

BALDOR® • RELIANCE

Product Information Packet

ECR91004T-4

100HP,1785RPM,3PH,60HZ,405T,A40076M,TEFC

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A40076M	Elec. Spec:	A40WG0454	CD Diagram:	416820-036
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	617429-501
Frame:	405T	Mounting:	F1	Poles:	04	Created Date:	01-31-2015
Base:		Rotation:	R	Insulation:	F	Eff. Date:	09-07-2016
Leads:	3#1					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate 000613007PV

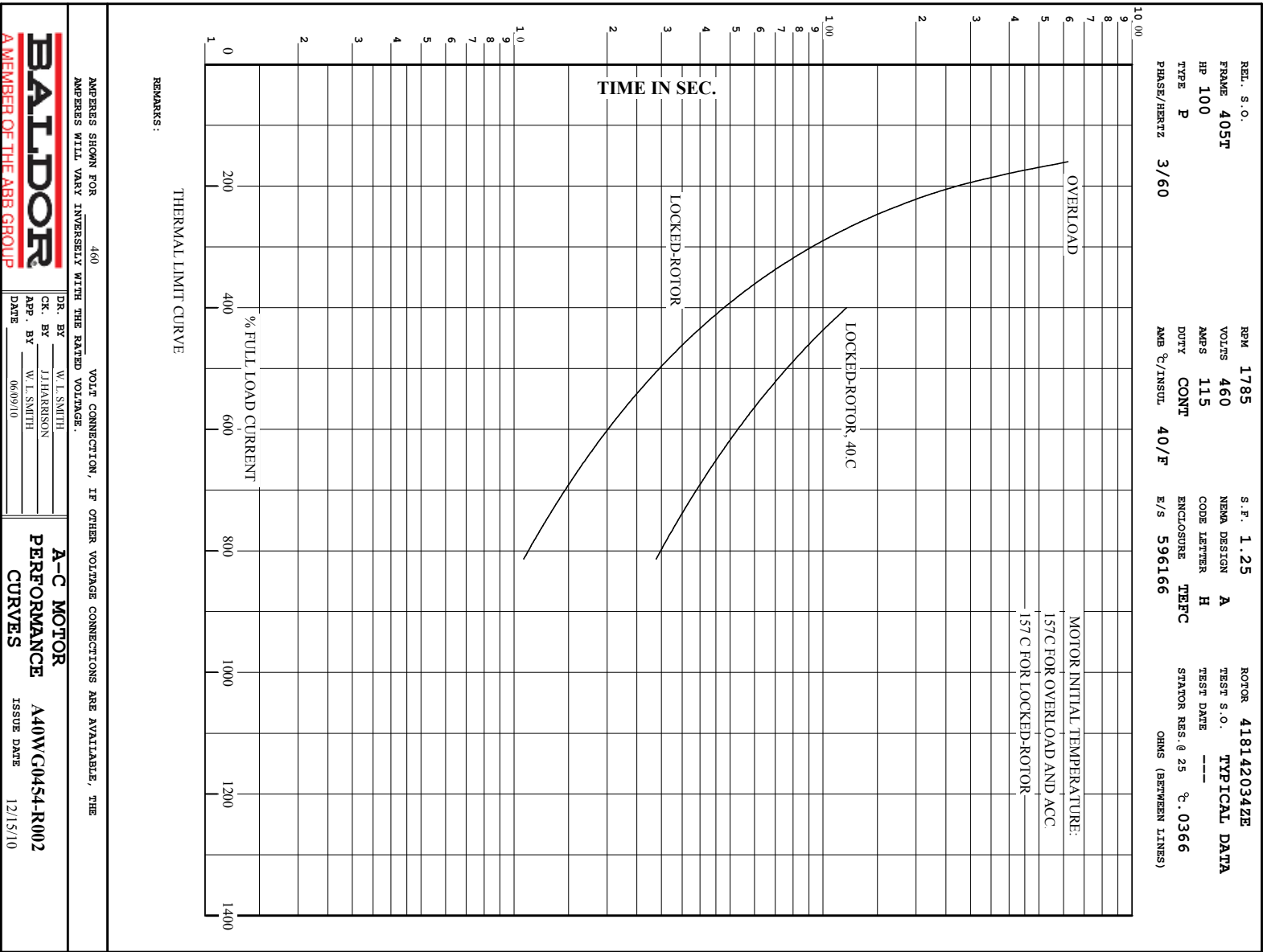
CAT NO	ECR91004T-4		SPEC NO.	P40G1704		DESIGN	A	INSUL.CLASS	F
HP	100	AMPS	115	VOLTS	460	SF	1.25		
RPM	1785	RPM MAX	3600	HZ	60	AMB	40		
D.E. BRG.DATA	6316	O.D.E. BRG.DATA	6316	PH	3	DUTY	CONT		
FRAME	405T	I.P.	55	TYPE	P	ENCL	TEFC	CODE	H
POWER FACTOR	85	3/4 LOAD EFF.		95.7	NEMA NOM EFFICIENCY		95.4		
CHP HZ	60-90	CT HZ	6-60	VT HZ	6-60				
SER.NO.			MOTOR WEIGHT		1390				
1.25SF AMPS= 132									

