



Customer information packet

ECP84400T-5

100HP, 1780RPM, 3PH, 60HZ, 405T, A40072M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	405T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	C UR US CCSA US CCSAUSEEV CURUS
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	90.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	90.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG3405
Layout	617429-818
Eff. date	06-19-2025
CD Diagram	416820-036
Poles	04
Leads	3#2
Proprietary	False
Created date	05-14-2025

Lifting Lugs

Standard Lifting Lugs

Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	None
Motor Type	A40072M
Mounting Arrangement	F1
No Load Current	26.2 a
Number of Poles	4
Overall Length	38.19 IN
Power Factor	87
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	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566													
CAT NO	ECP84400T-5			SPEC NO.		A40-0003-3405							
HP	100	AMPS	90.7		VOLTS		575		DESIGN	B			
FRAME SIZE	405T	RPM	1780		HZ	60	AMB	40	SF	1.15			
D.E. BRG.DATA	6316		O.D.E. BRG.DATA			6316		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	80BC03J30X			TYPE	ENCL	TEFC	CODE	G					
O.D.E. BRG.	80BC03J30X			POWER FACTOR			87		NEMA-NOM-EFFICIENCY			95.4	
3/4 LOAD EFF.	95.8	IP	56	MAX CORR KVAR			18		GUARANTEED EFFICIENCY			94.5	
TEMP CODE	T3	TEMP =	200										
CHP HZ	60-90	CT HZ	15-60		VT HZ	0-60							
INVERTER-TEMP-CODE	T3												
SER.NO.				MOTOR WEIGHT									

000613007EX

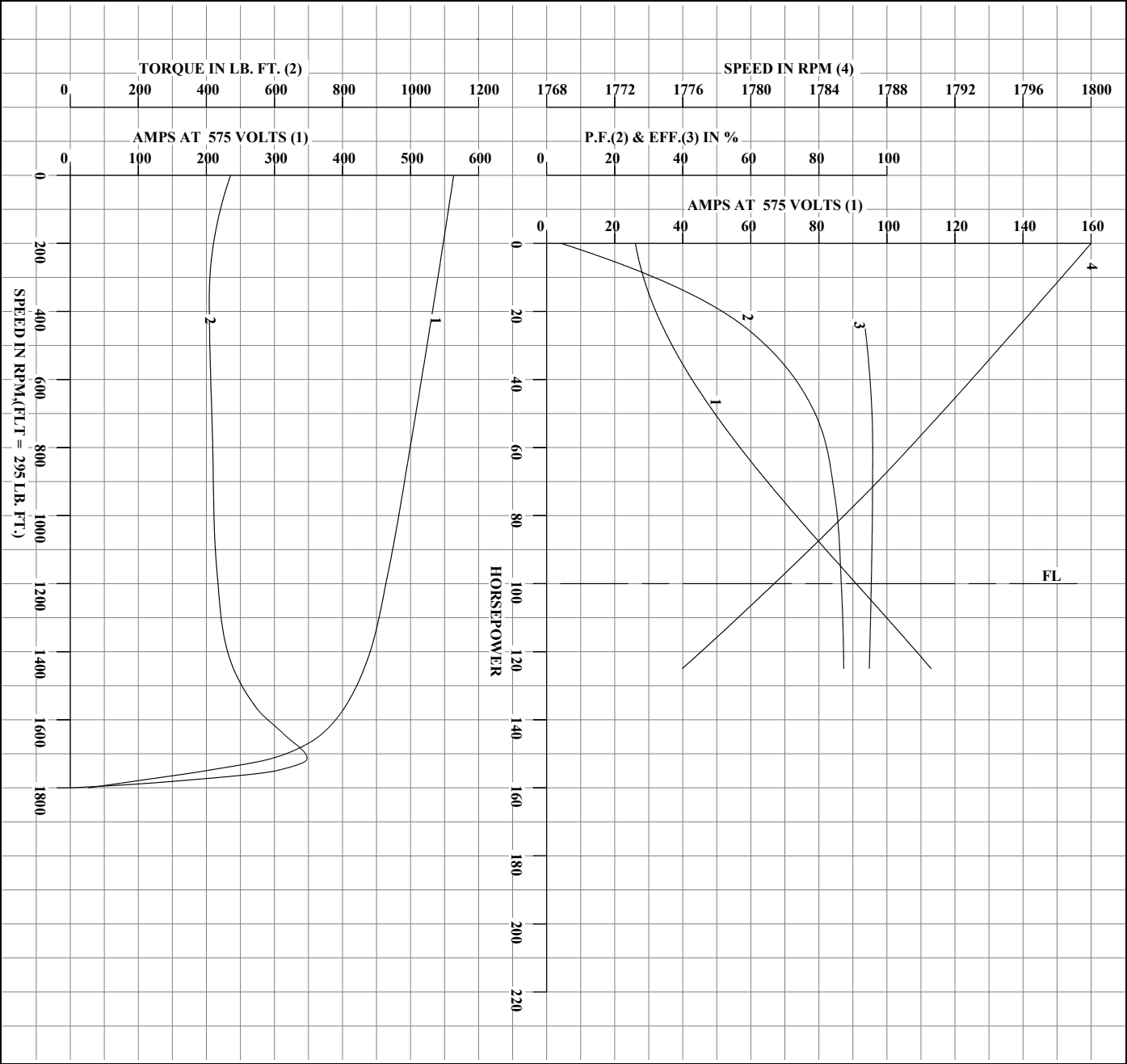
CAT NO	ECP84400T-5	SPEC NO.	A40-0003-3405	
NO. ROTOR BARS	47	GREASE TYPE	POLYREX EM	
NO. SLOTS	60	NL AMPS AT RATED VOLTAGE	26.2	
5 YEAR WARRANTY		WINDING RES @25 C	.0789	OHMS
MFG. DATE		SER.NO		
	SFA 104			

