



Customer information packet

IDVSM4400T-4

100HP, 1785-2680RPM, 3PH, 60-90HZ, 405T, A400

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	405T
Frame Material	Iron
Frequency	60.00 Hz 90.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 90 HZ 100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 460.0 V @ 90 HZ
Agency Approvals	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	1000:1
Current @ Voltage	112.000 A @ 460.0 V 115.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	112.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L

Part detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0296
Layout	617429-201
Eff. date	09-12-2023
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	07-17-2013

Lifting Lugs	Standard Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	38.04 IN
Power Factor	86
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	No Slinger
Speed	1785 rpm 2680 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007HV

CAT NO	IDVSM4400T-4		SPEC NO.	P40G3932		
SER.NO.			FRAME	405T		
	HP	RPM	VOLTS	AMPS	HZ	TYPE P
BASE	100	1785	460	115	60	SF 1.00
MAX	100	2680	460	112.	90	INSUL.CLASS F
DRIVE END BEARING	80BC03J30X		CONSTANT TORQUE		DUTY	CONT
OPP D.E. BEARING	80BC03J30X		1000:1	ENCL	TEFC	PHASE 3
DESIGN NO.	A40WG0296-R002		FLUX AMPS	37.8		VPWM INVERTER READY
MAX SPEED/RPM	3600		OVERTEMP PROT	2	WK2	26.07
					POLES	4
					WEIGHT	

REL. S. O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 °C)
FRAME	405T	AMPS	115	MAX SAFE RPM	3600	
HP	100	DUTY	CONT	IM (AMPS)	37.8	R1 .0193 X1 .194
BASE SPEED	1785	S.F.	1.0	P.F.@NL/FL	9.5/86.4	R2 .0142 X2 .185
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	WK ² (lb.-ft ²)	26.07	XM 5.85

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1786	100	294	460	60	115
MAX SPEED	2678	100	196	460	90	112
MIN SPEED	0	0	294	9.60	.460	115

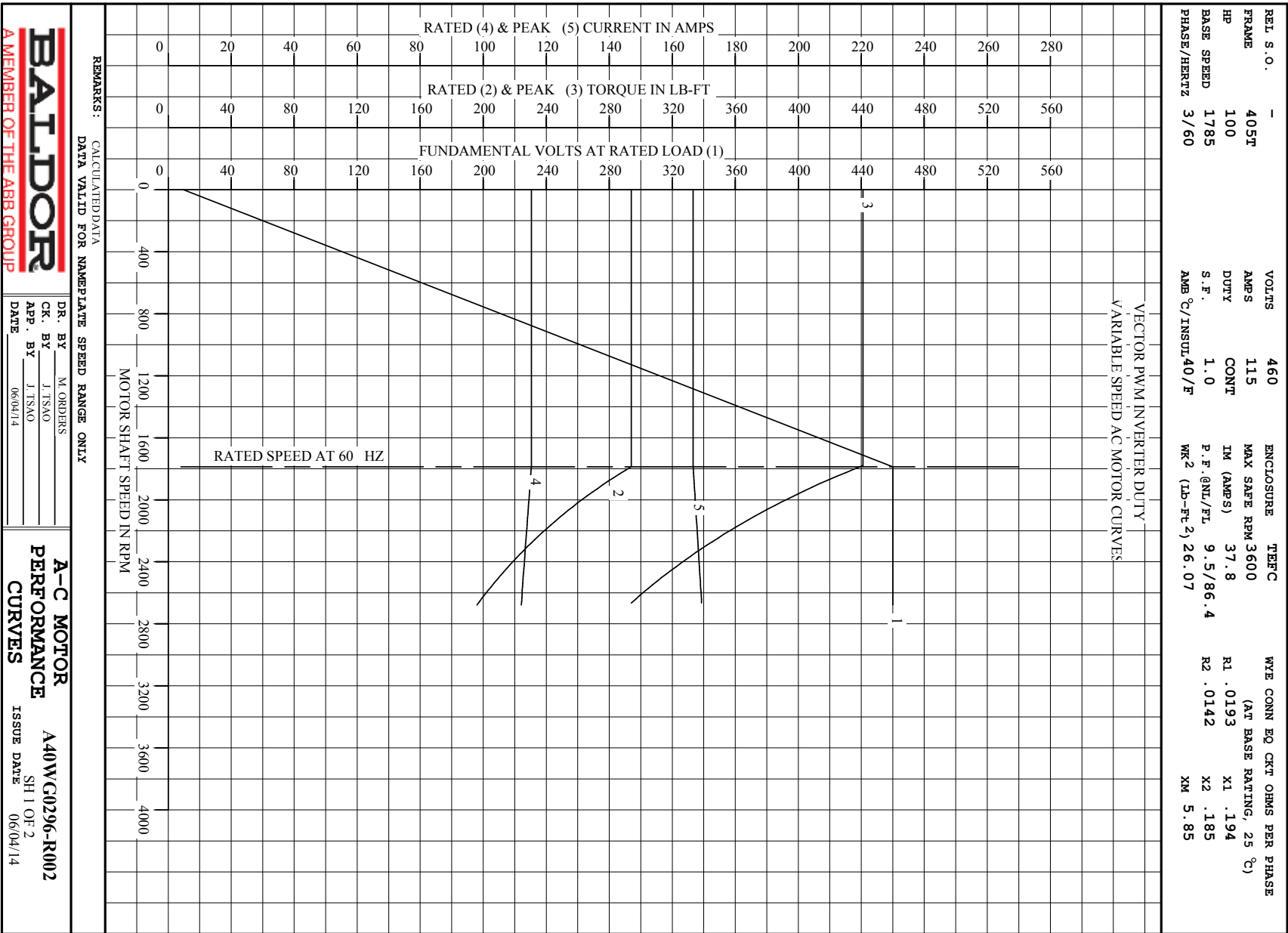
LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	37.8
1/4	1796	25.0	73	460	60	52.9
1/2	1793	50.1	147	460	60	70.5
3/4	1790	75.0	220	460	60	91.5
FULL LOAD	1786	100	294	460	60	115
O/L	1779	149	441	460	60	167

