

BALDOR® • RELIANCE

Product Information Packet

EM4400TS

100HP,1785RPM,3PH,60HZ,405TS,A40064M,TEF

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A40064M	Elec. Spec:	A40WG0692	CD Diagram:	416820-002
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	617429-002
Frame:	405TS	Mounting:	F1	Poles:	04	Created Date:	07-17-2013
Base:		Rotation:	R	Insulation:	B	Eff. Date:	09-26-2016
Leads:	3#2,6#4					Replaced By:	
Literature:		Elec. Diagram:					

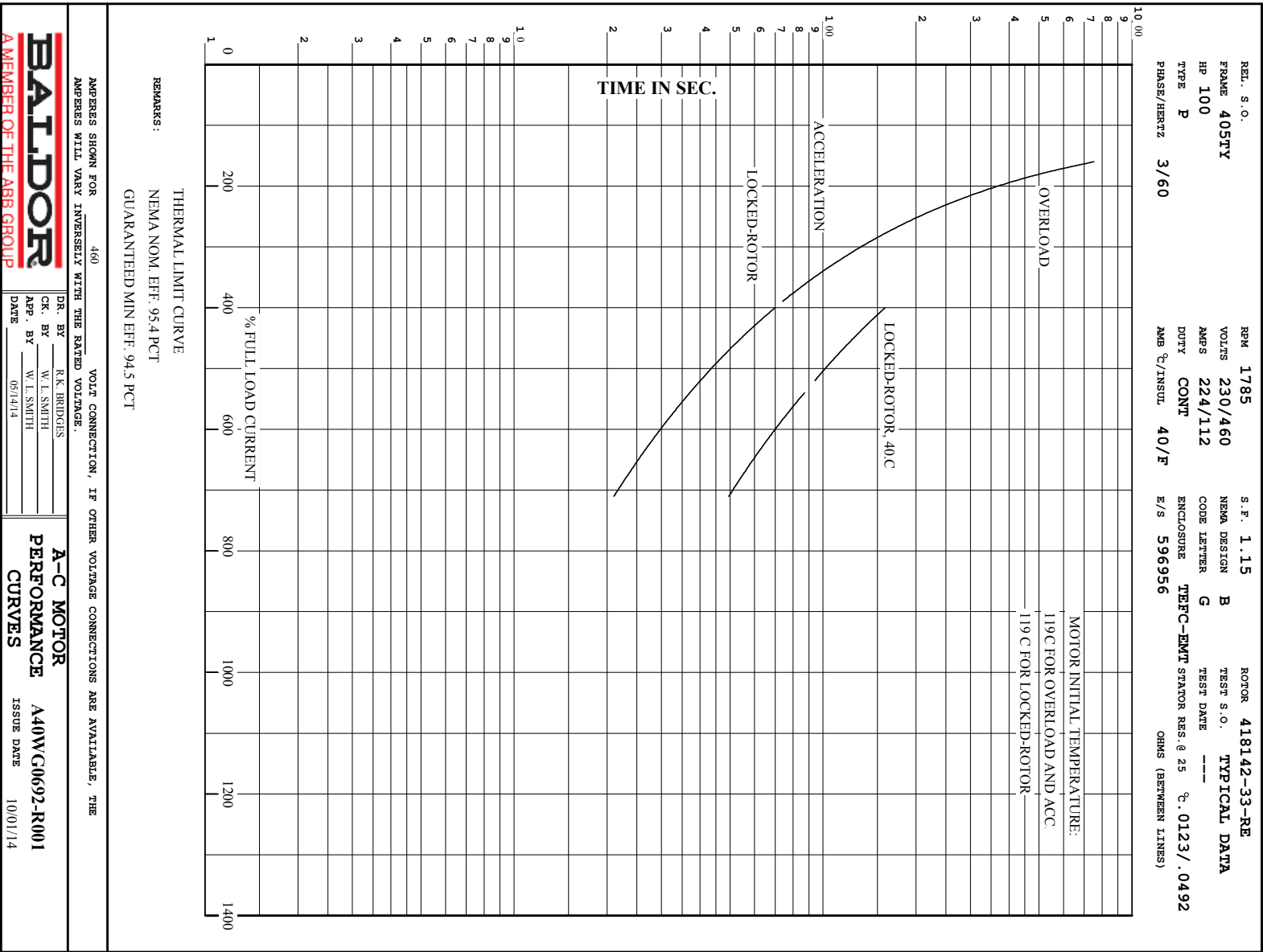
Nameplate NP2383L

CAT.NO.	EM4400TS	SPEC NO.	P40G3928
HP	100	AMPS	224/112
VOLTS	230/460	DESIGN	B
FRAME	405TS	RPM	1785
HZ	60	AMB	40
SF	1.15	INSUL.CLASS	F
DRIVE END BEARING	80BC03J30X	PHASE	3
DUTY	CONT	TYPE	P
OPP D.E. BEARING	80BC03J30X	ENCL	TEFC
CODE	G	POWER FACTOR	87
SER.NO.		NEMA-NOM-EFFICIENCY	95.4
		MAX CORR KVAR	18
		GUARANTEED EFFICIENCY	94.5
NEMA NOM/CSA QUOTED EFF		MOTOR WEIGHT	1326

