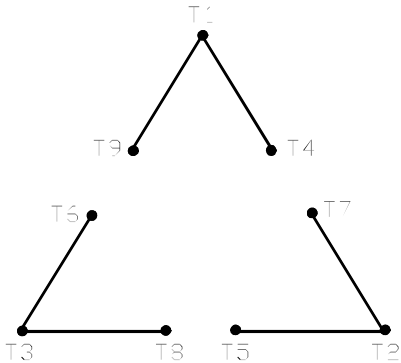
BALDOR

E365T 6313 FCXP W/BOLT ON CONDUIT BOX - CLASS 1 GR D

616512-525

416820-002

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



(N.P. 1575-B)

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

416820-002