

ABB BALDOR RELIANCE III

Customer information packet

EM7566T-I

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

Class - CLI GP D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP D; CL II GP E,F,G
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	CCSA US CSA CSA EEV UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	135.000 A @ 230.0 V 67.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	67.8 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A36WG1727
Layout	611742-983-SH1
Eff. date	02-08-2021
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	03-09-2016

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
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
Power Factor	87
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2293L											
CAT.NO.				SPEC NO.	P36G4719					FRAME	364T
HP	60	PHASE	3	DESIGN	B	TYPE	P				
RPM	1780	HZ	60	AMB		40	SF	1.15			
VOLTS	230/460		DUTY		CONT		INSUL.CLASS		F		
AMPS	136/67.8			ENCL		TEFC	CODE	G			
DRIVE END BEARING	65BC03J30X		NEMA-NOM-EFFICIENCY				95				
OPP D.E. BEARING	65BC03J30X										
SER.NO.											
								MOTOR WEIGHT			

000613006PC		
CLASS I GROUP	D X X	NO.
CLASS II GROUP	E F G	
OPERATING TEMP CODE	T3C	

REL. S.O.

RPM 1780

S.F. 1.15

ROTOR 418141035YE

FRAME 364T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 136/67.8

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE FCXP-XE

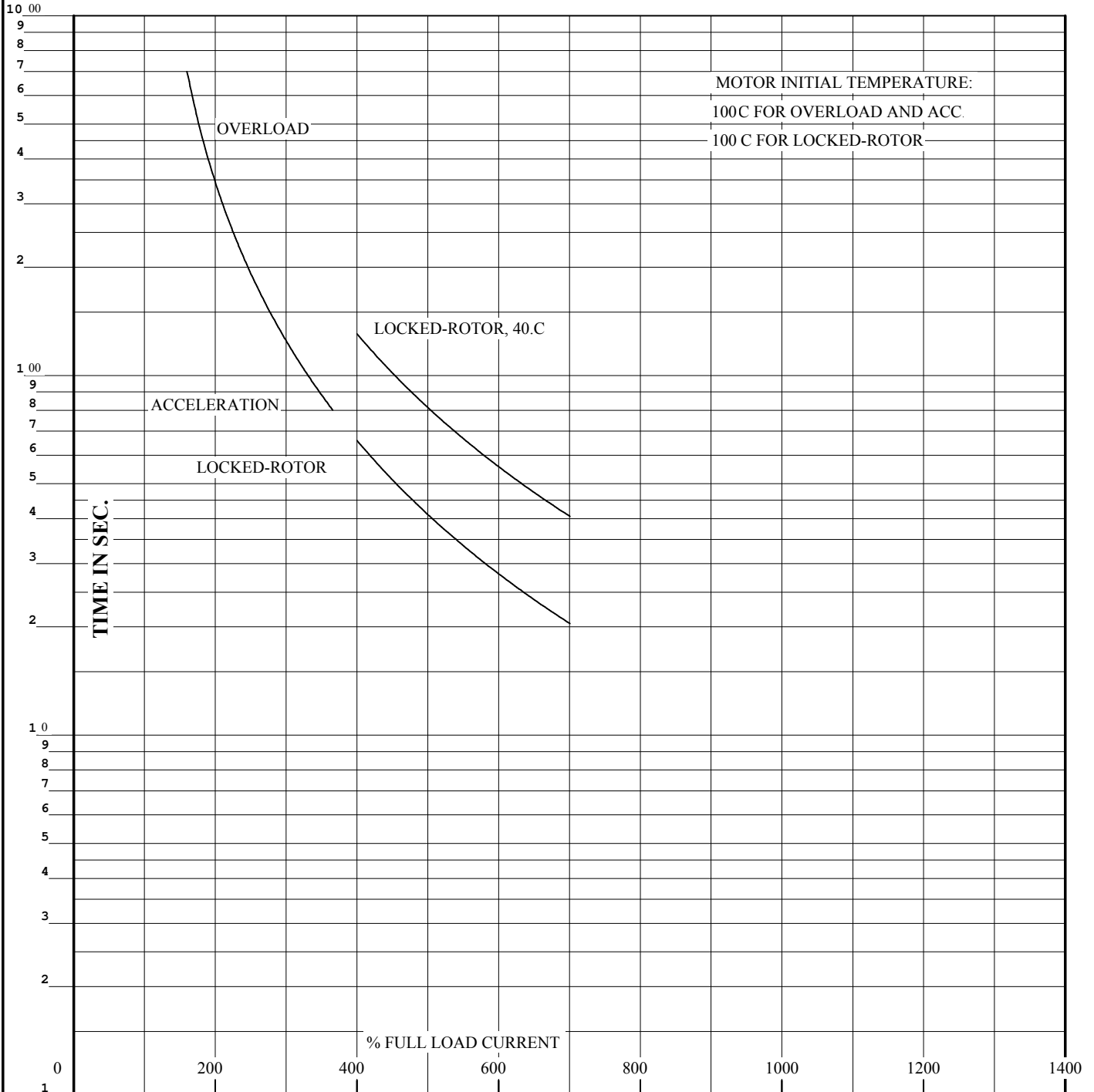
STATOR RES. @ 25 °C .0266/.106

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 491317

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

NEMA PREMIUM - 95.0 PCT NOMINAL EFFICIENCY

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

BALDOR
A MEMBER OF THE ABB GROUP

 DR. BY W.L. SMITH
 CK. BY J.J. HARRISON
 APP. BY W.L. SMITH
 DATE 08/24/10

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG1727-R003

ISSUE DATE 05/31/11 Page 6 of 10

REL. 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	ENCL.
136/67.8	CONT	40/B	1.15	B	G	FCXP-XE
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
491317	418141035YE	---	---	.0266/.106		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	21.8	1800	4.07	0	
1/4	15.0	27.0	1796	55.8	93.3	
2/4	30.0	38.4	1791	76.6	95.4	
3/4	45.0	52.4	1786	84.2	95.5	
4/4	60.0	67.8	1781	87.0	95.2	
5/4	75.0	84.6	1776	87.8	94.6	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	185	327	432	
PULL UP		270	155	274	399	
BREAKDOWN		1709	251	444	246	
FULL LOAD		1781	100	177	67.8	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA NEMA PREMIUM - 95.0 PCT NOMINAL EFFICIENCY						
		DR. BY W. L. SMITH		A-C MOTOR PERFORMANCE DATA A36WG1727-R003 ISSUE DATE 05/31/11		
		CK. BY J. J. HARRISON				
		APP. BY W. L. SMITH				
		DATE 08/24/10				

REL S.O.