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405TSC	100	P	3/60	1780	575
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
90.7	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
---	418142037CE	---	---	.0789		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	26.2	1800	4.28	0	
1/4	25.0	34.0	1796	58.8	93.6	
2/4	50.0	49.6	1791	78.9	95.6	
3/4	75.0	69.2	1786	84.8	95.8	
4/4	100	90.7	1781	86.6	95.4	
5/4	125	113	1776	87.3	94.8	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	160	471	563	
PULL UP		360	139	409	535	
BREAKDOWN		1715	236	696	295	
FULL LOAD		1781	100	295	90.7	
AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA						
 DRAWN BY: W.L. SMITH CHECKED BY: C.E. JAMISON APPROVED BY: E.J. CHRISTIAN DATE: 06/07/18 AC MOTOR PERFORMANCE DATA A400WG3405-R001 DATE ISSUED 08/24/23						

USCHIATA

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REL.S.O.	405TSC	RPM 1780	S.F. 1.15	ROTOR 418142037CE
FRAME	100	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP	100	AMPS 90.7	CODE LETTER G	TEST DATE ---
TYPE	P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0789
PHASE / HERTZ	3/60	AMB °C / INSUL. 40/F	E/S ---	OHMS (BETWEEN LINES)



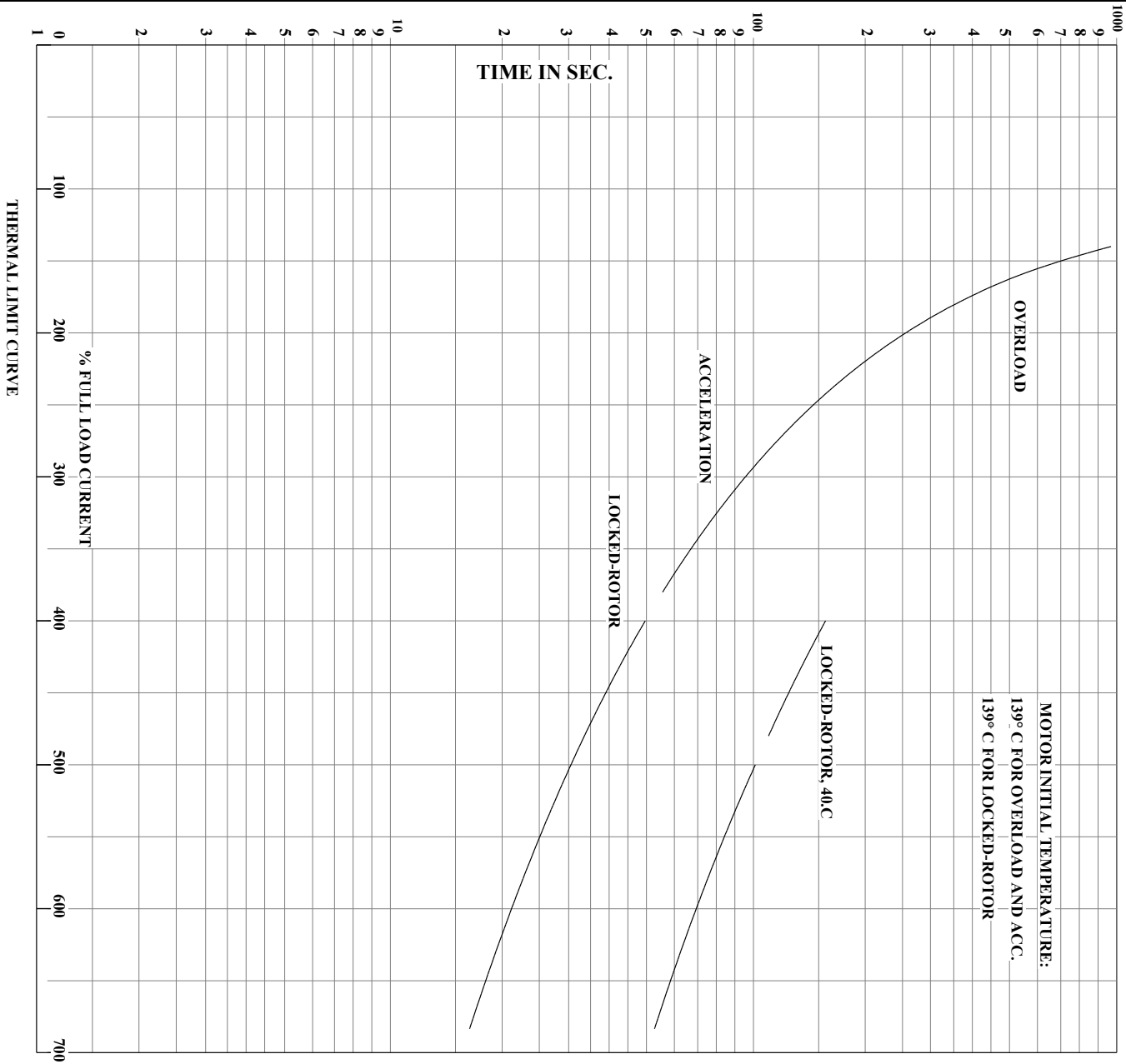
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HP 100		VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P		AMPS 90.7	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60		DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0789
		AMB °C / INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)



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DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED

