ABB BALDOR RELIANCE

Customer information packet

ECP4404TR-4

75HP, 1185RPM, 3PH, 60HZ, 405T, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	405T
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	1200 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	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	10-60
Current @ Voltage	86.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	86.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG1239
Layout	617429-501
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	12-11-2013

Motor Type	A4072M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	38.20 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL SHC -220 GREASE

NP3238

CAT NO	ECP4404TR-4			**SPEC NO.**	A40-4853-1239							
HP	75	**AMPS**	86.5		**VOLTS**	460		**DESIGN**	B			
FRAME	405T	**RPM**	1185	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	NU316			**O.D.E. BRG.DATA**		6316		**PH**	3	**DUTY**	CONT	**INSUL.CLASS** F
D.E. BRG.	80RU03M30X			**TYPE**	P	**ENCL**	TEFC	**CODE**	G			
O.D.E. BRG.	80BC03J30X			**POWER FACTOR**		86		**NEMA NOM EFFICIENCY**			94.5	
3/4 LOAD EFF.	94.8			**MAX CORR KVAR**		15.0		**GUARANTEED EFFICIENCY**			93.6	
TEMP CODE	T3	**TEMP =**	200									
CHP HZ	60-90	**CT HZ**	10-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.				**MOTOR WEIGHT**								

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	75	P	3/60	1185	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
86.5	CONT	40/F	1.15	B	G	FCXE

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
-	418142073FE	---	---	.0899

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	25.9	1200	5.51	0
1/4	18.8	33.3	1197	57.6	91.7
2/4	37.5	48.0	1194	77.5	94.4
3/4	56.2	66.2	1190	83.8	94.8
4/4	75.0	86.5	1186	86.0	94.5
5/4	93.8	108	1182	86.9	93.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	168	557	542
PULL UP	240	157	520	515
BREAKDOWN	1134	246	818	291
FULL LOAD	1186	100	332	86.5

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

REMARKS: CALCULATED DATA
XE MOTOR-NEMA NOM. EFF. 94.5 PCT.

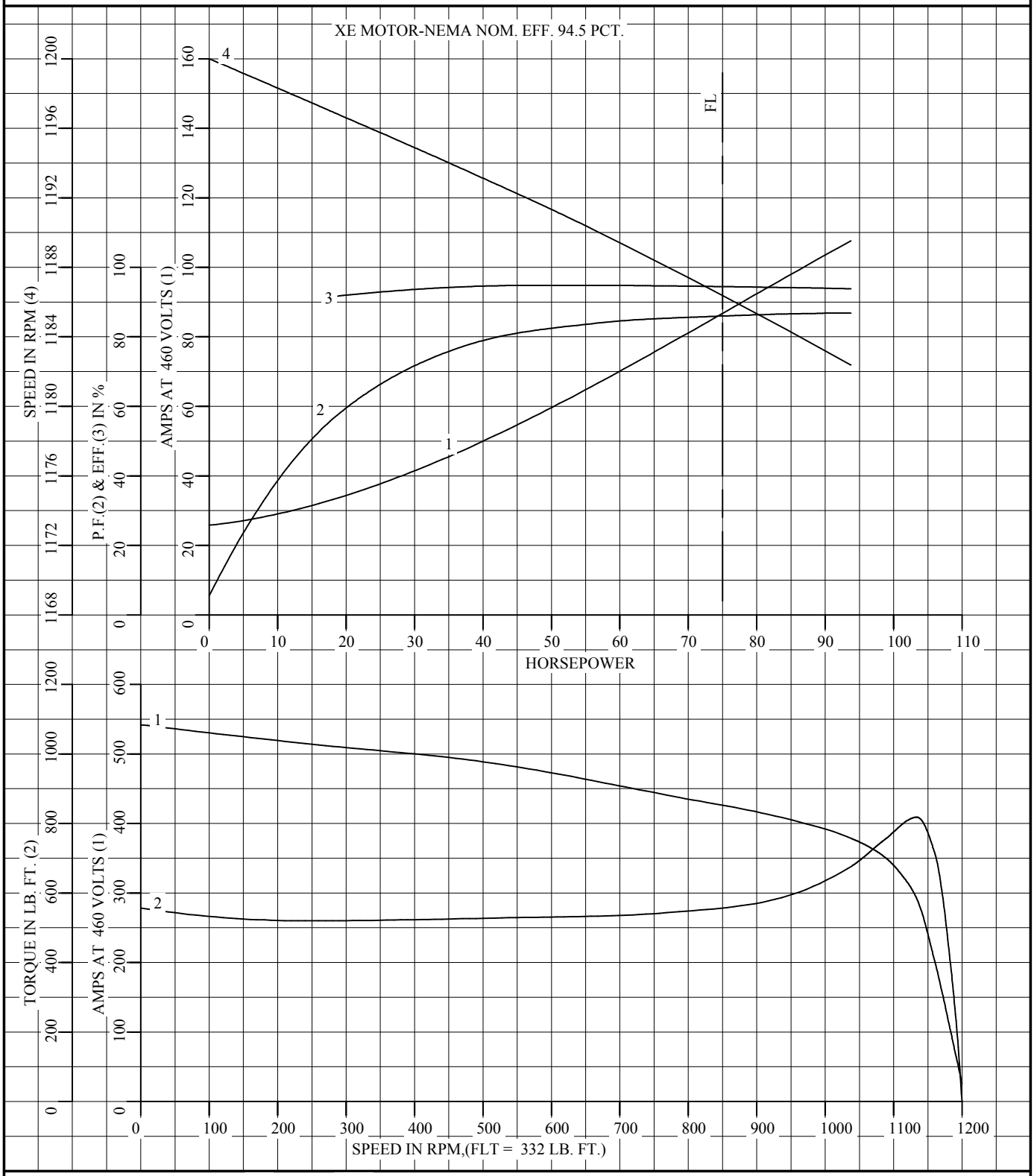
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH
CK. BY C.E.JAMISON
APP. BY W. L. SMITH
DATE 12/10/13

