



Customer information packet

CPX40766T

75//60HP, 1185//985RPM, 3PH, 60//50HZ, 405T,
Class - CLI GP C,D; CLII GP E,F,G
Division - Division I

Specifications

Enclosure	TEFC
Frame	405T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CSA UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	84.200 A @ 460.0 V 168.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	84.2 a
Insulation Class	F

Part detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG1215
Layout	617433-605
Eff. date	05-06-2024
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	02-11-2019

Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	F
Max Speed	3000 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A40072M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	38.22 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Ball
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	Normally Closed Thermostat

Nameplate

NP2496L	
MOBIL POLYREX EM	

000613006PC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	E F G	
OPERATING TEMP CODE	T3C	

000901002AAA	
SUIT @ 55C AMB AT 1.00 SF AT S	INEWAVE

NP3140L

SPEC NO.	A40-0964-1215			CAT.NO.		CPX40766T					FRAME	405T
HP	75	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	1185	AMPS	168/84.2		HZ	60	AMB	40	SF	1.00		
DRIVE END BEARING	80BC03J30X		DUTY	CONT	INSUL.CLASS			F				
OPP D.E. BEARING	80BC03J30X		ENCL	TEFC	CODE	F						
SF	1.15	WK2	39.6	MAG CUR	20.7		RPM MAX	3000				
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90		NEMA-NOM-EFF			94.5		
	IP66											
SER.NO.				MOTOR WEIGHT								

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	75	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
168/84.2	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418142073DE	---	---	.0241/.0964		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	20.7	1200	6.03	0	
1/4	18.8	28.8	1196	66.1	92.6	
2/4	37.5	44.4	1193	83.5	94.8	
3/4	56.2	63.3	1189	87.5	94.9	
4/4	75.0	84.2	1184	88.3	94.5	
5/4	93.8	106	1180	88.6	93.8	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	177	590	525	
PULL UP		170	163	543	499	
BREAKDOWN		1117	247	823	290	
FULL LOAD		1184	100	333	84.2	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
CALCULATED DATA NEMA NOMINAL EFFICIENCY 94.5 PCT						
		DRAWN BY: W.L. SMITH CHECKED BY: C.E. JAMISON APPROVED BY: E.J. CHRISTIAN DATE: 10/02/18		AC MOTOR PERFORMANCE DATA	A40WG1215-R004 DATE ISSUED 03/27/19	

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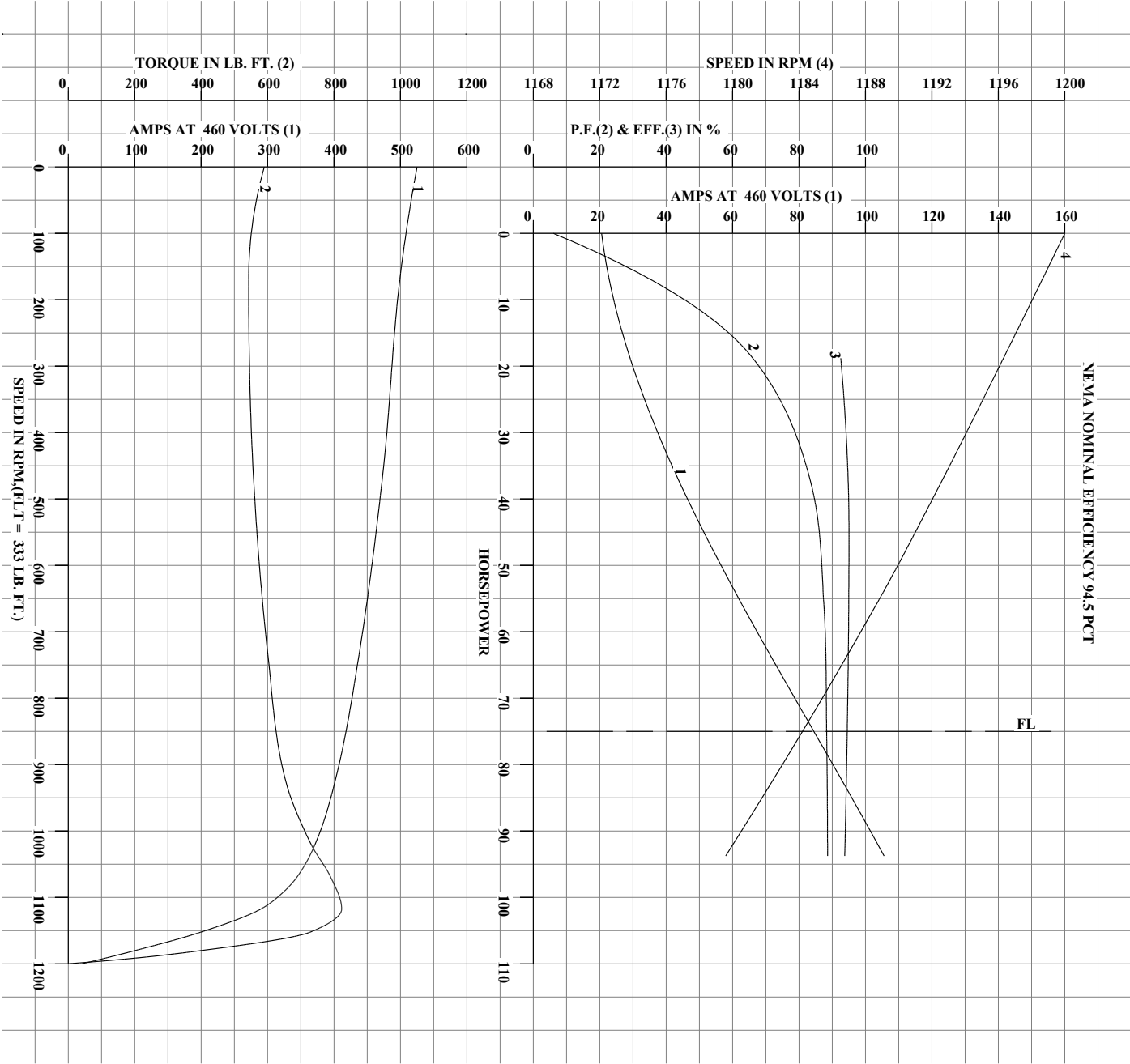
DRAWN BY: W.L.SMITH
CHECKED BY: C.E.JAMISON
APPROVED BY: E.J.CHRISTIAN
DATE: 10/02/18

