

ABB BALDOR RELIANCE III

Customer information packet

CECP4402T-4

100HP, 3565RPM, 3PH, 60HZ, 405TSC, A40060M, TE

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	405TSC
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	110.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	110.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0061
Layout	617429-504
Eff. date	07-09-2025
CD Diagram	416820-036
Poles	02
Leads	3#2
Proprietary	False
Created date	07-22-2014

Motor Standards	NEMA
Motor Type	A40060M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.04 IN
Power Factor	90
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3565 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238													
CAT NO	CECP4402T-4				SPEC NO.		A40-6174-0061						
HP	100	AMPS	110	VOLTS		460		DESIGN	B				
FRAME	405TSC	RPM	3565	HZ	60	AMB	40	SF	1.15				
D.E. BRG.DATA	6313	O.D.E. BRG.DATA			6313	PH	3	DUTY	CONT	INSUL.CLASS	F		
D.E. BRG.	65BC03J30X			TYPE	P	ENCL	TEFC	CODE	F				
O.D.E. BRG.	65BC03J30X			POWER FACTOR			90	NEMA NOM EFFICIENCY			95		
3/4 LOAD EFF.	95.1	MAX CORR KVAR			10.0	GUARANTEED EFFICIENCY			94.1				
TEMP CODE	T3	TEMP =		200									
CHP HZ	60-75	CT HZ	6-60	VT HZ		6-60							
INVERTER-TEMP-CODE	T3												
SER.NO.					MOTOR WEIGHT								

REL. S.O.