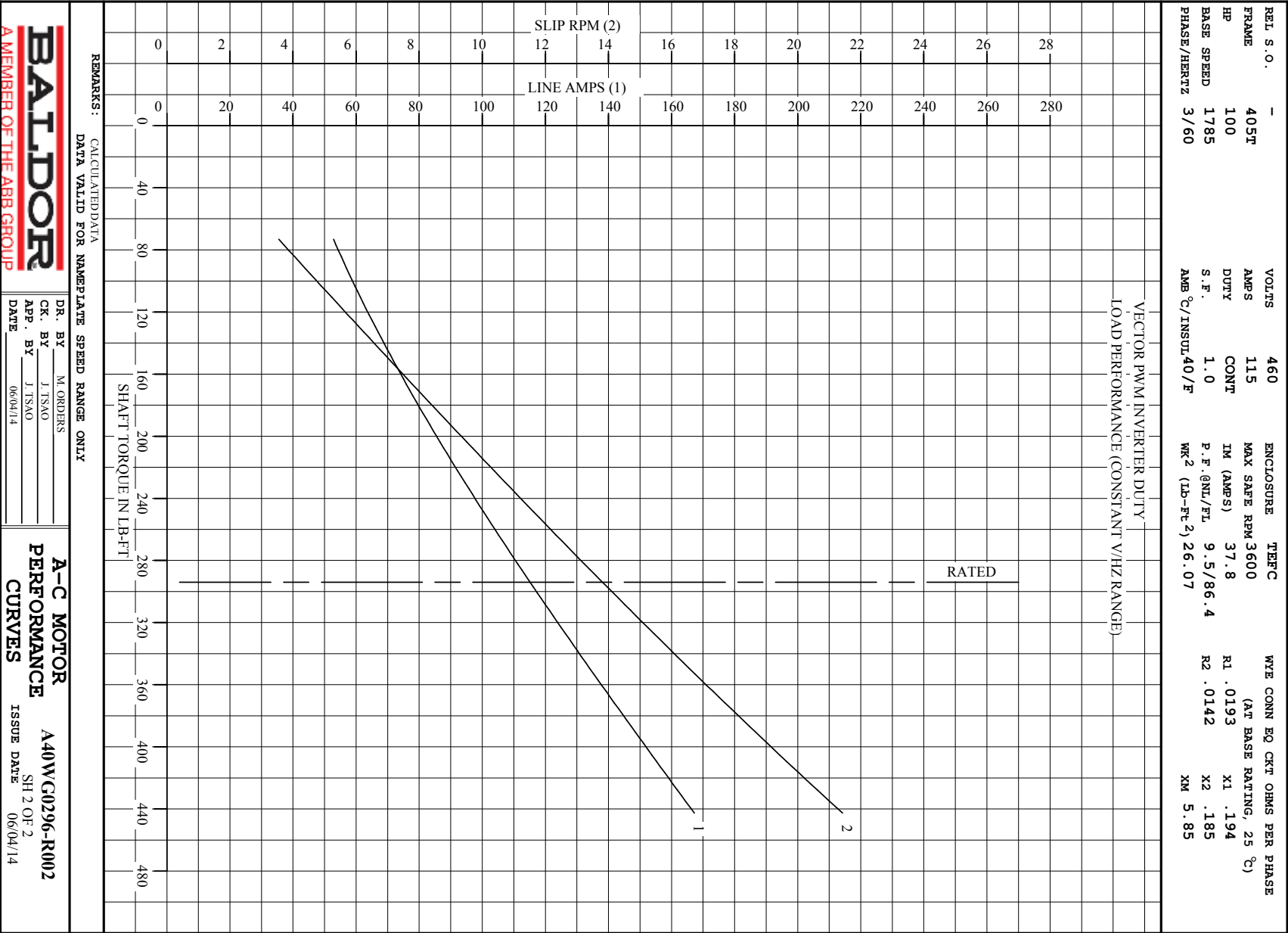
REMARKS: CALCULATED DATA
VECTOR PWM INVERTER DUTY

BALDOR A MEMBER OF THE ABB GROUP	DR. BY	M. ORDERS	A-C MOTOR PERFORMANCE DATA A40WG0296-R002 ISSUE DATE 06/04/14
	CK. BY	J. TSAO	
	APP. BY	J. TSAO	
	DATE	06/04/14	

C/R 322319



C/R 322319



C/R 322319

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

