

ABB BALDOR RELIANCE III

Customer information packet

ECP84313T-5

75HP, 3555RPM, 3PH, 60HZ, 365TS, A36068M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	365TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR 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	15-60
Current @ Voltage	64.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	64.5 a
Insulation Class	F

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0384
Layout	617428-510
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	02
Leads	3#4
Proprietary	False
Created date	11-27-2018

Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	None
Motor Type	A36068M
Mounting Arrangement	F1
No Load Current	12.4 a
Number of Poles	2
Overall Length	31.35 IN
Power Factor	92
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4388																	
CAT #	ECP84313T-5						FR	365TS			IP56						
SPEC	A36-6000-0384						ENCL		TEFC		DES	B					
HZ	60	PH	3	CL	F	HP	75	SF	1.15	PF	92	%	CODE	F			
VOLTS	575					AMPS		64.5									
RPM	3555		MAX RPM			4500	SER										
NEMA NOM. EFF	94.5	%	RATING			40C AMB-CONT											
GUAR MIN. EFF	93.6	%	BRG DE			6313			BRG ODE		6313						
CL I DIV 2 GRPS A,B,C,D						CL I ZONE 2 GRPS				IIA,IIB,IIC			TEMP T		3-200	C	
CT HZ	15-60		VT HZ			0-60											
CHP HZ	60-75		INV TEMP CL					200	C								
								MTR WT		1018	LBS						

NP4333									
CAT #		ECP84313T-5			ROTOR BARS			38	
SPEC		A36-6000-0384			STATOR SLOTS			48	
SER					MAX CORR KVAR			5	
GREASE		POLYREX EM							
ABMA DE BRG		65BC03J30X		ODE	65BC03J30X				
SPACE HEATER LEADS H1-H2:		TIE LIKE NUMBERS			TOGETHER				
MAX. SPACE HEATER TEMP.			C	V		A		W	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365TSC	75	P	3/60	3555	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
64.5	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
892021	418141005TE	---	---	.116		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	12.4	3600	7.78	0	
1/4	18.8	19.5	3589	77.5	92.8	
2/4	37.6	32.6	3579	90.8	95.1	
3/4	56.2	47.9	3568	92.1	95.4	
4/4	75.0	64.6	3556	91.5	95.0	
5/4	93.8	81.8	3543	90.9	94.4	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	218	242	395	
PULL UP		1565	190	210	352	
BREAKDOWN		3395	228	253	207	
FULL LOAD		3556	100	111	64.6	
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 95.0 % GUARANTEED MIN. EFF. 94.5%						
		DR. BY	W. L. SMITH	A-C MOTOR PERFORMANCE DATA		
		CK. BY	G. R. WEBB			
		APP. BY	D. M. BYRD			
		DATE	03/08/02			
				A36WG0384-R001 ISSUE DATE 07/28/17		

REL S.O.