Nameplate NP2496L		
MOBIL POLYREX EM		

Parts List		
Part Number	Description	Quantity
SA293584	SA P40G1704	1.000 EA
RA279677	RA P40G1704	1.000 EA
000692000FF	N/P	1.000 EA
000613007PV	SS NP, CRUSHER DUTY, EMBOSSED,MAIN MOTOR	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
004824015A	GREASE POLYREX EM	0.884 LB
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
032018020EK	HHCS 5/8-11X2-1/2 PLTD.	4.000 EA
032018026CK	HHCS 3/8-16X3-1/4 PLTD.	3.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
034180008DA	KEY 1/4X1/4X1 L (shipping)	1.000 EA
034530060AB	P/NIP 1/8X7-1/2 GALV.	1.000 EA
034530056BB	P/NIP 1/4X7 SCHED 40	1.000 EA
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 EA
078548001R	FAN KB 234/150 (84) 400	1.000 EA
083198101A	G400 STD FAN COVER MACHINING	1.000 EA
034692005AA	P PLUG 3/4"BLK.	1.000 EA
089412501A	BRKT FTMT G400 FIN MACH 6316 89412500WCA	1.000 EA
410700000DA	WAVY SPRING WASHER	1.000 EA
415045002B	SLGR	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
412118006A	DRAIN	1.000 EA
032018020EK	HHCS 5/8-11X2-1/2 PLTD.	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
032018026CK	HHCS 3/8-16X3-1/4 PLTD.	3.000 EA
034530040AB	P/NIP 1/8X5 GALV.	1.000 EA
034530040BB	P/NIP 1/4X5	1.000 EA
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 EA
089412501A	BRKT FTMT G400 FIN MACH 6316 89412500WCA	1.000 EA
415045002B	SLGR	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
412118006A	DRAIN	1.000 EA
032018010CK	HHCS 3/8-16X1-1/4 PLTD.	4.000 EA
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
065776000C	TERBD 320-400	1.000 EA
067053000B	GASK 320-400	1.000 EA
076708000BB	C/B - 360	1.000 EA
076709000A	C/B - 360	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
415000103H	TERMINAL LUG	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 EA
034180044JA	KEY 3/4X3/4X5-1/2 L	1.000 EA
MG1025G96	WILKOFAS SG, 779.7048, MOUSE GRAY #7048	0.375 GA

421948051	LABEL, MYLAR	1.000 EA
604797045	STD. 400 FRAME SKID	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABLE	1.000 EA
NP2496L	MOTOR LUBE NAMEPLATE	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 EA