A-C MOTOR PERFORMANCE DATA

A40WG1239-R001
ISSUE DATE 12/10/13

REL S.O.	RPM 1185	S.F. 1.15	ROTOR 418142073FE
FRAME 405T	VOLTS 460	NEMA DESIGN B	TEST S.O. CALCULATED DATA
HP 75	AMPS 86.5	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE FCXE	STATOR RES.@ 25 °C .0899
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S –	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	C.E.JAMISON
APP. BY	W. L. SMITH
DATE	12/10/13

A-C MOTOR PERFORMANCE CURVES

A40WG1239-R001

ISSUE DATE 12/10/13

Printed on 12/10/13 16:31 @ ragsun

617429-501

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

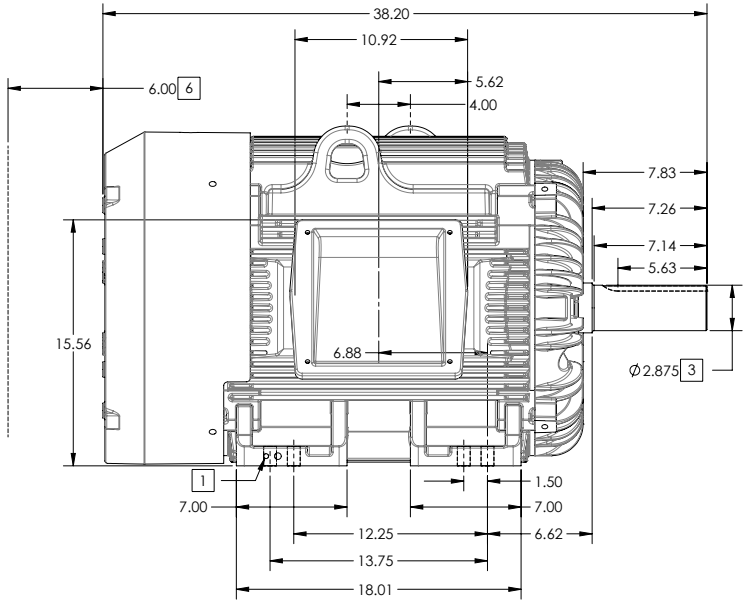
FRAME G405T ABOVE NEMA RATINGS

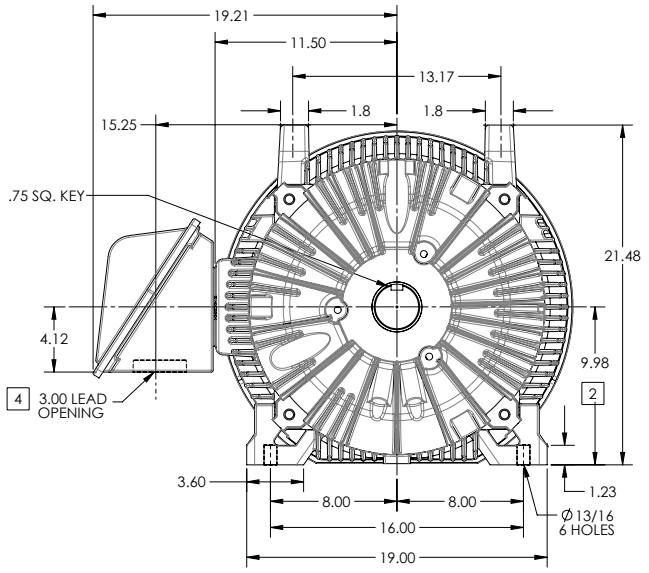
COOLING: FAN COOLED

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.