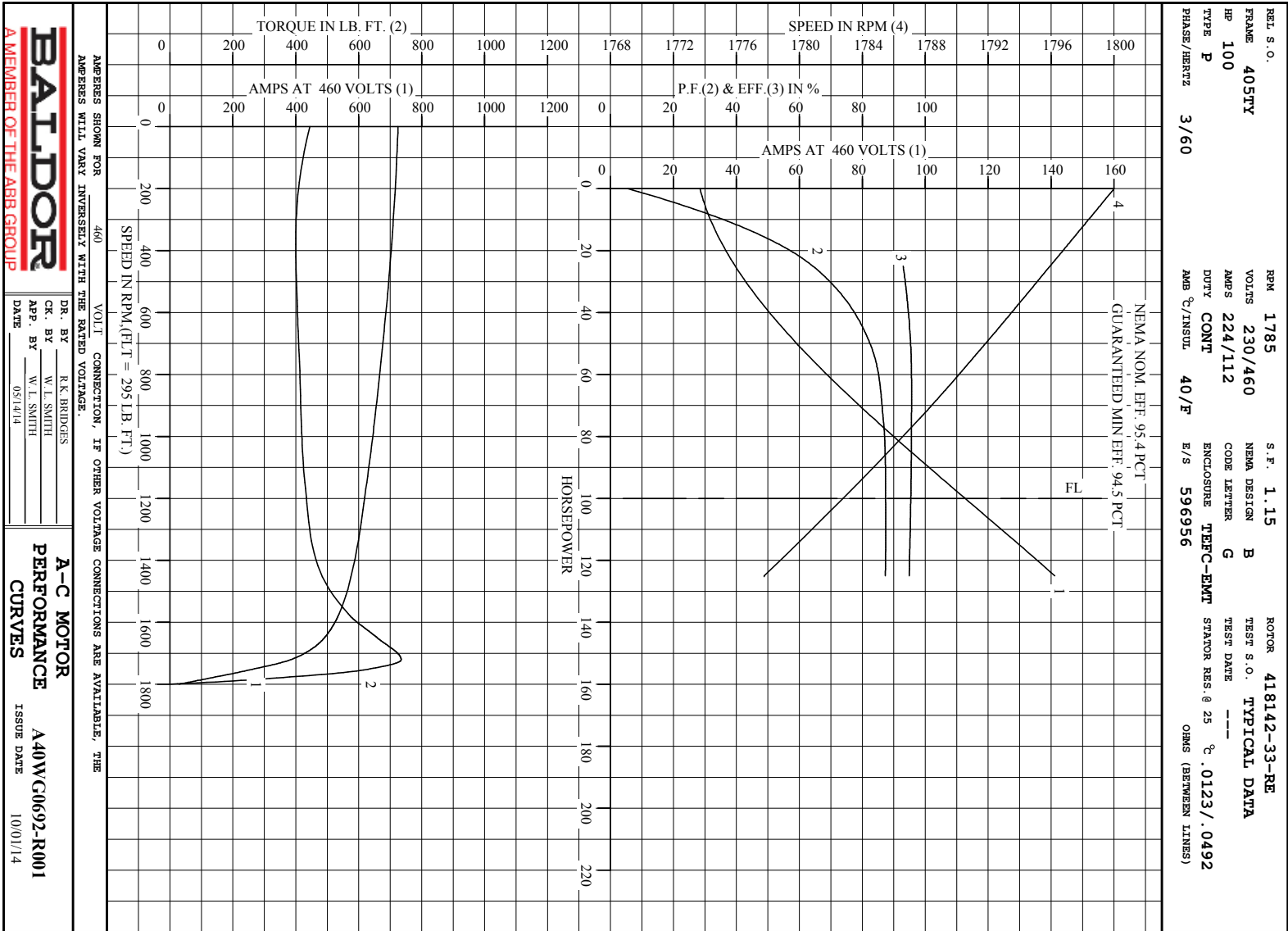
Parts List		
Part Number	Description	Quantity
SA267717	SA P40G3928	1.000 EA
RA254387	RA P40G3928	1.000 EA
421948032	LABEL, MYLAR	1.000 EA
000692000FF	N/P	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
NP2383L	SUPER-E ,SS, CC, CSA-C US, CSA EEV	1.000 EA
089412501A	BRKT FTMT G400 FIN MACH 6316 89412500WCA	1.000 EA
415072001B	CLAMP	1.000 EA
083198101A	G400 STD FAN COVER MACHINING	1.000 EA
034692005AA	P PLUG 3/4"BLK.	1.000 EA
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 EA
078548001R	FAN KB 234/150 (84) 400	1.000 EA
004824015A	GREASE POLYREX EM	0.880 LB
032018020EK	HHCS 5/8-11X2-1/2 PLTD.	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
410700000DA	WAVY SPRING WASHER	1.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
034530052AB	P/NIP 1/8X6-1/2 GALV.	1.000 EA
034530056BB	P/NIP 1/4X7 SCHED 40	1.000 EA
034690001AB	SQHDPLG, COND	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
034690001AB	SQHDPLG, COND	1.000 EA
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 EA
034690001AB	SQHDPLG, COND	1.000 EA
034690002AB	"unbulked" PPLG 1/4" PLTD.	1.000 EA
089412501A	BRKT FTMT G400 FIN MACH 6316 89412500WCA	1.000 EA
032018020EK	HHCS 5/8-11X2-1/2 PLTD.	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA
077176000L	C/BOX, PAINTED 360-400	1.000 EA
077176001A	CBOXC, PAINTED 360-400	1.000 EA
043292000AJ	GASK 320-400	1.000 EA
402731001A	GASK 360-440	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.375 GA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180022GA	KEY 1/2X1/2X2-3/4 L	1.000 EA
PK5004A02	WOOD BASE 40X32 STACK 2X4 RUNNER	1.000 EA