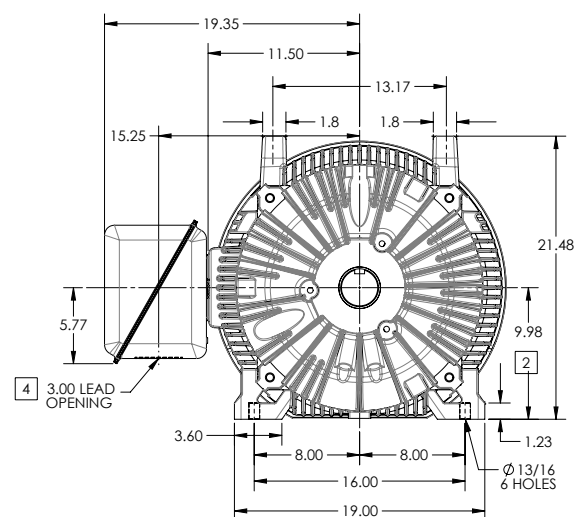
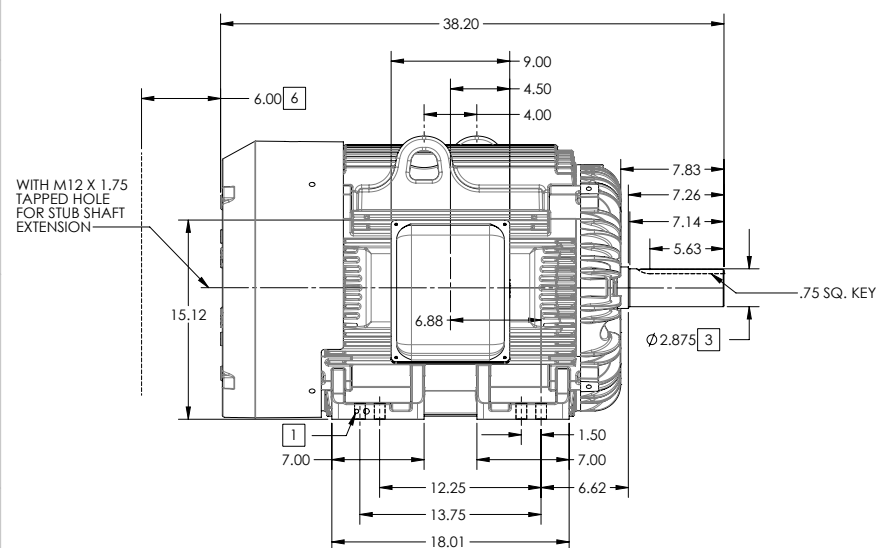
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES

STANDARD INDUSTRIAL/ IDVSM 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 CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NOT ENCR OACH ON AIR INLET

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.

