ABB BALDOR RELIANCE

Customer information packet

EM7086T

60//50HP, 1185//985RPM, 3PH, 60//50HZ, 404T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	TEFC
Frame	404T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
	50.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1000 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CCSAUSEEV
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	135.000 A @ 230.0 V
	136.000 A @ 190.0 V
	67.300 A @ 460.0 V
	68.200 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0490
Layout	617433-544
Eff. date	02-05-2019
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	03-14-2016

Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	67.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
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	1.00
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
	985 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	D X X	**NO.**	
CLASS II GROUP	F G X		
OPERATING TEMP CODE	T4		

NP2549L									
CAT.NO.				**SPEC NO.**	P40G4870			**FRAME**	404T
HP	60//50	**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1185//985	**HZ**	60//50	**AMB**	40	**SF**	1.00		
VOLTS	230/460//190/380			**DUTY**	CONT	**INSUL.CLASS**	F		
AMPS	135/67.3//136/68.2			**ENCL**	TEFC	**CODE**	G		
DRIVE END BEARING	80BC03J30X			**NEMA-NOM-EFFICIENCY**		94.5			
OPP D.E. BEARING	80BC03J30X								
SER.NO.				**MOTOR WEIGHT**	1375				

617433-544

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

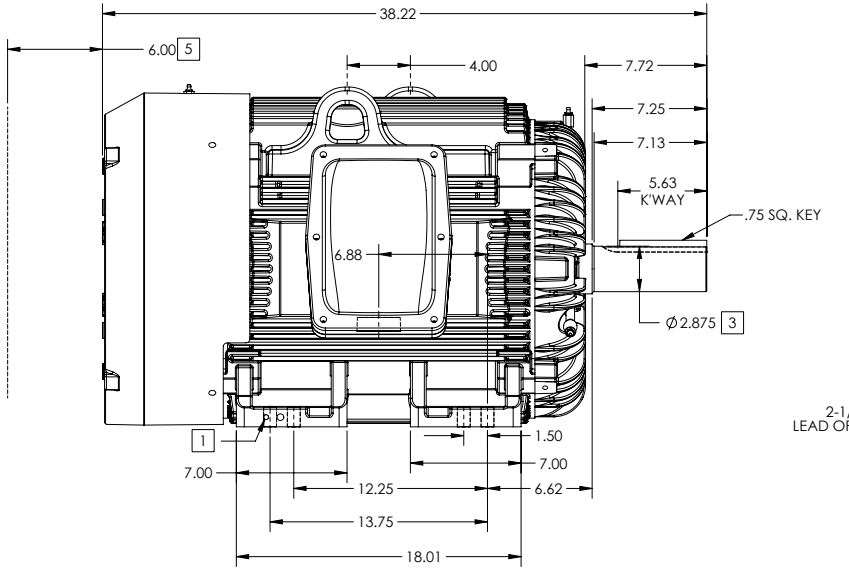
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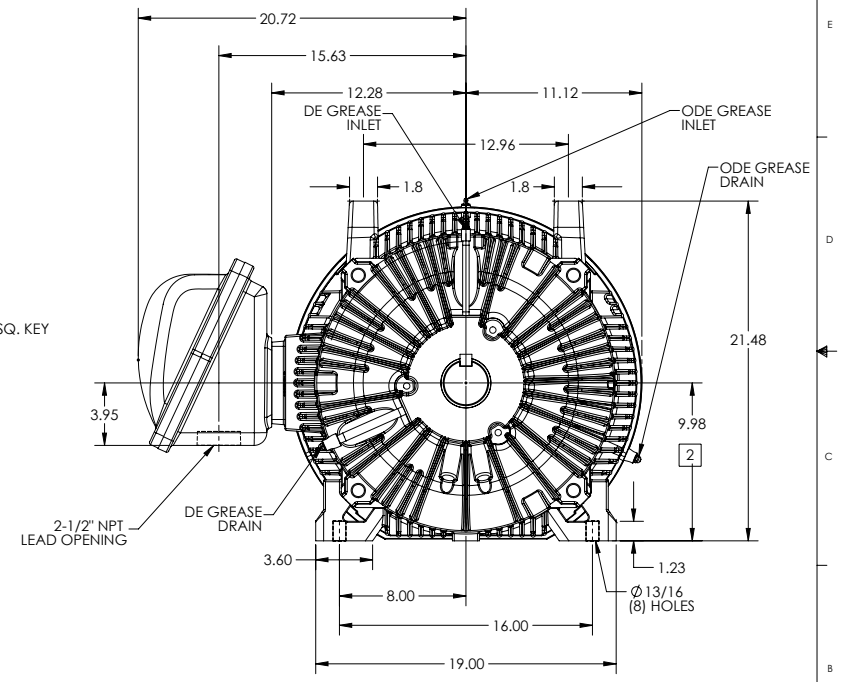
FRAME G405T

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

4 WEIGHT (LBS): 1400

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.