Accessories		
Part Number	Description	Multiplier
K40G71	C-FACE KIT G400 4/6/8 POLES	A8
089412054B	D-FLANGE BRKT 400 089416055WCB	P1



REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405TY	100	P	3/60	1785	230/460
AMPS	DUTY	AMB ^{°C} / INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
224/112	CONT	40/F	1.15	B	G	TEFC-EMT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 ^{°C} OHMS (BETWEEN LINES)		
596956	418142-33-RE	---	---	.0123/.0492		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	% EFFICIENCY	
NO LOAD	0	28.6	1800	5.49	0	
1/4	25.0	39.2	1796	64.3	93.0	
2/4	50.0	59.5	1792	82.5	95.4	
3/4	75.0	84.6	1788	86.7	95.7	
4/4	100	112	1783	87.4	95.4	
5/4	125	141	1778	87.3	94.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	151	445	725		
PULL UP	360	136	400	706		
BREAKDOWN	1721	250	735	382		
FULL LOAD	1783	100	295	112		
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 NOM. EFF. 95.4 PCT GUARANTEED MIN EFF. 94.5 PCT						
BALDOR A MEMBER OF THE ABB GROUP		DR. BY R.K. BRIDGES CK. BY W.L. SMITH APP. BY W.L. SMITH DATE 05/14/14		A-C MOTOR PERFORMANCE DATA A40WG0692-R001 ISSUE DATE 10/01/14		



DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

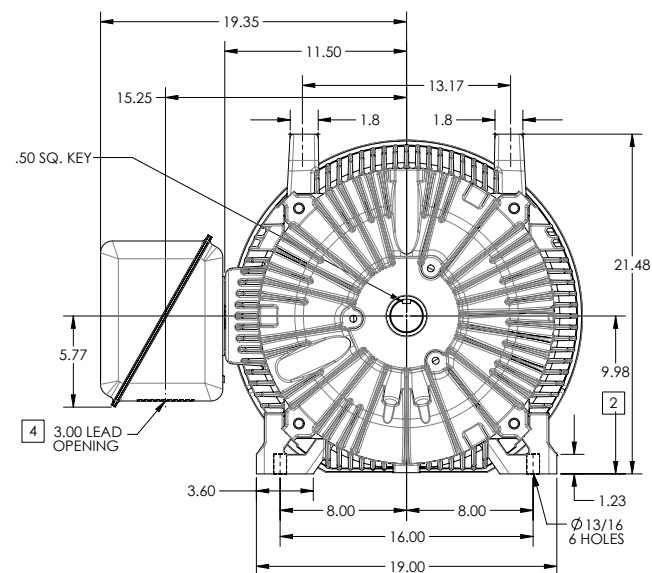
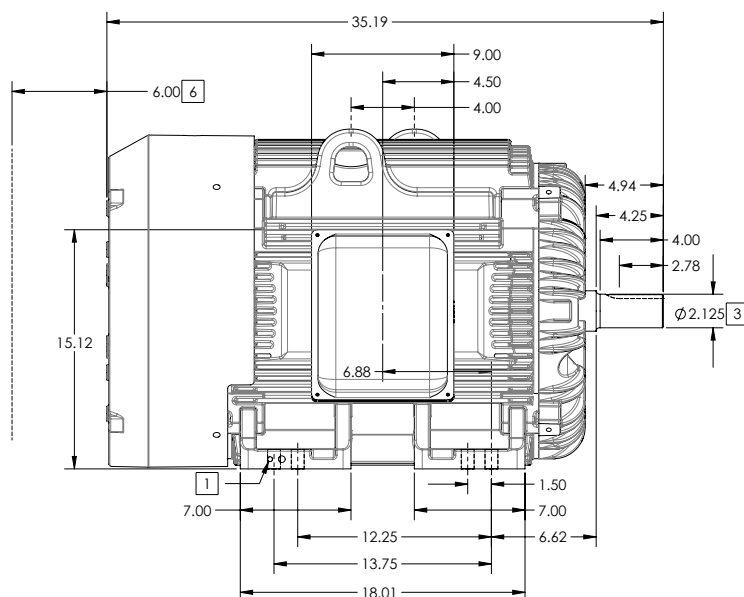
FRAME G405TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404TS FRAME MOUNTING HOLES