RPM 3555

S.F. 1.15

ROTOR 418141005TE

FRAME 365TSC

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 64.5

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

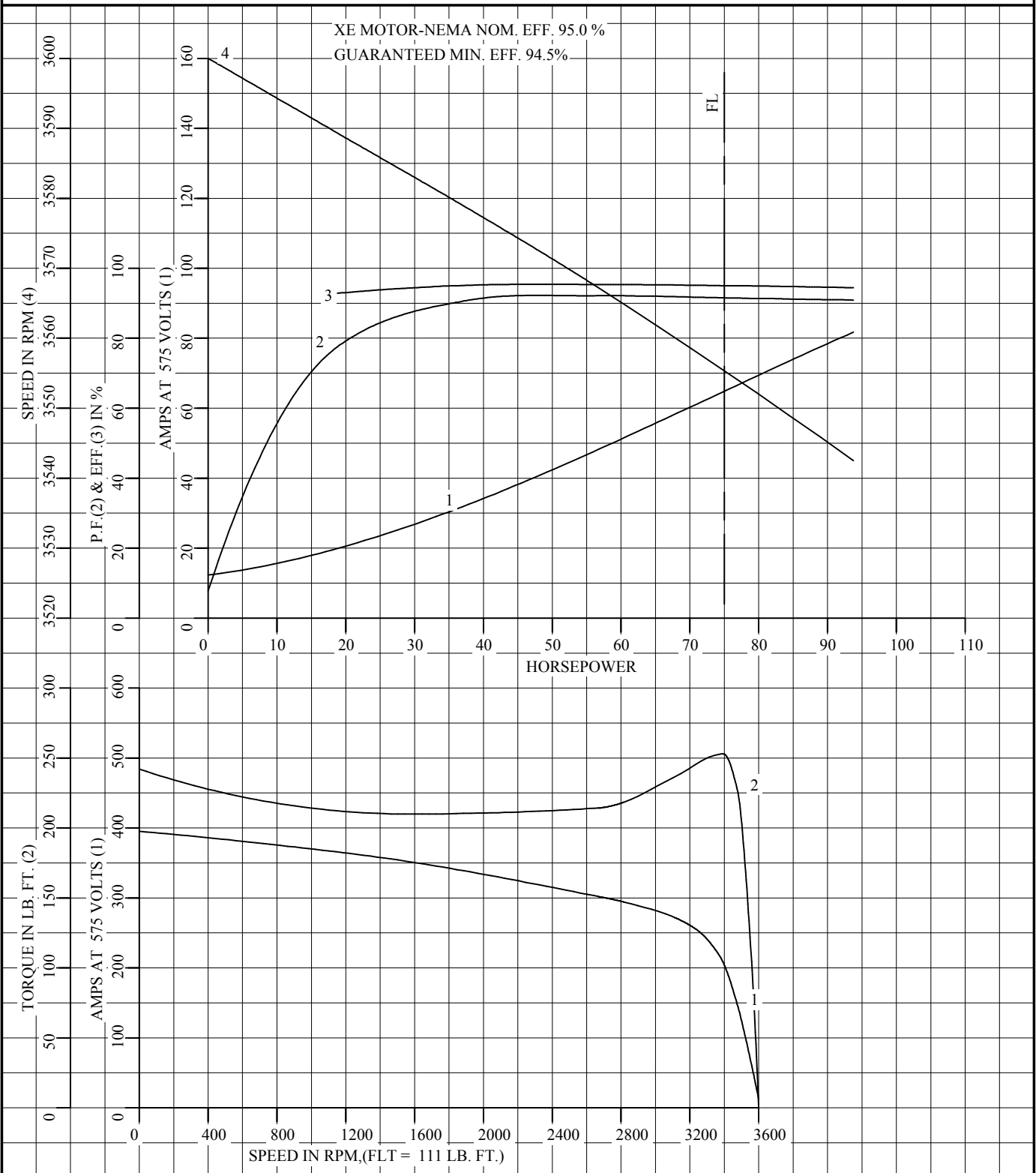
STATOR RES. @ 25 °C .116

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892021

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 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 G. R. WEBB
APP. BY D. M. BYRD
DATE 03/08/02

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0384-R001

ISSUE DATE 07/28/17 Page 7 of 10

REL. S.O.