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

617433-544

REV. DESC: CHG 3" NPT TO 2-1/2" NPT ON SHEET 2			
REV: A	VERSION: 01	REVISED: 06:54:11 06/08/2017	TDR: 000001031458
MODEL NO. 617433-544			REF:
BY: RAGEC	Material:		C

BALDOR

G405T/404T XP TEFC,FOOT,14CB1000A01 BOX

617433-544

617433-544

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

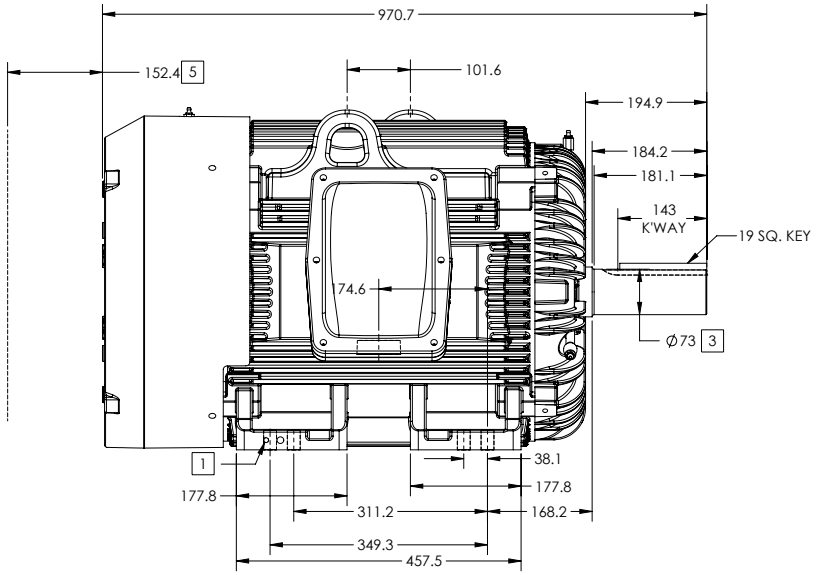
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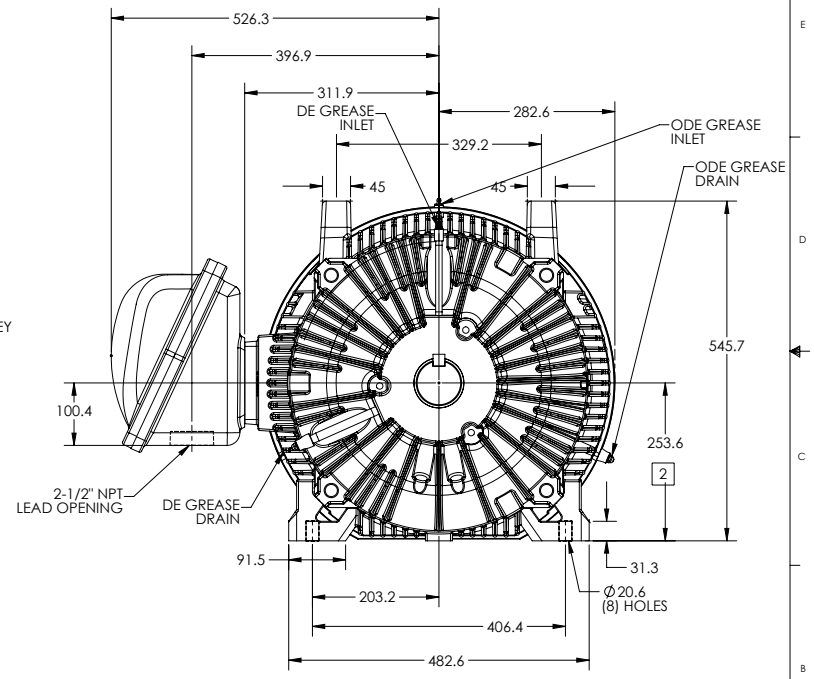
FRAME G405T

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-1.5MM
3. VARIES +.000,-.025MM
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

6 MASS (KGS): 635

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 .076MM T.I.R. TO 130MM DIA.

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

617433-544

REV. DESC: CHG 3" NPT TO 2-1/2" NPT ON SHEET 2			
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MODEL NO. 617433-544			REF:
BY: RAGEC	Material:		C

BALDOR

G405T/404T XP TEFC,FOOT,14CB1000A01 BOX

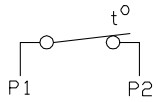
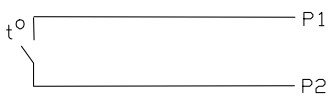
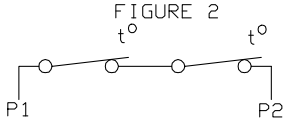
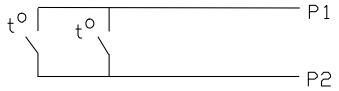
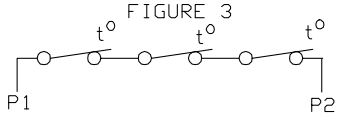
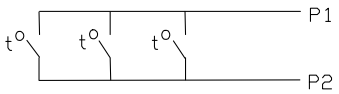
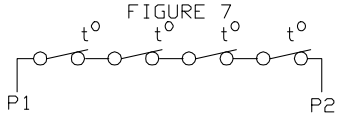
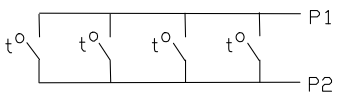
617433-544

418174-006

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. _____

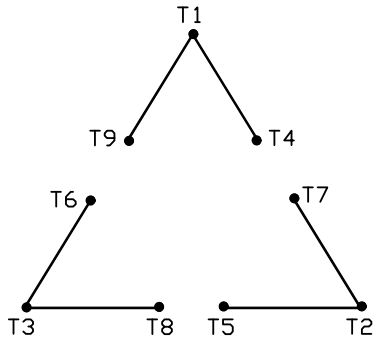
BALDOR
A-C MOTOR CONNECTION ACCESSORIES
SH 1 of 1

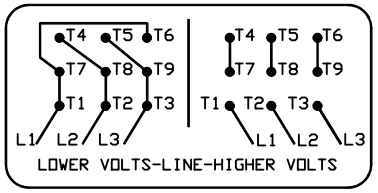
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MTL: -		

418174-006

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: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002