STANDARD INDUSTRIAL ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.00,-.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): 1160

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

000-627-119

REV. DESC: CHANGE BA FROM 6.76 TO 6.62			
REV: B	VERSION: 02	REVISED: 04/37/41 04/14/2014	TDR: 000000848770
MODEL NO. 617429-002		REF:	
BY: MGHUMZ2		Material:	

BALDOR

G405TS/404TS STD - FOOTED - STANDARD ENCLOSURE

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

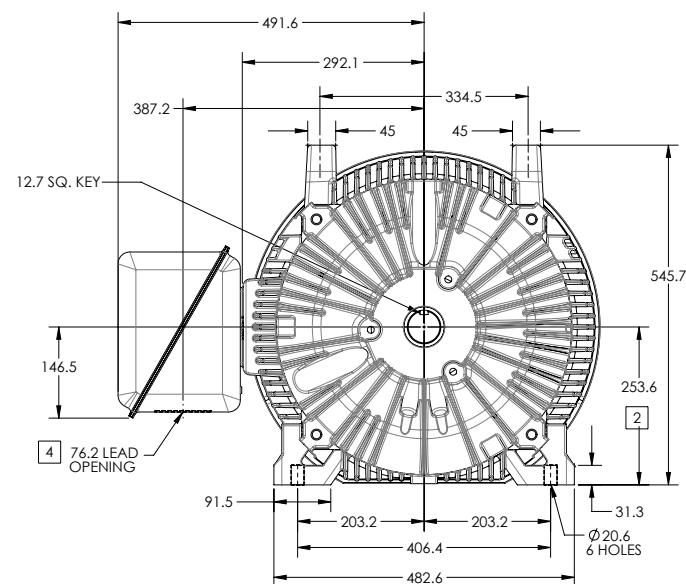
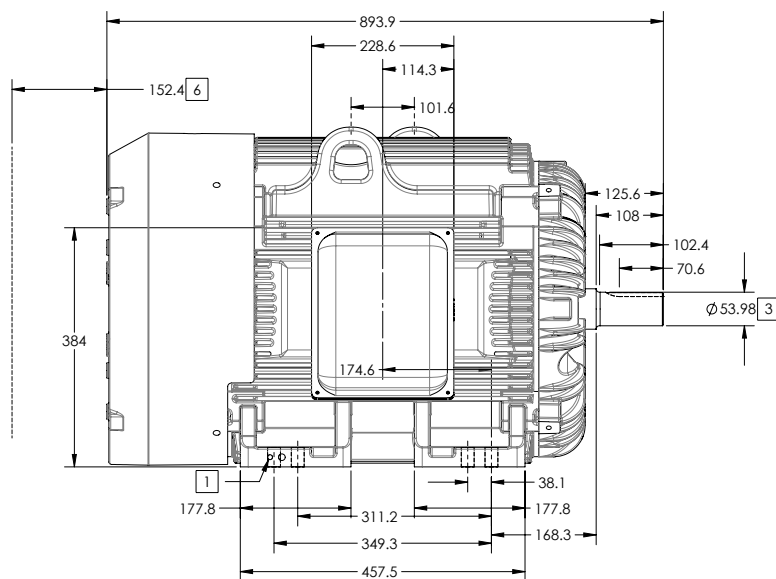
FRAME G405TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404TS FRAME MOUNTING HOLES

STANDARD INDUSTRIAL 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

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): 530

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

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

REV. DESC: CHANGE BA FROM 6.76 TO 6.62	TDR: 000000848770
REV: B VERSION: 02	REVISED: 04/37/41 04/14/2014
MODEL NO. 617429-002	REF:
BY: MGHUMZ2	Material:

BALDOR

G405TS/404TS STD - FOOTED - STANDARD ENCLOSURE

SHEET NUMBER
2 OF 2

000-6272119