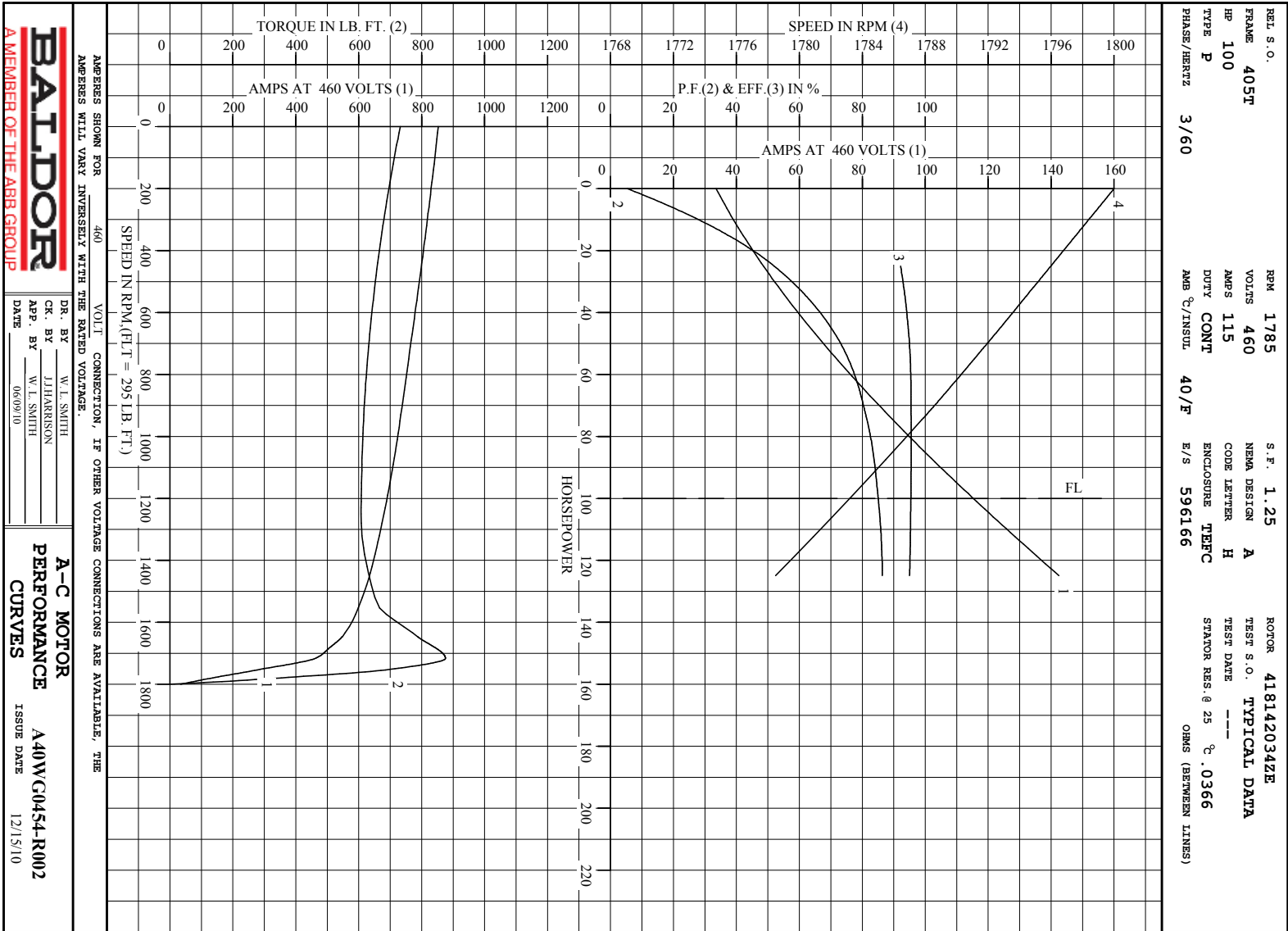


REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	100	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
115	CONT	40/F	1.25	A	H	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
596166	418142034ZE	---	---	.0366		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	% EFFICIENCY	
NO LOAD	0	33.5	1800	5.30	0	
1/4	25.0	48.9	1796	52.0	92.2	
2/4	50.0	67.4	1792	73.2	95.0	
3/4	75.0	90.1	1788	81.6	95.5	
4/4	100	115	1783	85.1	95.4	
5/4	125	142	1778	86.4	95.1	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	249	732	853		
PULL UP	1260	206	608	678		