RPM 1780

S.F. 1.15

ROTOR 418141035YE

FRAME 364T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 136/67.8

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE FCXP-XE

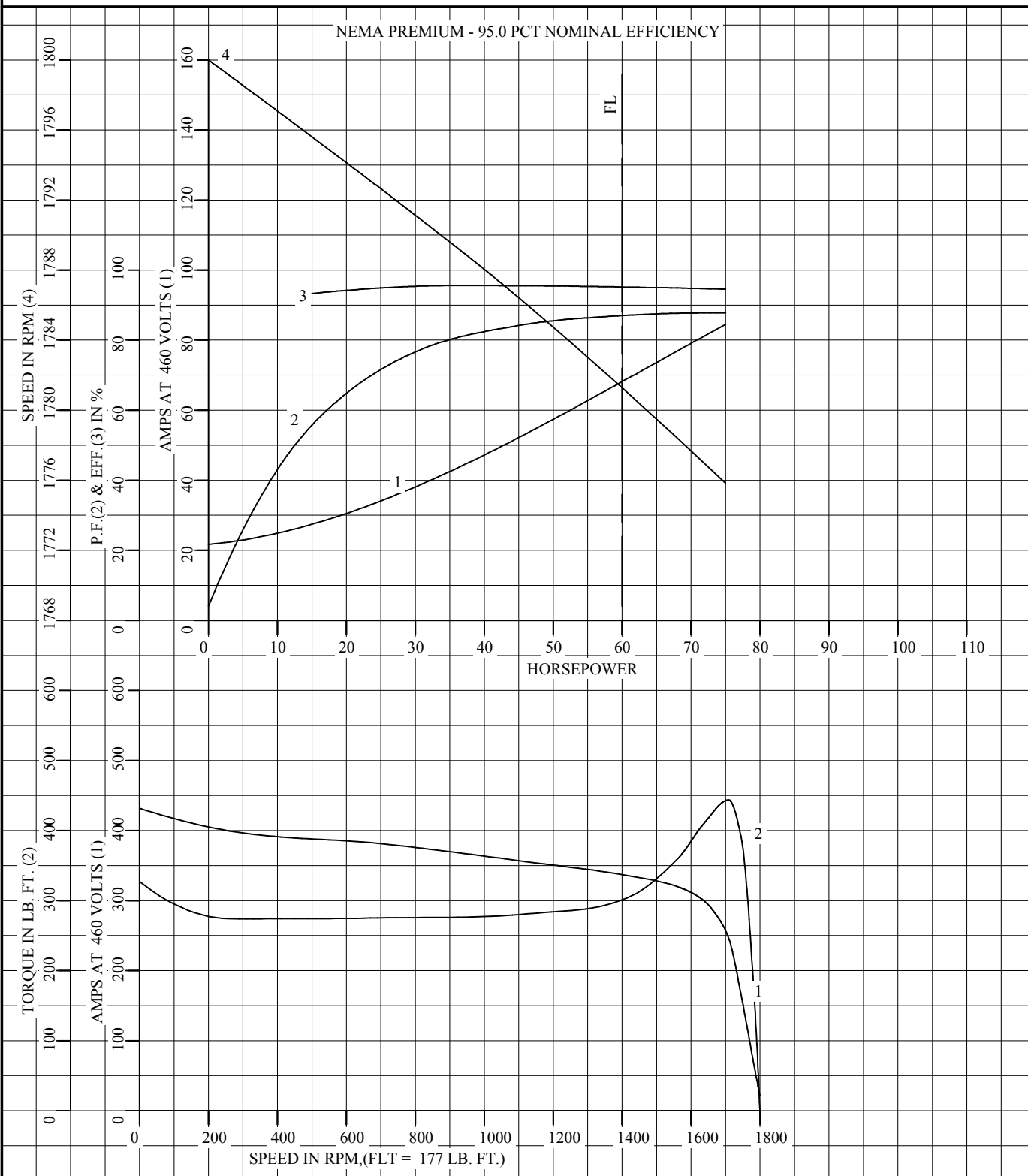
STATOR RES. @ 25 °C .0266/.106

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 491317

OHMS (BETWEEN LINES)