AC MOTOR
PERFORMANCE
DATA

A40WGI215-R004
ISSUE DATE 03/27/19

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



REL.S.O.	405T	RPM	1185	S.F.	1.15	ROTOR	418142073DE
FRAME	75	VOLTS	230/460	NEMA DESIGN	B	TEST S.O.	CALCULATED DATA
HP	P	AMPS	168/84.2	CODE LETTER	F	TEST DATE	--
TYPE	3/60	DUTY CONT	40/F	ENCLOSURE	TEFC	STATOR RES. @ 25°C	.024/.0964
PHASE / HERTZ		AMB °C / INSUL.		E/S	-	OHMS (BETWEEN LINES)	

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

FRAME G405T

ENCLOSURE: X/P, UNDERWRITERS LISTED

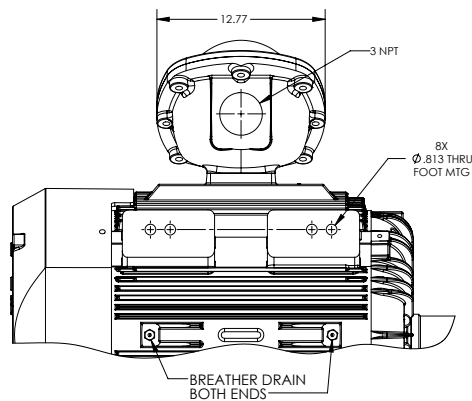
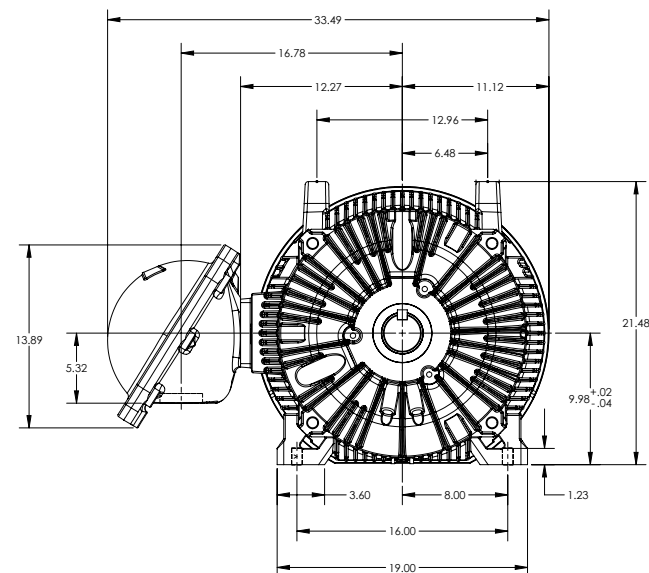
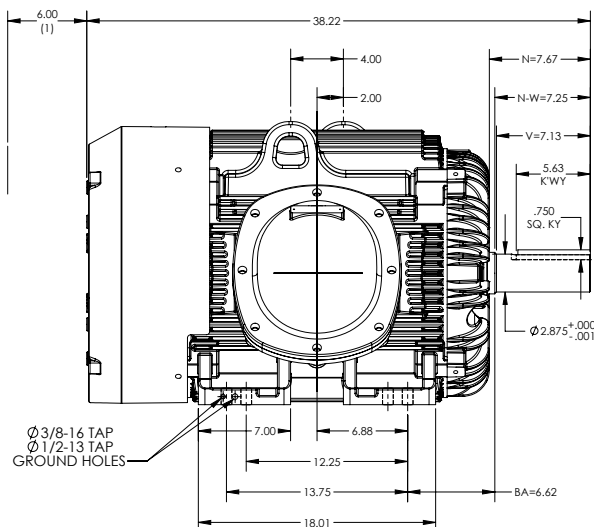
INCLUDES 404T FRAME MOUNTING HOLES
STD CAST IRON C/BOX

