

ABB BALDOR RELIANCE III

Customer information packet

CEM4400T-G

100HP, 1785RPM, 3PH, 60HZ, 405TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	405TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	113.000 A @ 460.0 V 226.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	113.0 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Motor Lead Quantity/Wire Size	3 @ 2 AWG

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG5518
Layout	617429-003
Eff. date	03-08-2023
CD Diagram	416820-002
Poles	04
Leads	3#2,6#4
Proprietary	False
Created date	09-03-2019

Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	38.19 IN
Power Factor	87
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2381L

SPEC NO.	A40-0001-5518	CAT.NO.	CEM4400T-G				FRAME	405TC
HP	100	PHASE	3	DESIGN	B	TYPE	P	
RPM	1785	HZ	60	AMB	40	SF	1.15	
VOLTS	230/460	DUTY	CONT	INSUL.CLASS	H			
AMPS	226/113	ENCL	TEFC	CODE	G			
DRIVE END BEARING	80BC03J30X	NEMA-NOM-EFFICIENCY	95.4					
OPP D.E. BEARING	6316/C3VL0241							
SER.NO.								
	VPWM INV DUTY 10:1 CT AT 1.0SF				MOTOR WEIGHT			

CUSTOMER INFORMATION PACKET						
ABB BALDOR RELIANCE III S/O	FRAME	HP	CEM4400T-G - 100HP, 1785RPM, 3PH, 60HZ, 405TC, TEFC, F1 TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	100	P	3/60	1785	230/460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
226/113	CONT	40/H	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418142-34-VE	---	---	.0134/.0536		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	30.9	1800	5.35	0	
1/4	25.0	41.1	1796	61.5	92.7	
2/4	50.0	60.9	1792	80.7	95.2	
3/4	75.0	85.7	1788	85.7	95.6	
4/4	100	113	1783	86.8	95.4	
5/4	125	142	1778	87.0	94.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	153	450	724		
PULL UP	360	140	413	711		
BREAKDOWN	1720	252	742	387		
FULL LOAD	1783	100	295	113		
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA XE MOTOR						
		DRAWN BY: <u>C.E. JAMISON</u>		AC MOTOR PERFORMANCE DATA		A40WG5518-R001 DATE ISSUED 08/26/19
		CHECKED BY: <u>W.L.SMITH</u>				
		APPROVED BY: <u>E.J.CHRISTIAN</u>				
		DATE: <u>08/26/19</u>				