BREAKDOWN	1716	297	875	462		
FULL LOAD	1783	100	295	115		

AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: TYPICAL DATA

BALDOR A MEMBER OF THE ABB GROUP	DR. BY	W. L. SMITH	A-C MOTOR PERFORMANCE DATA ISSUE DATE 12/15/10
	CHK. BY	J. J. HARRISON	
	APP. BY	W. L. SMITH	
	DATE	06/09/10	



DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

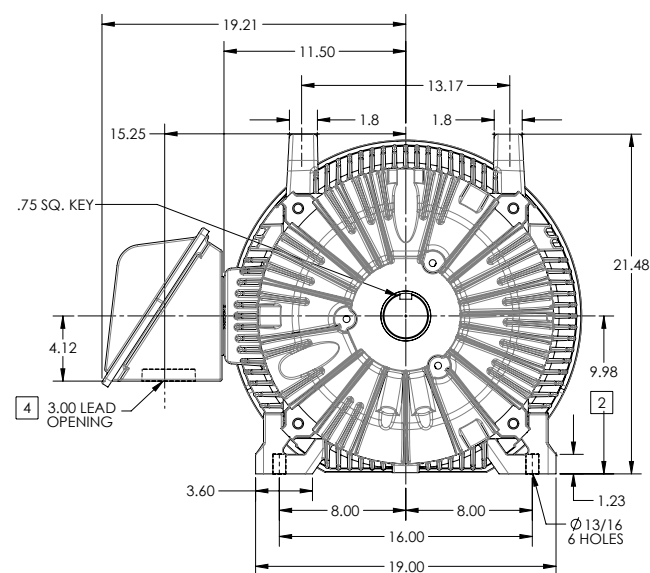
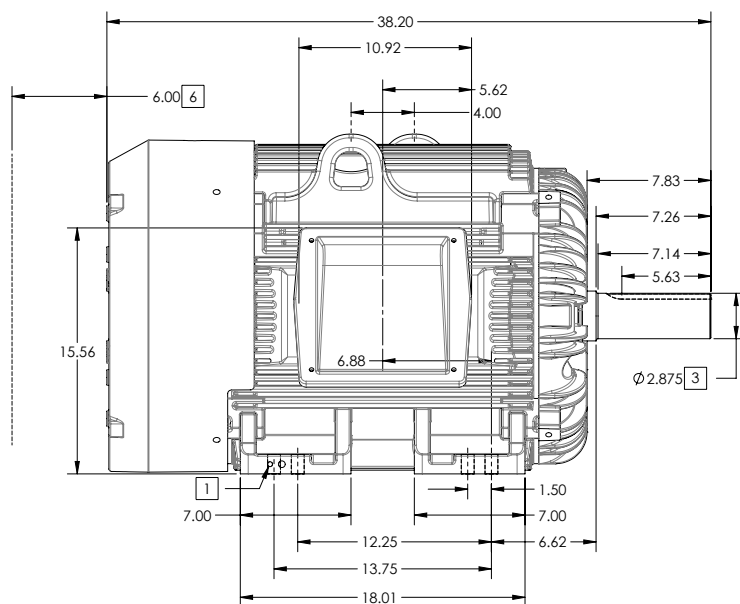
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES

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 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 .003" T.I.R. TO 5 INCH DIA.