COOLING: FAN COOLED

MOUNTING: FOOT, F-1

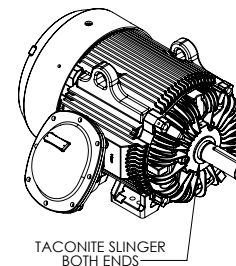
CL1-GROUP C&D - CL2-GROUP E,F & G

ENCLOSURE ENHANCEMENT: SEVERE DUTY



(1) OBSTRUCTION MUST NOT ENCROACH AIR INLET

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003 MAX. T.I.R.WEIGHT: 1400 LBS $\pm 15\%$ DEPENDING ON RATING.

DIMENSIONS ARE IN INCHES.

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

REV. DESC: NEW

REV: - VERSION: 00

REVISED: 02-31-08 02/07/2019

TDR: 000001098248

MODEL NO. 617433-605

REF: -

BY: RAGISS1

Material: -

BALDOR

G405T-404T XP F1 FT-CL1 GRP C&D - CL2 GRP E,F&G

SHEET NUMBER

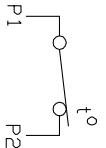
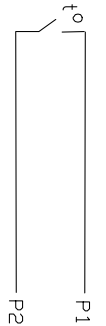
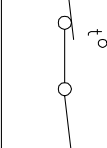
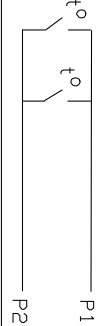
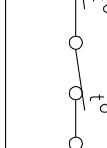
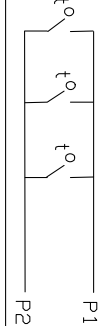
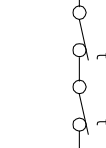
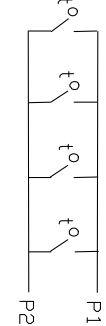
1 OF 1

S09-1137-119

617433-605

CONNECTION DIAGRAM
ACCESSORIES

MOTOR WINDING THERMOSTATS		
CONTACTS _____ @ _____ °C		
FIGURE NUMBER _____		
CONTACT RATING		
VOLTS	CONTINUOUS AMPERES	INRUSH AMPERES
110-120	3.0	30
220-240	1.5	15
440-480	0.75	7.5
550-600	0.60	6.0

THERMOSTATS	
NORMALLY CLOSED	NORMALLY OPEN
FIGURE 1 	FIGURE 4 
FIGURE 2 	FIGURE 5 
FIGURE 3 	FIGURE 6 
FIGURE 7 	FIGURE 8 

CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

418174-006

418174-006

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

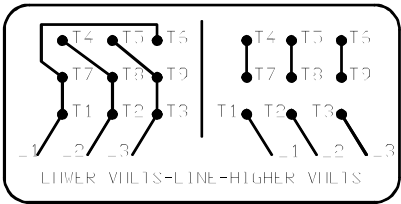
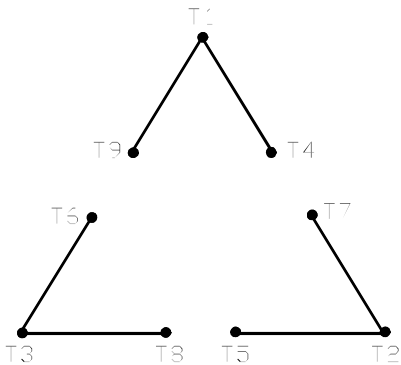
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A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002