

ABB BALDOR RELIANCE III

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							

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							CPX40766T - 75//60HP, 1185//985RPM, 3PH, 60//50HZ, 405T,						
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: <u>W. L. SMITH</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>E.J.CHRISTIAN</u> DATE: <u>10/02/18</u>						AC MOTOR PERFORMANCE DATA			A40WG1215-R004 DATE ISSUED 03/27/19					

FRAME 405T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. CALCULATED DATA

HP 75

AMPS 168/84.2

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

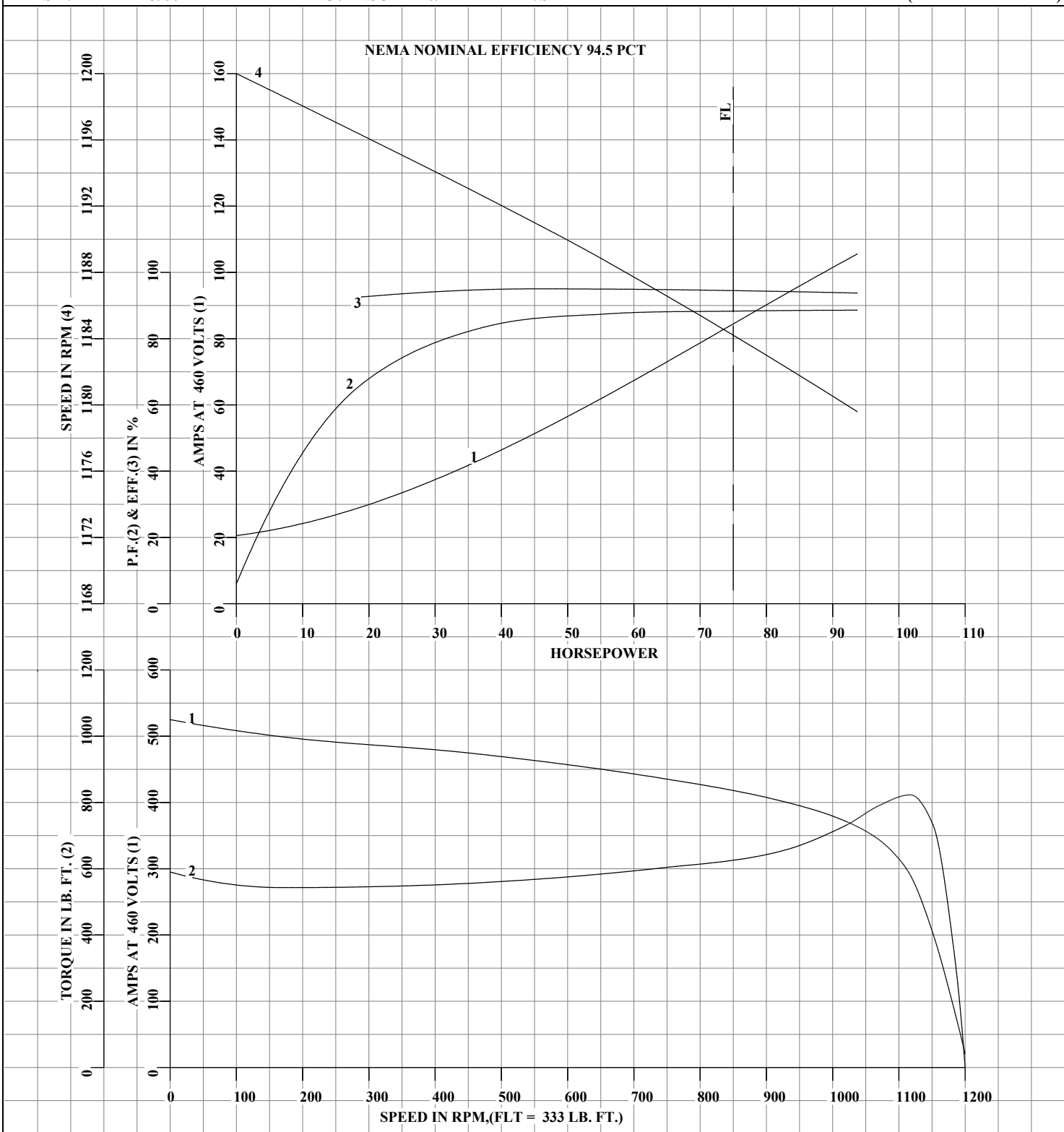
STATOR RES. @ 25°C .0241/.0964

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

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

AC MOTOR
 PERFORMANCE
 DATA

A40WG1215-R004

ISSUE DATE 03/27/19

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

FRAME G405T

ENCLOSURE: X/P, UNDERWRITERS LISTED

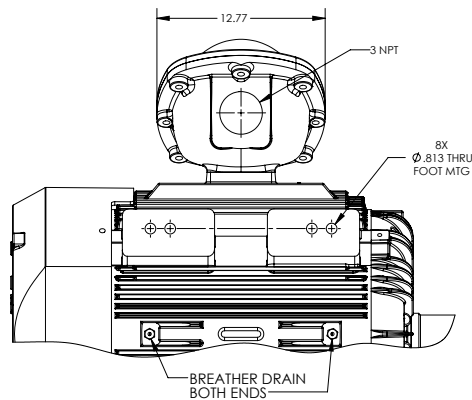
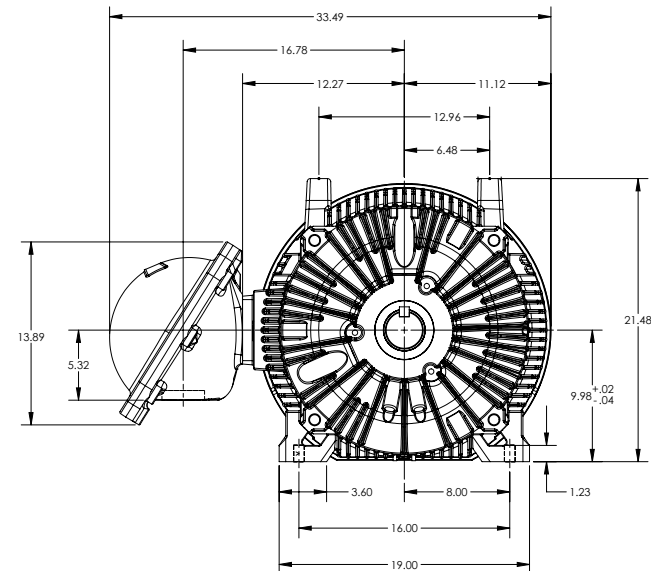
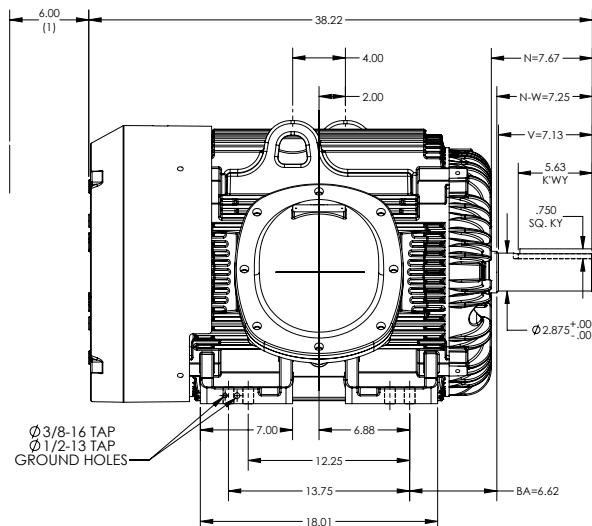
INCLUDES 404T FRAME MOUNTING HOLES