RPM **3565**

S.F. **1.15**

ROTOR **418142005PE**

FRAME **405TS**

VOLTS **460**

NEMA DESIGN **B**

TEST S.O. **TYPICAL DATA**

HP **100**

AMPS **110**

CODE LETTER **F**

TEST DATE **---**

TYPE **P**

DUTY **CONT**

ENCLOSURE **TEFC**

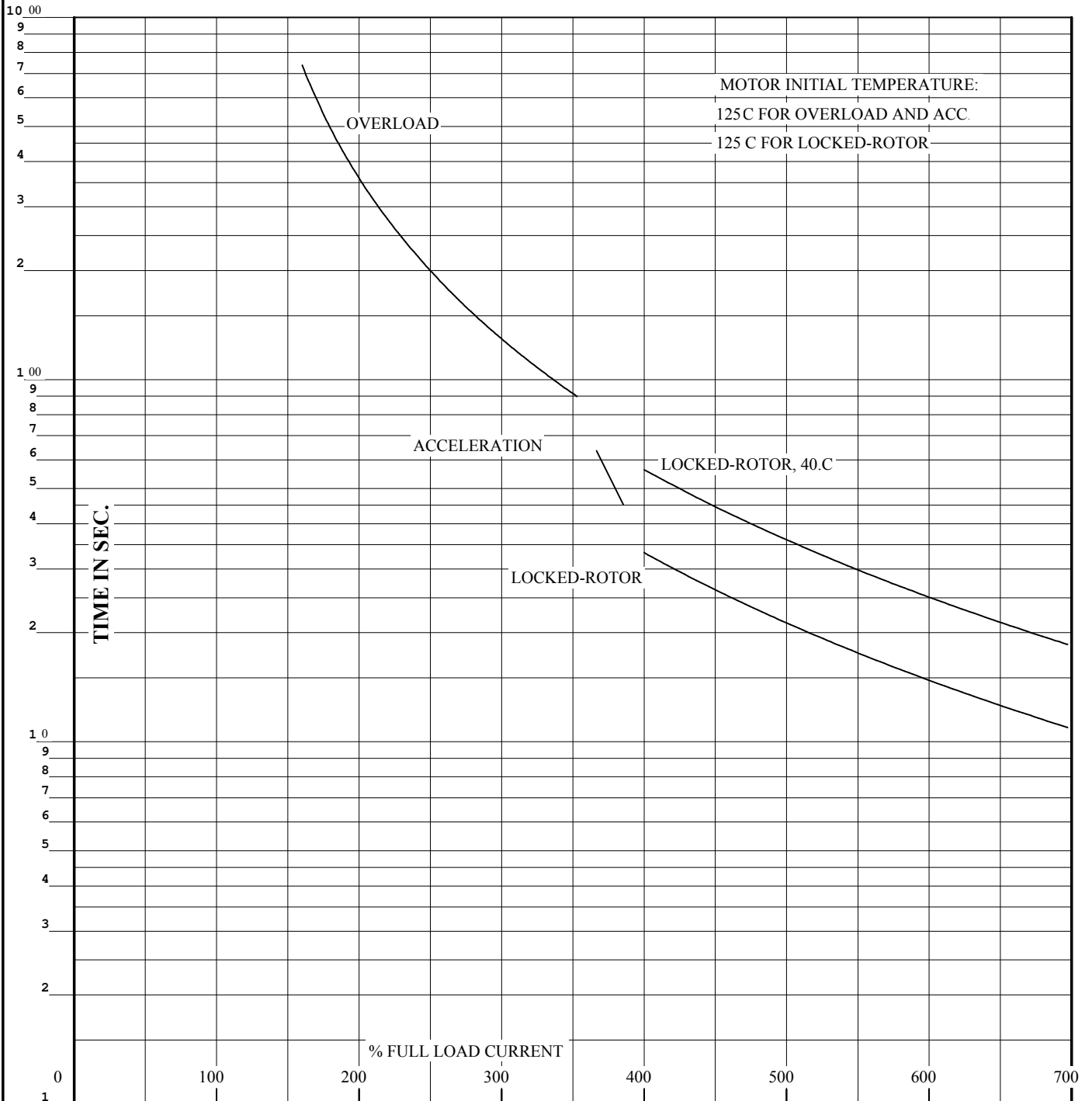
STATOR RES. @ 25 °C **.0526**

PHASE/HERTZ **3/60**

AMB °C/INSUL **40/F**

E/S **596930**

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.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH
CK. BY G. R. WEBB
APP. BY D. M. BYRD
DATE 01/23/02
**A-C MOTOR
PERFORMANCE
CURVES**
A40WG0061-R001

ISSUE DATE 03/04/2014 Page 5 of 10

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	405TS	100	P	3/60	3565	460		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
110	CONT	40/F	1.15	B	F	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
596930	418142005PE	---	---	.0526				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	25.6	3600	7.57	0			
1/4	25.0	36.7	3591	69.7	91.7			
2/4	50.0	57.7	3582	85.8	94.6			
3/4	75.1	82.7	3572	89.3	95.1			
4/4	100	110	3563	89.9	95.0			
5/4	125	137	3552	90.2	94.6			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	203	299	695			
PULL UP		1545	182	269	632			
BREAKDOWN		3408	256	377	387			
FULL LOAD		3563	100	147	110			
AMPERES SHOWN FOR 460. 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 A40WG0061-R001 ISSUE DATE 03/04/20				
		CK. BY	G. R. WEBB					
		APP. BY	D. M. BYRD					
		DATE	01/23/02					

REL S.O.