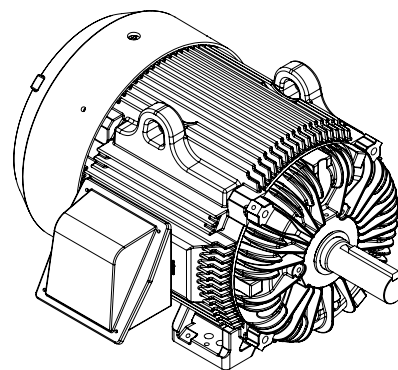
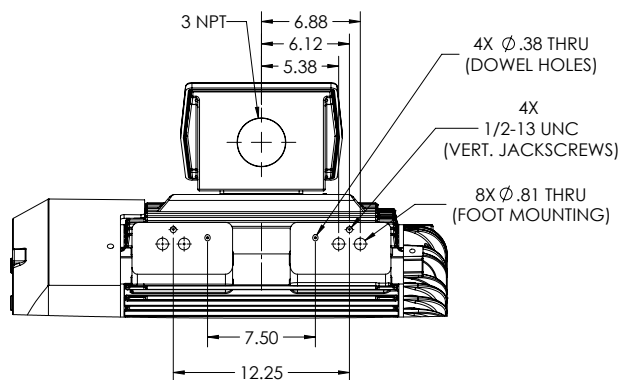
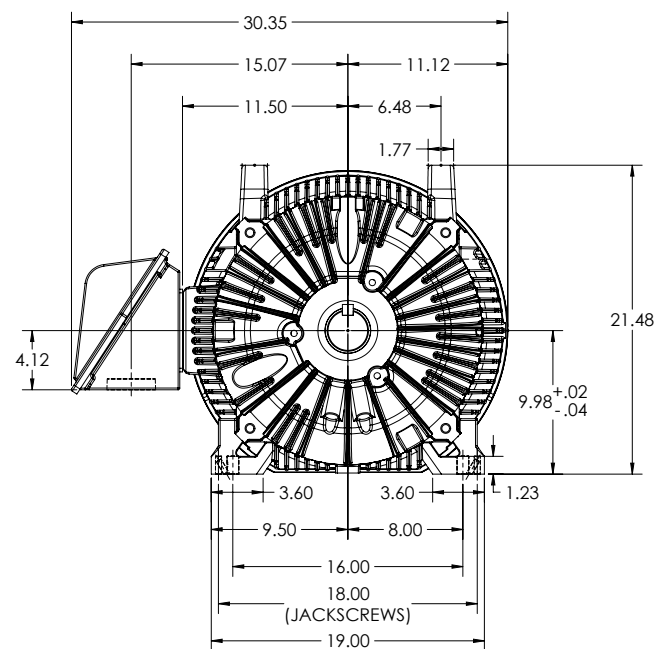
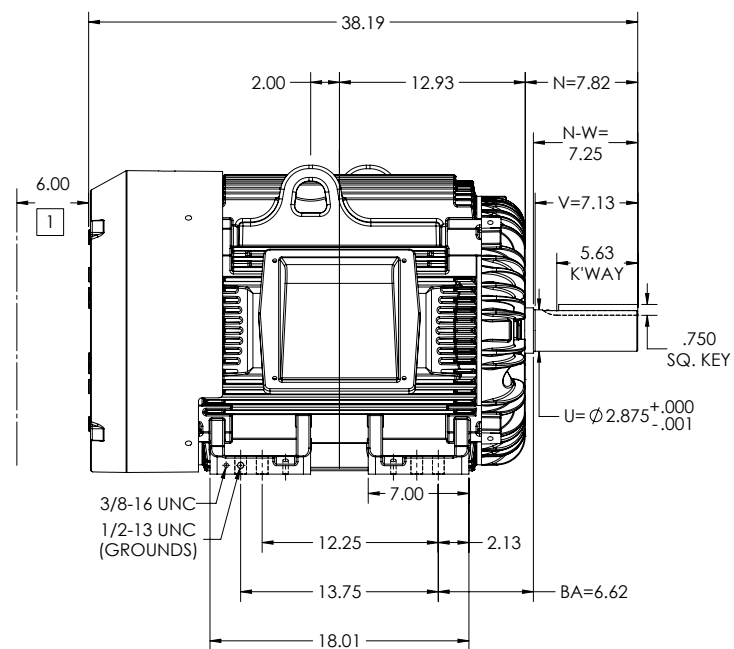
SQUIRREL-CAGE INDUCTION