STD CAST IRON C/BOX

COOLING: FAN COOLED

MOUNTING: FOOT, F-1

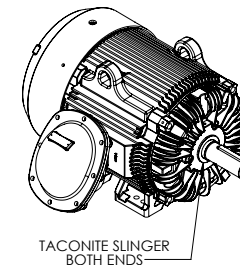
CL1-GROUP C&D - CL2-GROUP E,F & G

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 ±15% DEPENDING ON RATING.



DIMENSIONS ARE IN INCHES.

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

REV. DESC: NEW	VERSION: 00	REVISED: 02-31-08 02/07/2019	TDR: 000001090248
MODEL NO. 617433-605	REF: -	BY: RAGISS1	Material: -

BALDOR

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

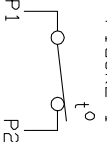
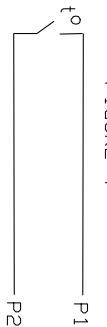
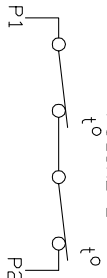
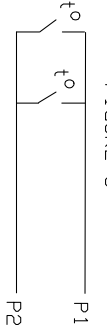
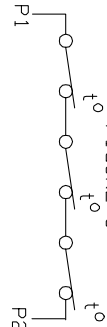
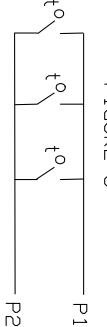
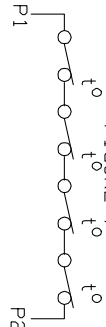
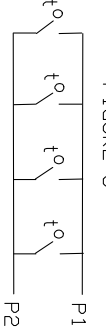
SHEET NUMBER
1 OF 1

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: -		

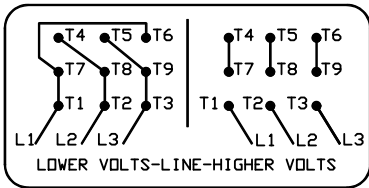
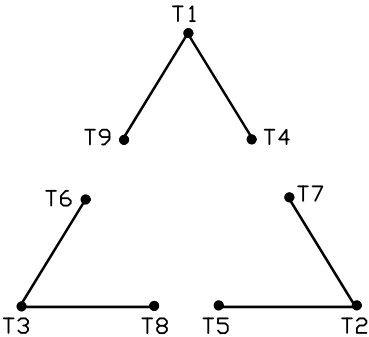
BALDOR

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: 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

416820-002