

ABB BALDOR RELIANCE III

Customer information packet

EM7084T

40HP, 1180RPM, 3PH, 60HZ, 364T, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 50 HZ 40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA EEV CSA CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	94.400 A @ 230.0 V 86.600 A @ 190.0 V 47.200 A @ 460.0 V 43.300 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0791
Layout	611742-983-SH1
Eff. date	09-01-2020
CD Diagram	416820-002
Poles	06
Leads	3#6,6#8
Proprietary	False
Created date	03-09-2016

Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	43.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.44 IN
Power Factor	84
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	No Slinger
Speed	1180 rpm 985 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

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

NP2293L

CAT.NO.	EM7084T			SPEC NO.	P36G4717			FRAME	364T
HP	40//30	PHASE	3	DESIGN	B	TYPE	P		
RPM	1180//985	HZ	60//50	AMB	40	SF		1.00	
VOLTS	230/460//190/380	DUTY	CONT			INSUL.CLASS	F		
AMPS	94.4/47.2//86.6/43.3			ENCL	TEFC	CODE	F		
DRIVE END BEARING	65BC03JPP30A			NEMA-NOM-EFFICIENCY	94.1				
OPP D.E. BEARING	65BC03JPP30A								
SER.NO.			SUIT FOR 208V @ 105 AMPS						
								MOTOR WEIGHT	

REL. S.O.

FRAME 364T

HP 40

TYPE P

PHASE/HERTZ 3/60

RPM 1180

VOLTS 230/460

AMPS 94.4/47.2

DUTY CONT

AMB °C/INSUL 40/F

S.F. 1.00

NEMA DESIGN B

CODE LETTER F

ENCLOSURE TEFC

E/S 491521

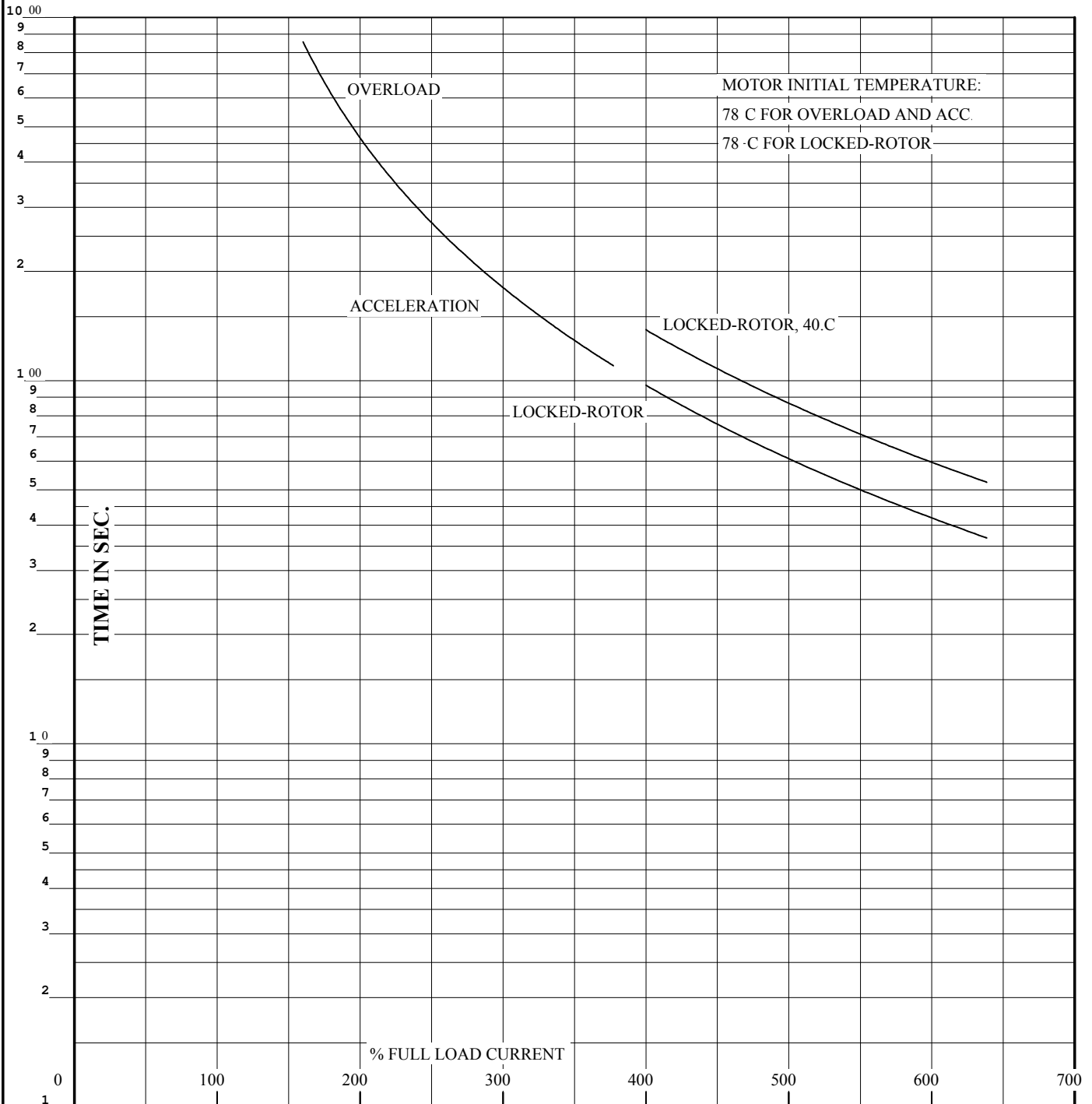
ROTOR 418141083BE

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25 °C .0460/.184

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

NEMA PREMIUM - 94.1 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 E.J. CHRISTIAN
DATE 08/27/10