SHEET NUMBER 1 OF 2

617429-501

REV. DESC: CHANGE BA FROM 6.76 TO 6.62			
REV: B	VERSION: 02	REVISED: 01:11:16 04/14/2014	TDR: 000000848770
MODEL NO. 617429-501			REF:
BY: MGHJMZ2	Material:		C

BALDOR

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

617429-501

617429-501

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

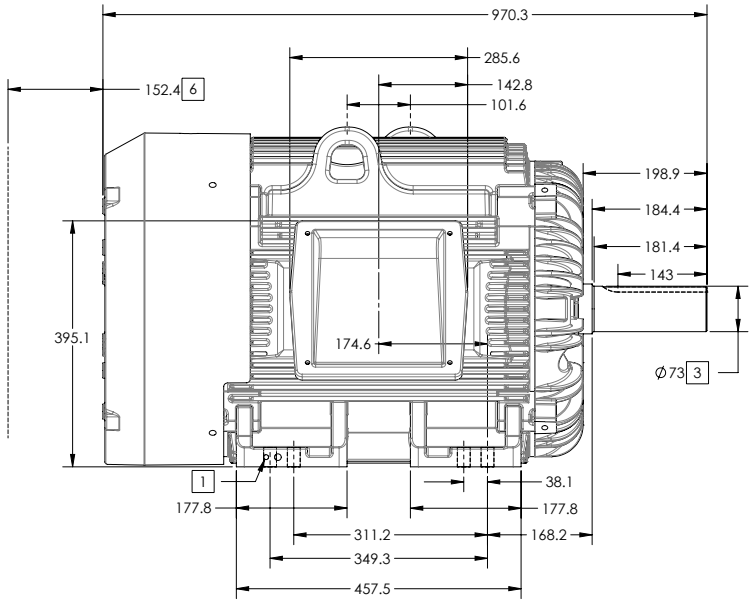
MOUNTING: FOOT

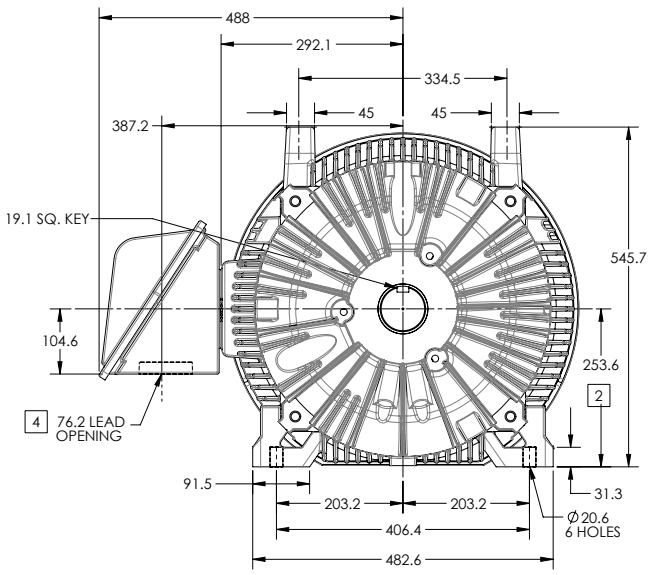
FRAME G405T ABOVE NEMA RATINGS

INCLUDES 404T FRAME MOUNTING HOLES

COOLING: FAN COOLED

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

617429-501

REV. DESC: CHANGE BA FROM 6.76 TO 6.62			
REV: B	VERSION: 02	REVISED: 01:11:16 04/14/2014	TDR: 000000848770
MODEL NO. 617429-501			REF:
BY: MGHJMZ2	Material:		C

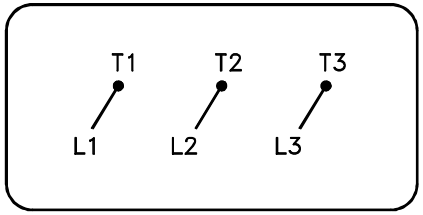
BALDOR

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

617429-501

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