[5] WEIGHT (LBS): 1350

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

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

SHEET NUMBER
1 OF 2

10C-627219

REV. DESC: PUTTING RIGHT SHAFT 616502380RA IN MODEL			
REV: C	VERSION: 03	REVISED: 10-59-13 04/24/2014	TDR: 000000850156
MODEL NO. 617429-201		REF:	
BY: RAGISSI		Material:	

BALDOR

G405T/404T STD - FOOTED - STANDARD INDUSTRIAL/IDVSM ENCLOSURE

617429-201

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

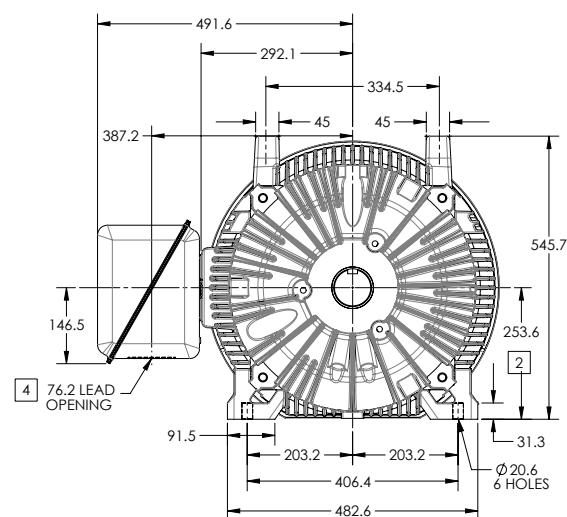
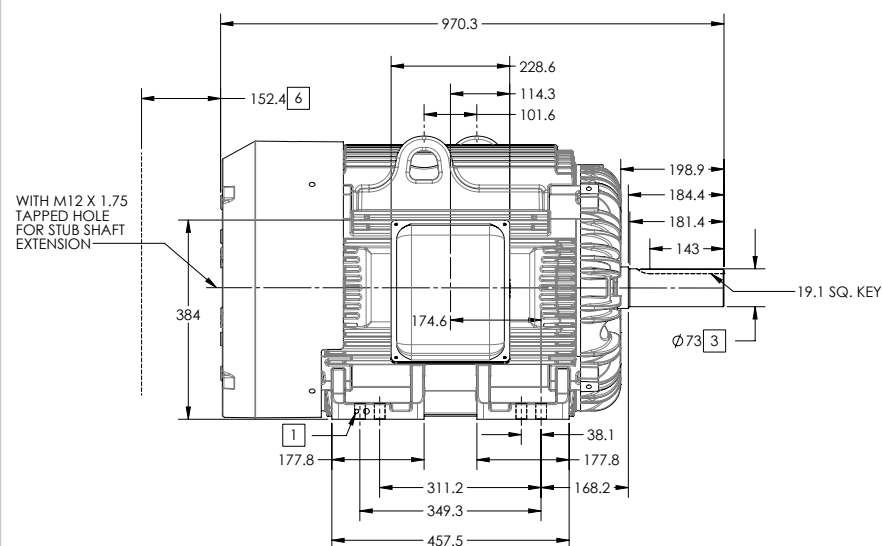
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES

STANDARD INDUSTRIAL/IDVSM 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 ENCR OACH ON AIR INLET

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): 620

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

10C-627219

REV. DESC: PUTTING RIGHT SHAFT 616502380RA IN MODEL	
REV: C VERSION: 03	REVISED: 10-59-13 04/24/2014
MODEL NO. 617429-201	TDR: 000000850156
BY: RAGISSI	REF:
Material:	

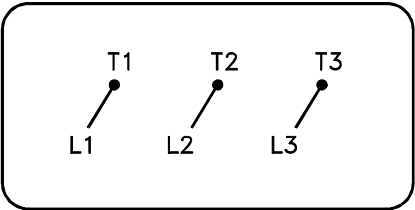
BALDOR

G405T/404T STD - FOOTED - STANDARD INDUSTRIAL/IDVSM ENCLOSURE

617429-201

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			BALDOR CONN DIAG - STANDARD 3 LEAD SH 1 of 1
REV. LTR: -	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010	
MTL: -		BY: RAGRA	