RPM 3565

S.F. 1.15

ROTOR 418142005PE

FRAME 405TS

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 100

AMPS 110

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

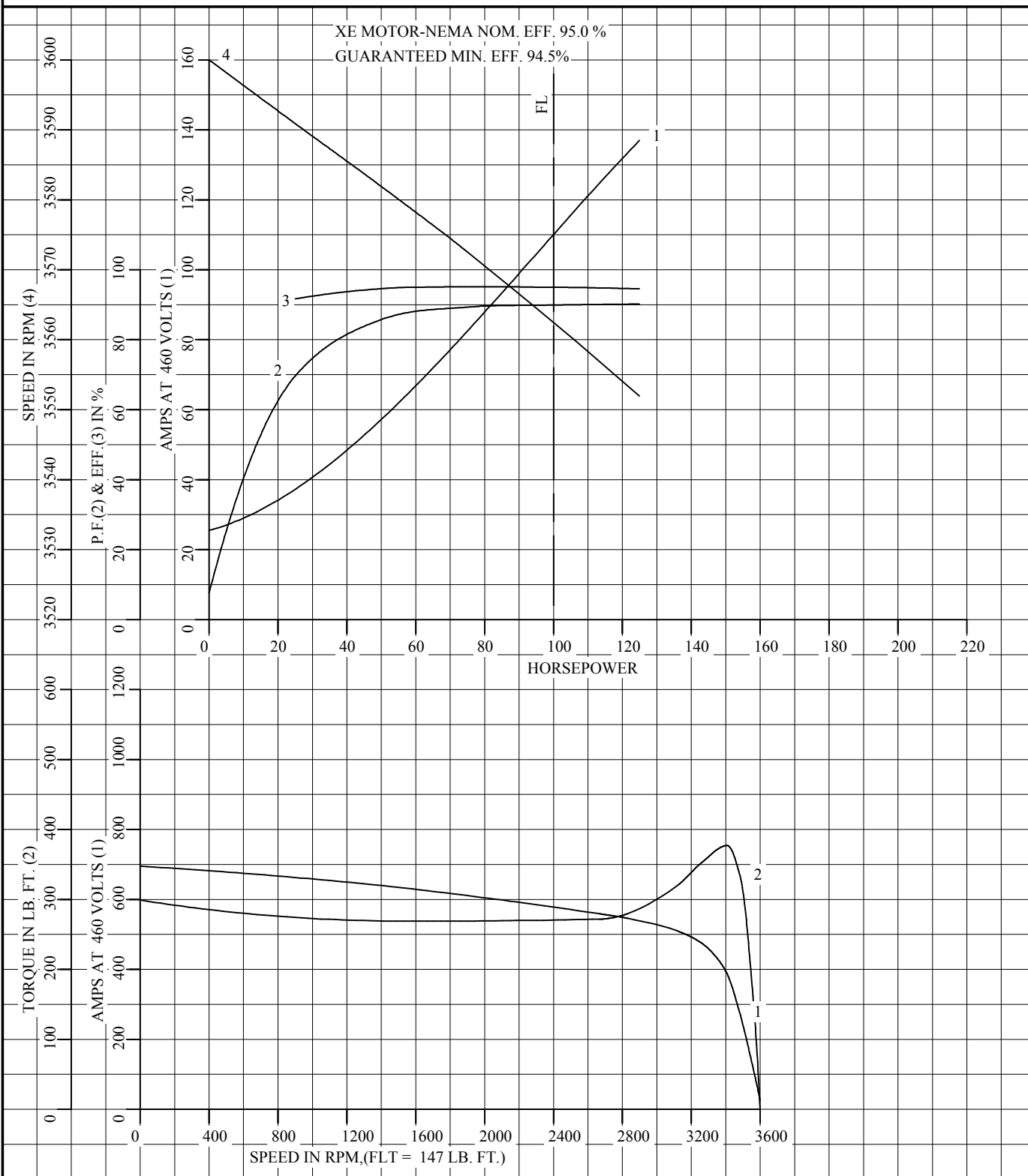
STATOR RES. @ 25 °C .0526

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 596930

OHMS (BETWEEN LINES)



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

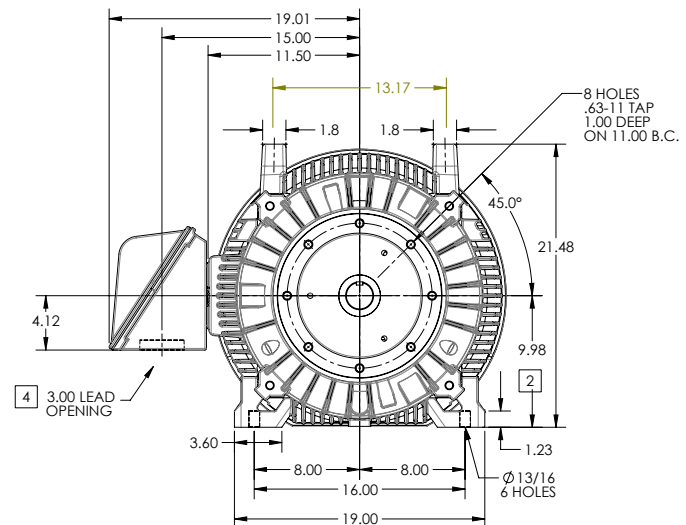
DR. BY W. L. SMITH
CK. BY G. R. WEBB
APP. BY D. M. BYRD
DATE 01/23/02

**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0061-R001
ISSUE DATE 03/04/2014

SQUIRREL-CAGE INDUCTION

XT/ECP SEVERE DUTY ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00 - .06
3. VARIES +.000 - .001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND
5. CORROSION PROOF MOTOR THIS IS PIPE TAP.
6. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
7. OBSTRUCTION MUST NOT ENCR OACH ON AIR INLET
8. MAX FACE RUNOUT AND FIT ECCENTRICITY = 0.007 T.I.R.