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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**A-C MOTOR
PERFORMANCE
CURVES**

A36WG1727-R003

ISSUE DATE 05/31/11

Page 8 of 10

611742-983-SH1

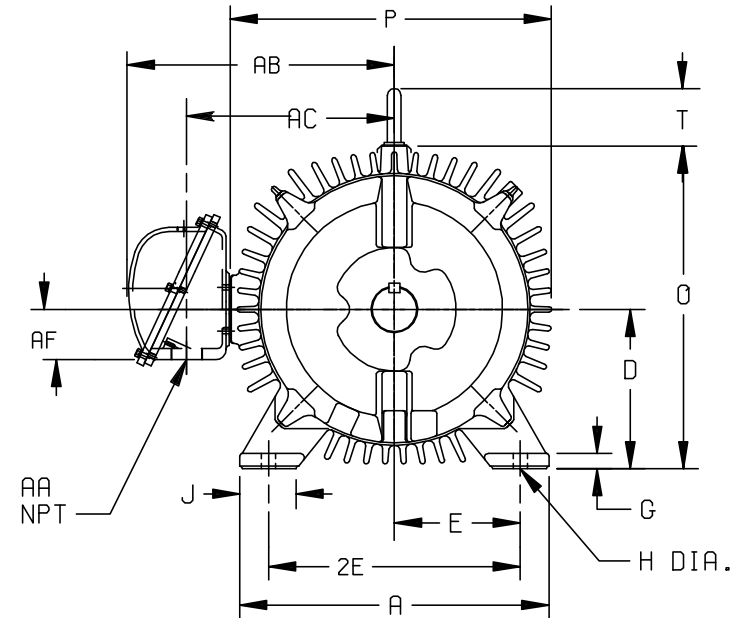
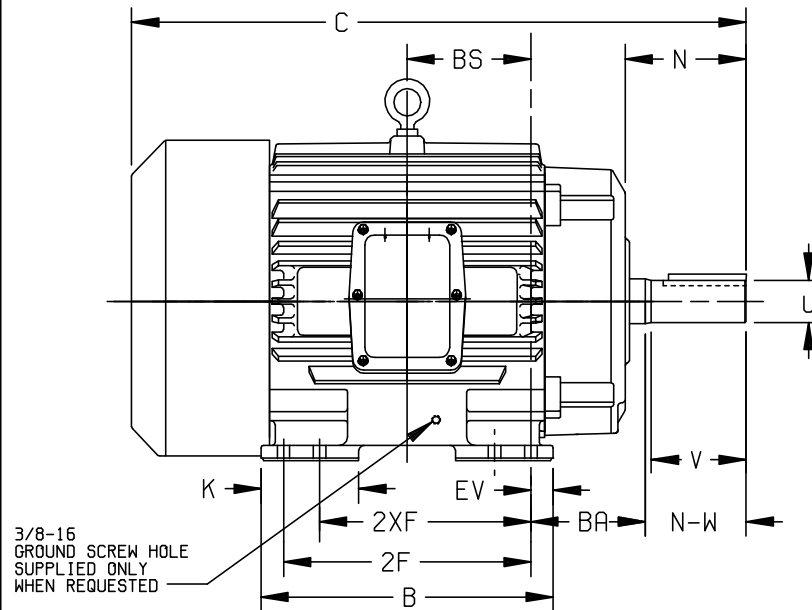
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED
UNDERWRITERS LISTED MOTOR
MOUNTING: FOOT