COOLING: FAN COOLED

MOUNTING: FOOT, F-1

G405T/G404T FRAME MOUNTING HOLES

ENCLOSURE ENHANCEMENT: 841-XL



DIMENSIONS ARE IN INCHES.
MOTOR WEIGHT(LBS)= 1350 ± 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER
1 OF 2

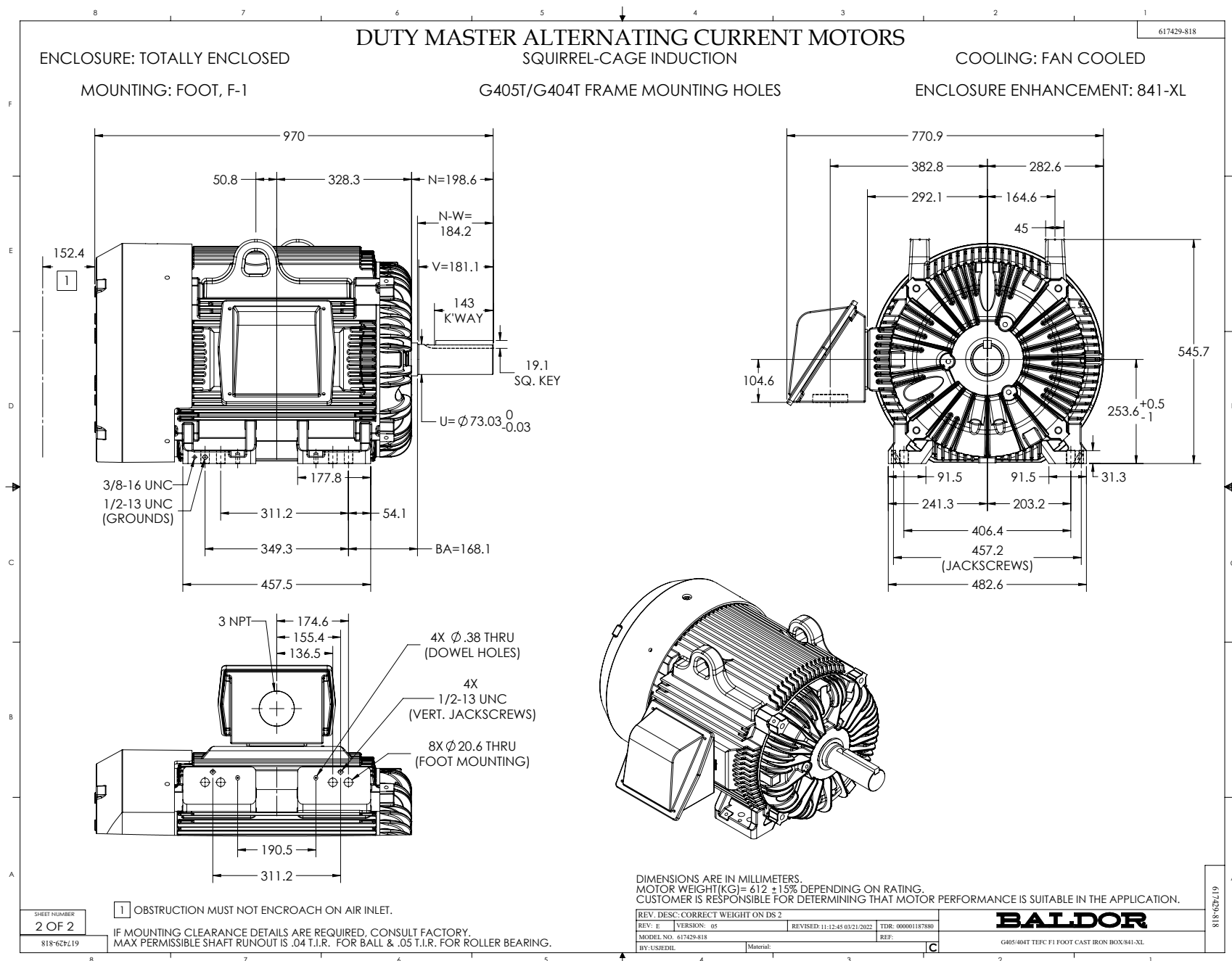
1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT IS .0015 T.I.R. FOR BALL & .002 T.I.R. FOR ROLLER BEARING.

REV. DESC: CORRECT WEIGHT ON DS 2			
REV: E	VERSION: 05	REVISED: 11:12:45 03/21/2022	TDR: 000001187880
MODEL NO. 617429-818			REF:
BY: USJEDIL		Material:	

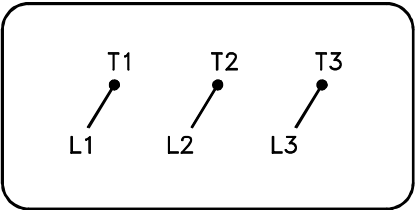
BALDOR

G405/404T TEFC F1 FOOT CAST IRON BOX/841-XL



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		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1