FRAME 405T

RPM 1785

S.F. 1.15

ROTOR 418F42-34-VE

HP 100

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 226/113

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

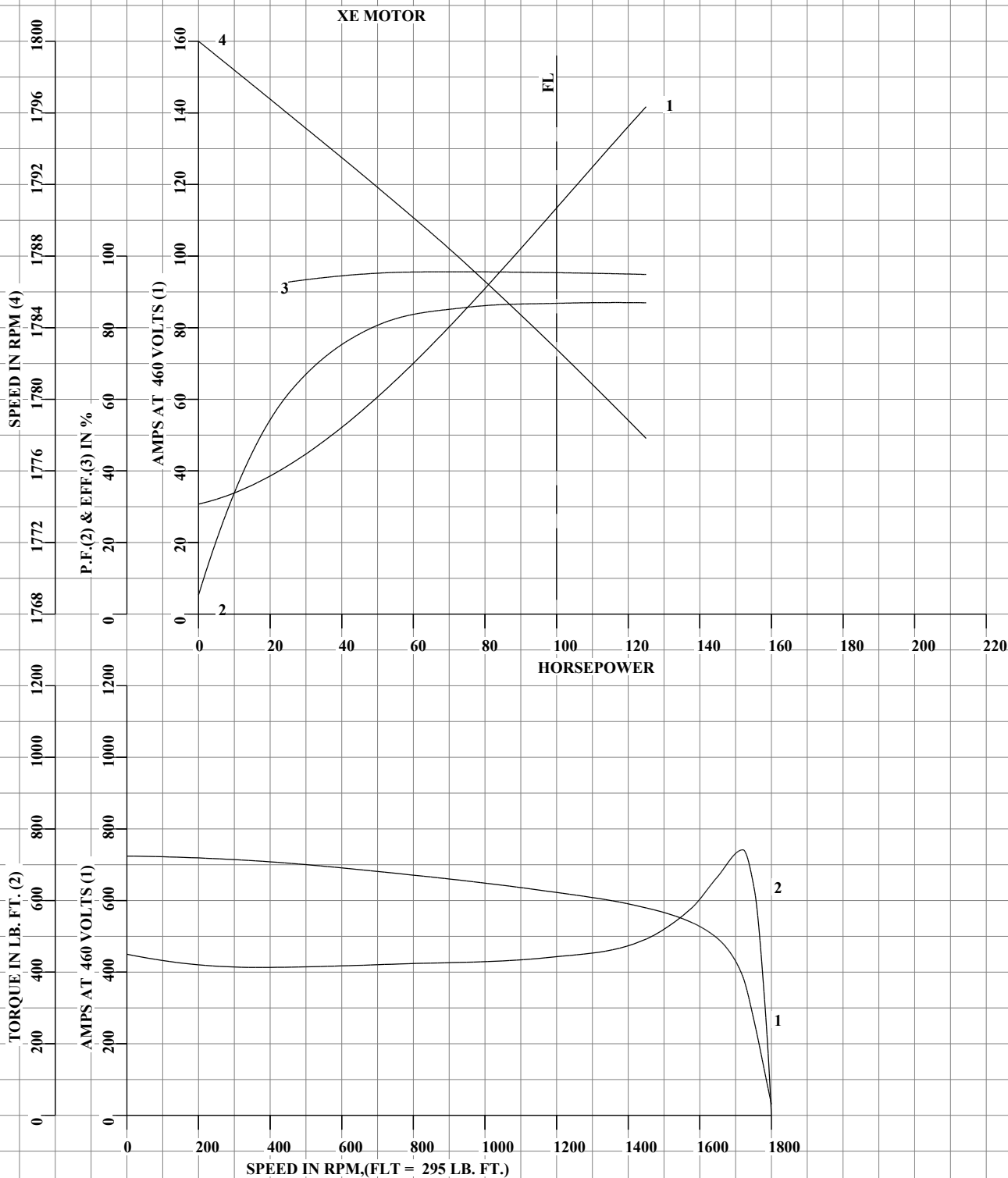
ENCLOSURE TEFC

STATOR RES. @ 25°C .0134/.0536

AMB °C / INSUL 40/H

E/S -

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: C.E. JAMISON
CHECKED BY: W.L. SMITH
APPROVED BY: E.J. CHRISTIAN
DATE: 08/26/19

AC MOTOR
PERFORMANCE
DATA

A40WG5518-R001

ISSUE DATE 08/26/19

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

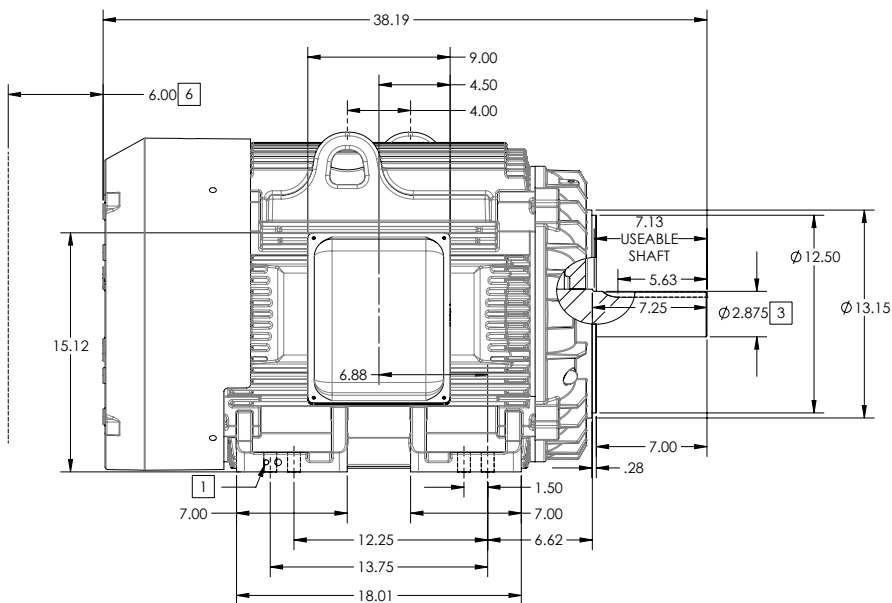
FRAME G405TC ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