5 WEIGHT (LBS): 1290

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

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

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

REV. DESC: INITIAL RELEASE			
REV: .	VERSION: 00	REVISED: 11-01:44 07/18/2013	TDR: 00000080025
MODEL NO. 617429-504			REF:
BY: MGHJMZ2		Material:	

G405TSC/404TSC STD - FOOTED - XT/ECP SEVERE DUTY ENCLOSURE

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

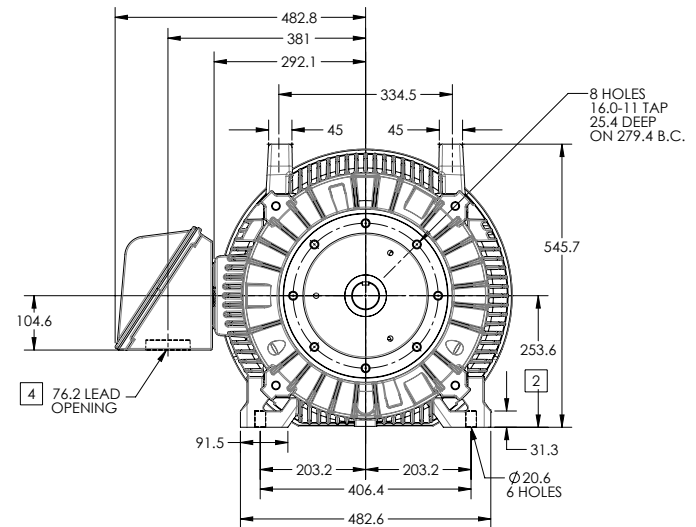
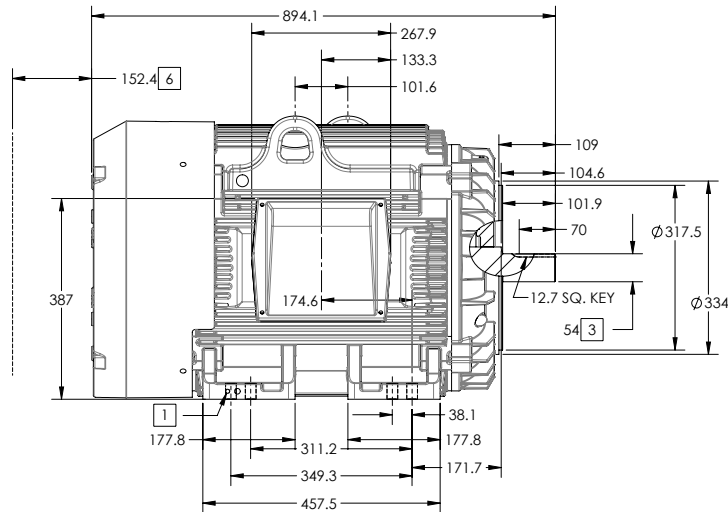
FRAME G405TSC ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404TSC FRAME MOUNTING HOLES

XT/ECP SEVERE DUTY ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +0,-1.5
3. VARIES +.00,-.03
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NOT ENCROACH ON AIR INLET
7. MAX FACE RUNOUT AND FIT ECCENTRICITY = 0.178 T.I.R.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

[5] WEIGHT (KGS): 590

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

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

SHEET NUMBER
2 OF 2

105-672119

REV. DESC: INITIAL RELEASE	VERSION: 00	REVISED: 11-01-44 07/18/2013	TDR: 000000800257
MODEL NO. 617429-504	REF:		
BY: MGHUMZ2	Material:		

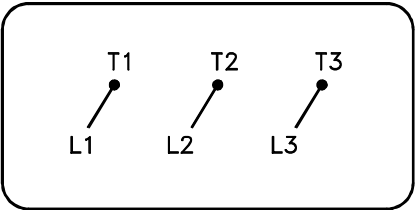
BALDOR

G405TSC/404TSC STD - FOOTED - XT/ECP SEVERE DUTY ENCLOSURE

617429-504

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