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0791-R002

ISSUE DATE 03/17/17 Page 6 of 10

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364T	40	P	3/60	1180	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
94.4/47.2	CONT	40/F	1.00	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
491521	418141083BE	---	---	.0460/.184		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	15.6	1200	4.89	0	
1/4	10.0	19.2	1196	53.5	91.6	
2/4	20.0	26.9	1192	74.0	94.1	
3/4	30.0	36.6	1187	81.5	94.3	
4/4	40.0	47.4	1183	84.3	93.7	
5/4	50.0	59.5	1177	84.8	92.9	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	179	317	275	
PULL UP		420	143	253	247	
BREAKDOWN		1121	222	394	150	
FULL LOAD		1183	100	178	47.4	
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 - 94.1 PCT NOMINAL EFFICIENCY						
		DR. BY W. L. SMITH		A-C MOTOR PERFORMANCE DATA A36WG0791-R002 ISSUE DATE 03/17/17		
		CK. BY J. J. HARRISON				
		APP. BY E. J. CHRISTIAN				
		DATE 08/27/10				

REL S.O.

RPM 1180

S.F. 1.00

ROTOR 418141083BE

FRAME 364T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 40

AMPS 94.4/47.2

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

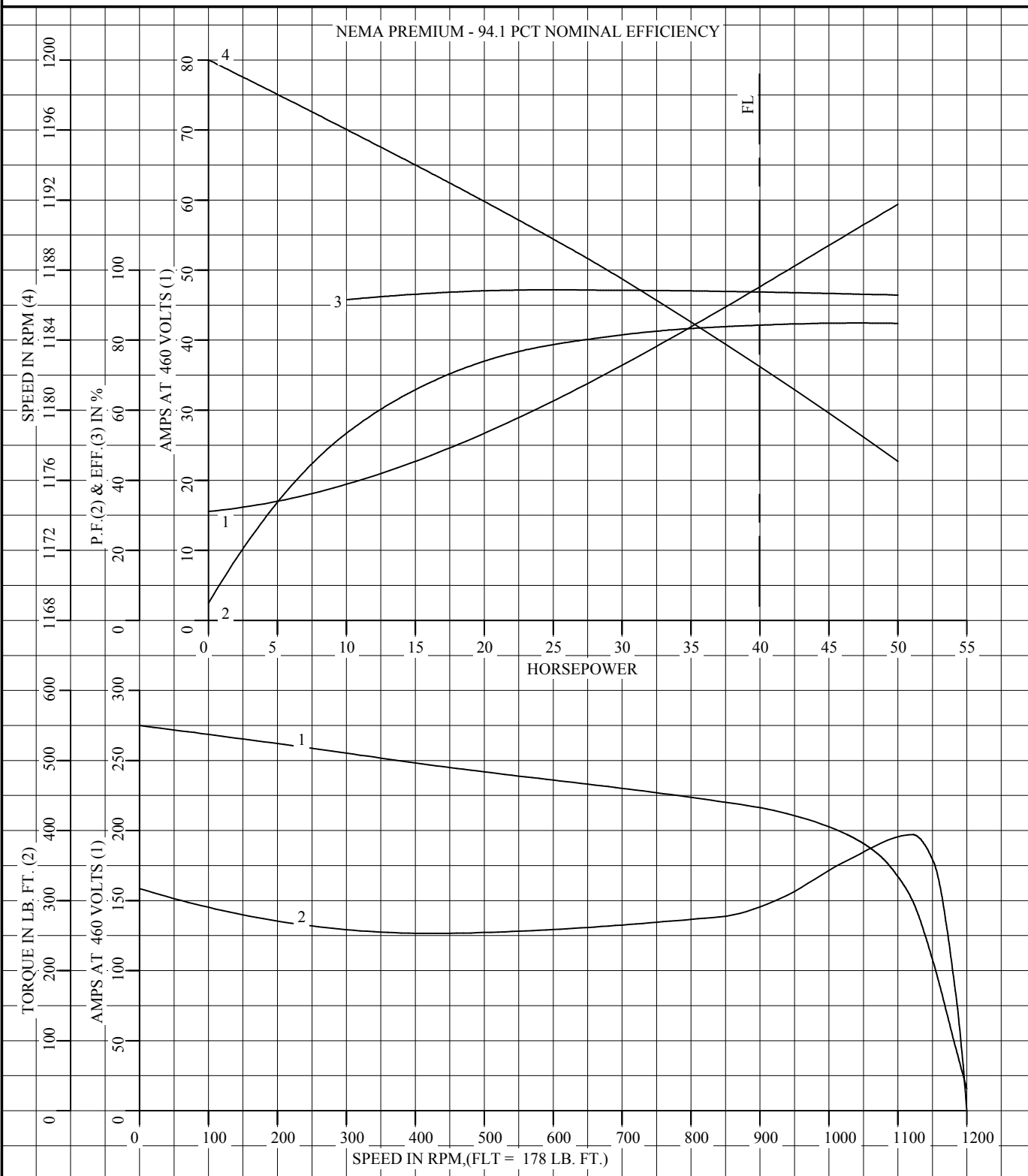
STATOR RES. @ 25 °C .0460/.184

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 491521

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**

A36WG0791-R002

ISSUE DATE 03/17/17

Page 8 of 10

611742-983-SH1

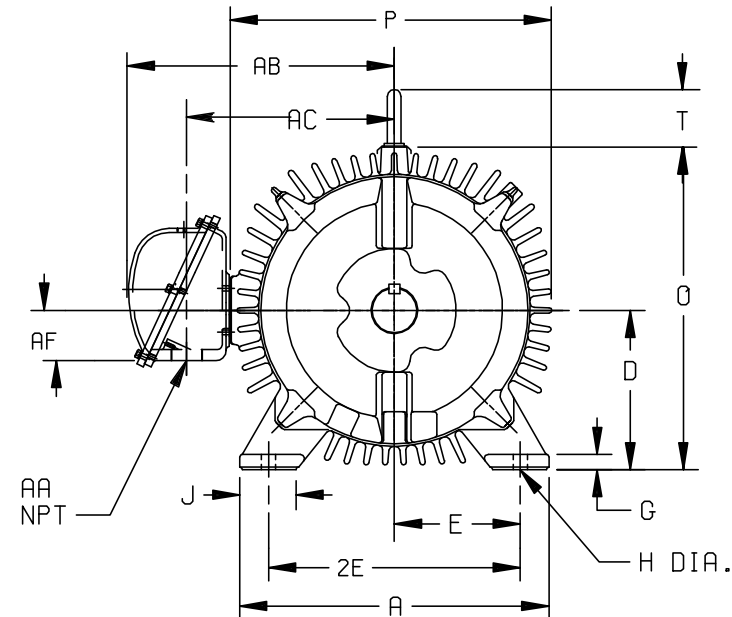
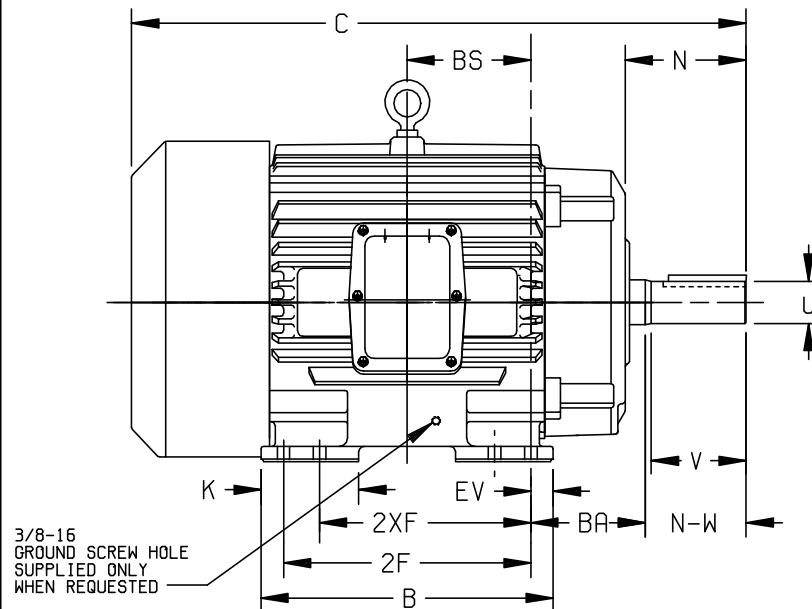
DUTY MASTER ALTERNATING CURRENT MOTORS

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

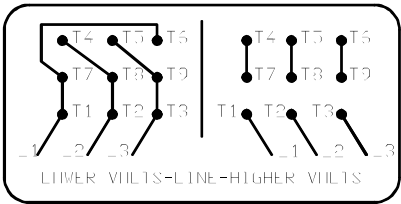
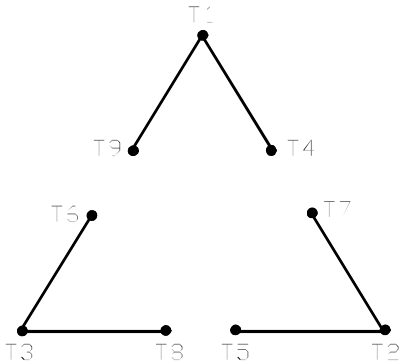
DIM SHT FCXP FT E360T BOLTED ON C/B W/2-1/2"NPT

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: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
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BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

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