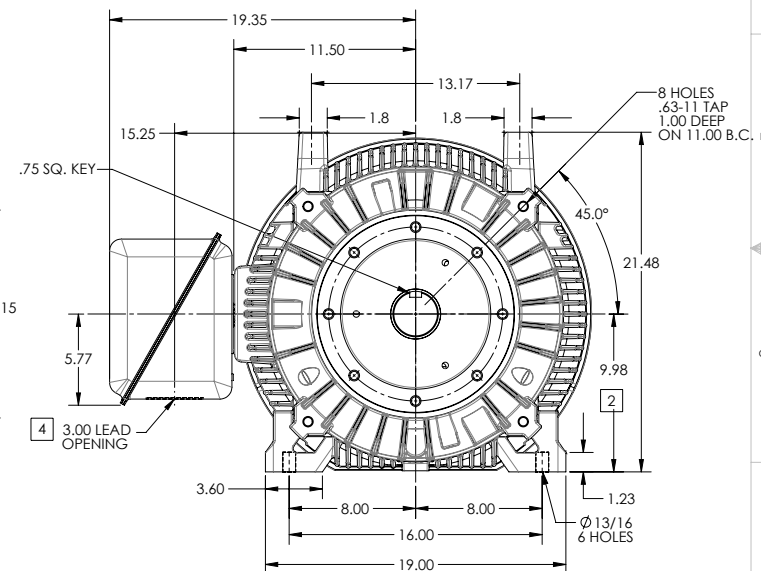
INCLUDES 404TC FRAME MOUNTING HOLES

STANDARD INDUSTRIAL ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00, -.06
3. VARIES +.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
7. MAX FACE RUNOUT AND FIT ECCENTRICITY = 0.007 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 .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
500-6742119

REV. DESC: REMOVE .01 FROM D.E. EXT.	TDR: 000000867674
REV: B VERSION: 02	REVISED: 11/32/25 08/27/2014
MODEL NO. 617429-003	REF:
BY: RAGGDM	Material:

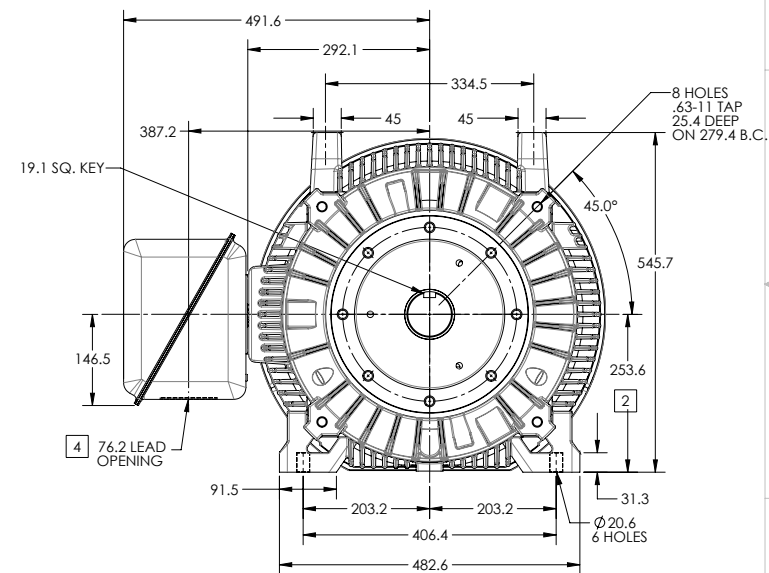
BALDOR

G405TC/404TC STD - FOOTED - STANDARD ENCLOSURE

617429-003

SQUIRREL-CAGE INDUCTION

STANDARD INDUSTRIAL ENCLOSURE



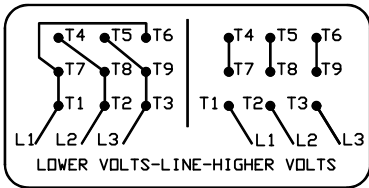
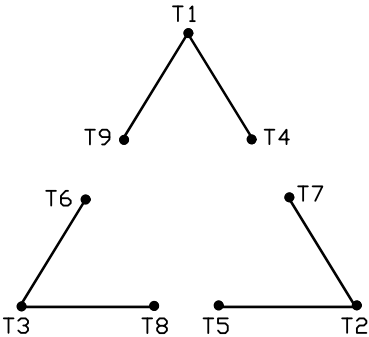
- 5 WEIGHT (KGS): 620

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

BALDOR
G405TC/404TC STD - FOOTED - STANDARD ENCLOSURE

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -	© □	



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1