FRAME 365TSC

HP 75

TYPE P

PHASE/HERTZ 3/60

RPM 3555

VOLTS 575

AMPS 64.5

DUTY CONT

AMB °C/INSUL 40/F

S.F. 1.15

NEMA DESIGN B

CODE LETTER F

ENCLOSURE TEFC

E/S 892021

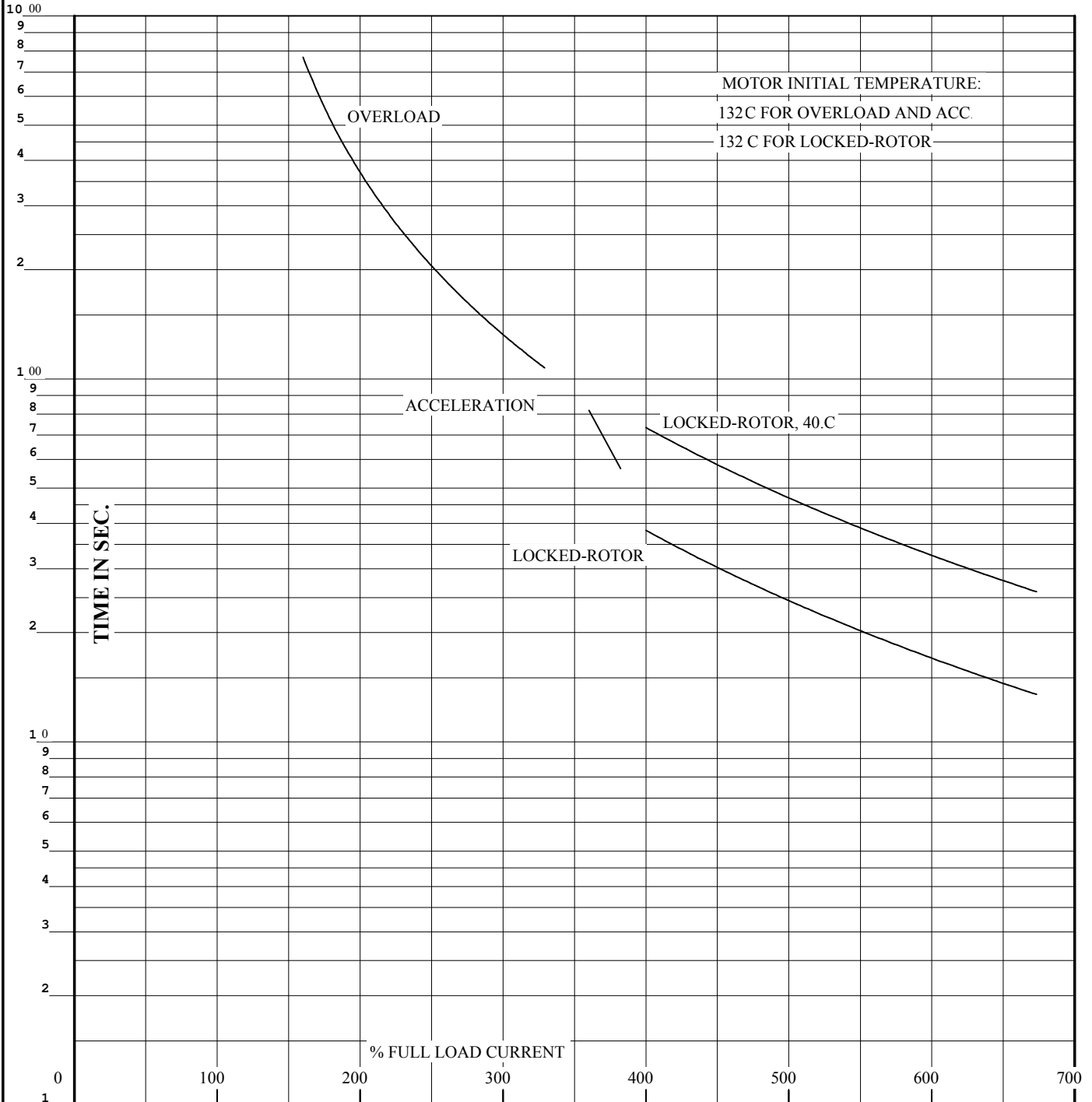
ROTOR 418141005TE

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25 °C .116

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 95.0 %

GUARANTEED MIN. EFF. 94.5%

AMPERES SHOWN FOR 575 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 G. R. WEBB
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DATE 03/08/02

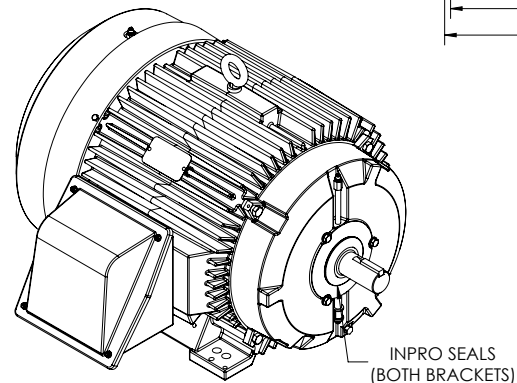
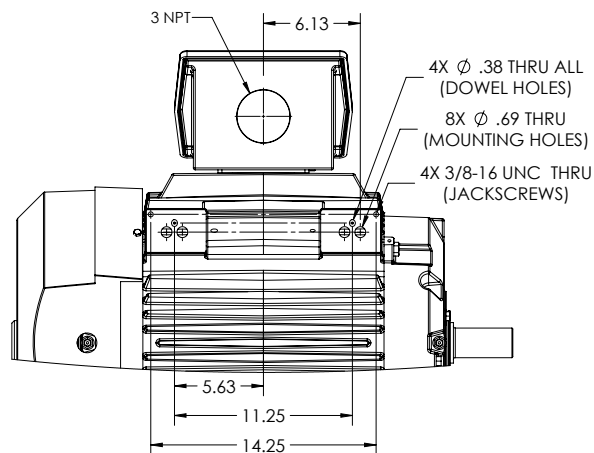
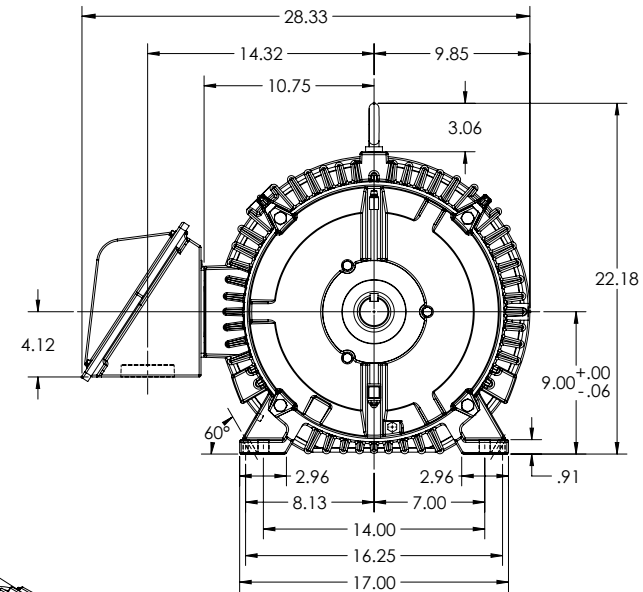
**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0384-R001

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617428-510

ENCLOSURE ENHANCEMENT: 841-XL



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

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: B	VERSION: 02	REVISED: 08:14:18 10/04/2022	TDR: 000001196512
MODEL NO. 617428-510			
BY: ENFRAJ0			

BALDOR

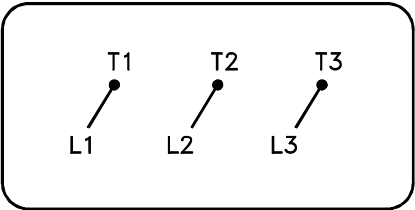
E365/364TS TEFC FOOT F1/CI BOX/INPROS/DOWELS & JACKSCREWS

617428-510

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .0015" T.I.R.

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682	REVISED: 11: 54: 06 04/30/2010	
MTL: -	BY: RAGRA	

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1