FRAMES E364T-E365TS

COOLING: FAN COOLED
BOLTED ON CONDUIT BOX



DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

FRAME	A	D(1)	E	G	H	J	K	O	P	T	XP TERMINAL BOX				BA	EV
											AA	AB	AC	AF		
E364T-365TS	17.00	9.00	7.00	.88	.69	2.75	4.00	19.11	20.25	2.94	2-1/2	18.64	14.14	4.00	5.88	1.38

FRAME SIZE	C	BS	B	2F	(3) 2XF	N	SHAFT AND KEY					WEIGHT LBS. (4)
							N-W(5)	U(2)	V	SQ.	LGTH.	
E364T	33.44	6.12	15.00	---	11.25	6.00	5.88	2.375	5.62	.625	4.25	910
E364TS	31.31	6.12	15.00	---	11.25	3.88	3.75	1.875	3.50	.500	2.00	904
E365T	33.44	6.12	15.00	12.25	---	6.00	5.88	2.375	5.62	.625	4.25	950
E365TS	31.31	6.12	15.00	12.25	---	3.88	3.75	1.875	3.50	.500	2.00	944

- (1) "D" VARIES +.00, -.06.
- (2) "U" VARIES +.000, -.001.
- (3) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (4) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (5) "N-W" VARIES +.00, -.25.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2,W-1, W-4,W-5,W-7, OR C-1 MOUNTING IS SPECIFIED.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .003

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: NEW ISSUE		
REV. LTR: -	VERSION: 00	TDR: 000000969971
FILE: \RAG\00021\494	REVISED: 02:20:27 03/09/2016	BY: RAGGDM
MTL: -		

BALDOR

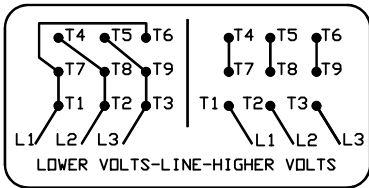
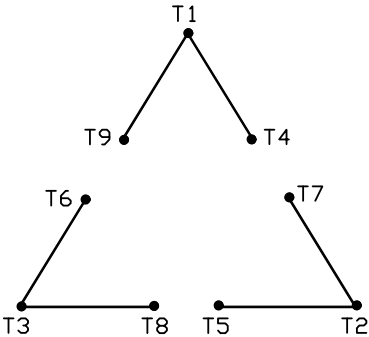
DIM SHT FCXP FT E360T BOLTED ON C/B W/2-1/2"NPT

SH 1 of 1

611742-983-SH1

416820-002

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



(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -		



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED
SH1 of 1

416820-002