[5] WEIGHT (LBS): 1370

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: CHANGE BA FROM 6.76 TO 6.62	TDR: 000000848770
REV: B VERSION: 02	REVISED: 01-11-16 04/14/2014
MODEL NO. 617429-501	REF:
BY: MGHUMZ2	Material:

BALDOR

G405T/404T STD - FOOTED - XT/ECP SEVERE DUTY ENCLOSURE

SHEET NUMBER
1 OF 2

105-627-119

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

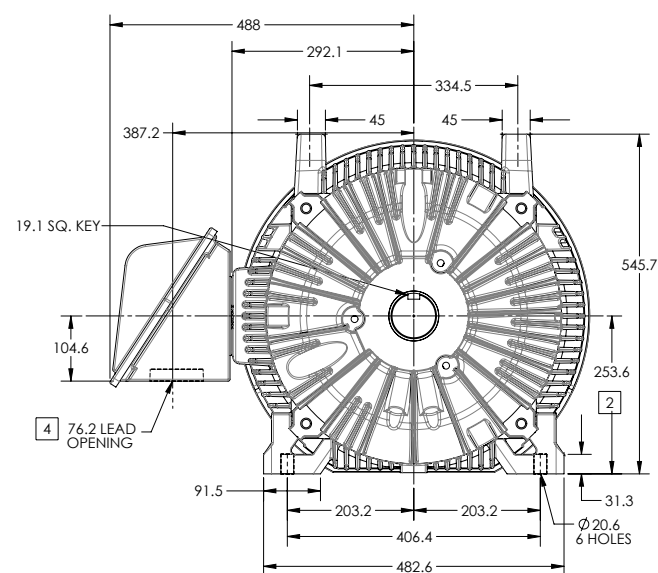
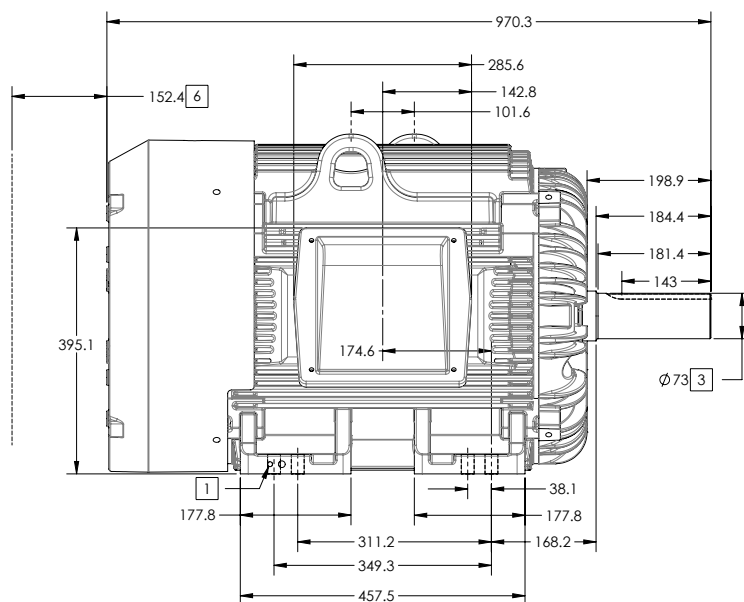
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES

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

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): 630

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

105-627219

REV. DESC: CHANGE BA FROM 6.76 TO 6.62	TDR: 000000848770
REV: B VERSION: 02	REVISED: 01-11-16 04/14/2014
MODEL NO. 617429-501	REF:
BY: MGHUMZ2	Material:

BALDOR

G405T/404T STD - FOOTED - XT/ECP SEVERE DUTY ENCLOSURE

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	

Marketing maintained PDF of MN408:

<http://www.baldor.com/support/Literature/Load.ashx/MN408?ManNumber=MN408>

Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>