



Customer information packet

ECP84400T-4

100HP, 1785RPM, 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	460.0 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	115.000 A @ 460.0 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	115.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG5476
Layout	617429-818
Eff. date	06-19-2025
CD Diagram	416820-036
Poles	04
Leads	3#2
Proprietary	False
Created date	05-12-2025

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	36.1 a
Number of Poles	4
Overall Length	38.19 IN
Power Factor	85
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566															
CAT NO	ECP84400T-4			SPEC NO.		A40-0024-5476									
HP	100	AMPS		115		VOLTS		460		DESIGN		B			
FRAME SIZE	405T	RPM		1785		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			85		NEMA-NOM-EFFICIENCY			95.4			
3/4 LOAD EFF.	95.7	IP	56	MAX CORR KVAR				22		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

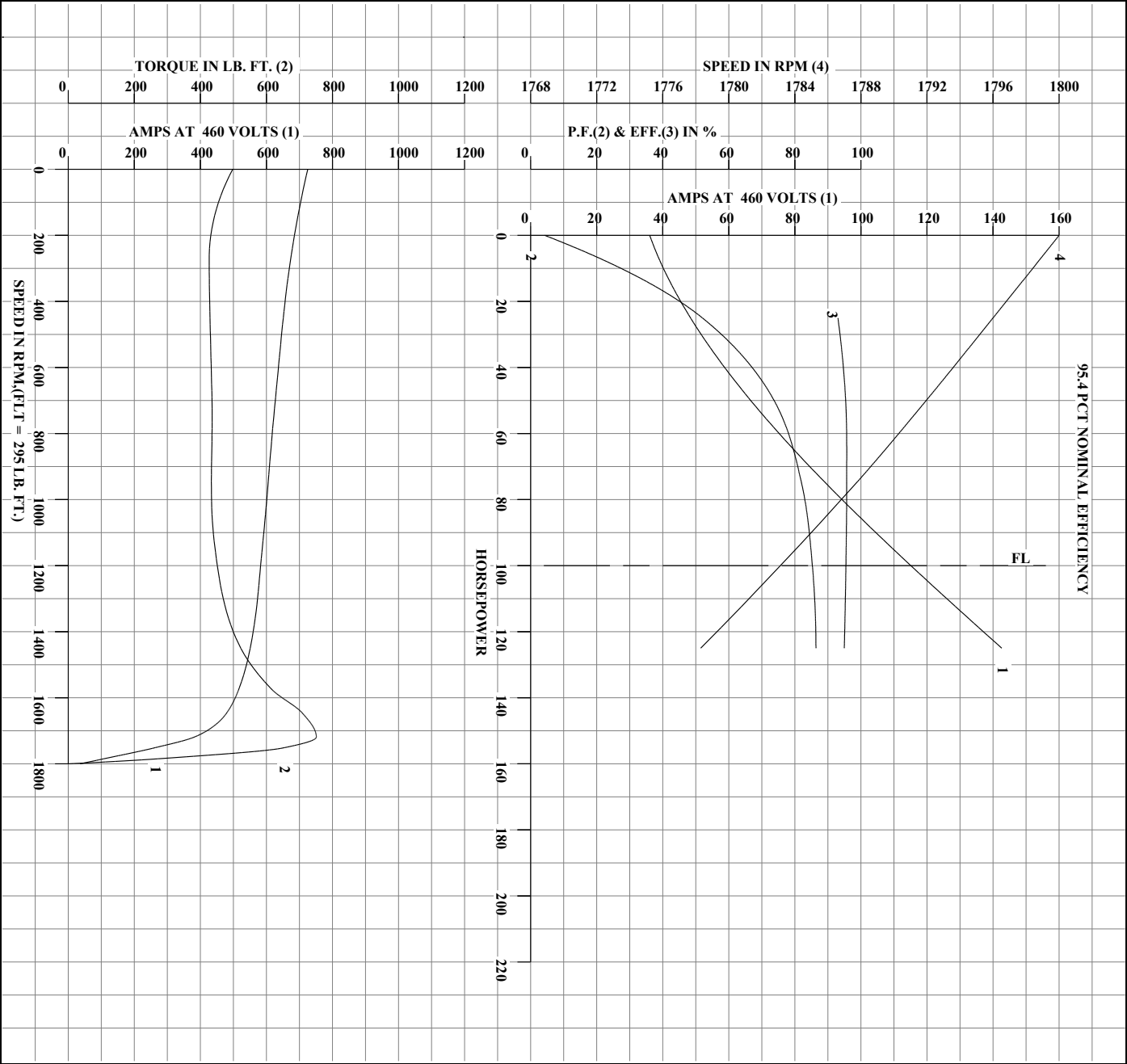
CAT NO	ECP84400T-4	SPEC NO.	A40-0024-5476
NO. ROTOR BARS	47	GREASE TYPE	POLYREX EM
NO. SLOTS	60	NL AMPS AT RATED VOLTAGE	36.1
5 YEAR WARRANTY		WINDING RES @25 C	.0482
MFG. DATE		SER.NO	

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	40ST	100	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
I15	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418142037CE	---	---	.0482		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	36.1	1800	4.27	0	
1/4	25.0	48.4	1796	52.0	93.0	
2/4	50.0	66.6	1792	73.7	95.4	
3/4	75.0	89.4	1788	82.0	95.7	
4/4	100	115	1783	85.3	95.5	
5/4	125	143	1778	86.4	95.0	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	169	498	725	
PULL UP		270	145	427	674	
BREAKDOWN		1719	255	751	382	
FULL LOAD		1783	100	295	115	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA 95.4 PCT NOMINAL EFFICIENCY						
		DRAWN BY: W.L. SMITH CHECKED BY: J.P. TSAO APPROVED BY: W.L. SMITH DATE: 02/28/20		AC MOTOR PERFORMANCE DATA	A40WG5476-R002 DATE ISSUED 08/28/23	

USCHIATA

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REL.S.O.	405T	RPM	1785	S.F.	1.15	ROTOR	418142037CE
FRAME	405T	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	100	AMPS	115	CODE LETTER	G	TEST DATE	--
TYPE	P	DUTY CONT		ENCLOSURE	TEFC	STATOR RES. @ 25°C	.0482
PHASE / HERTZ	3/60	AMB °C / INSUL.	40/F	E/S	-	OHMS (BETWEEN LINES)	



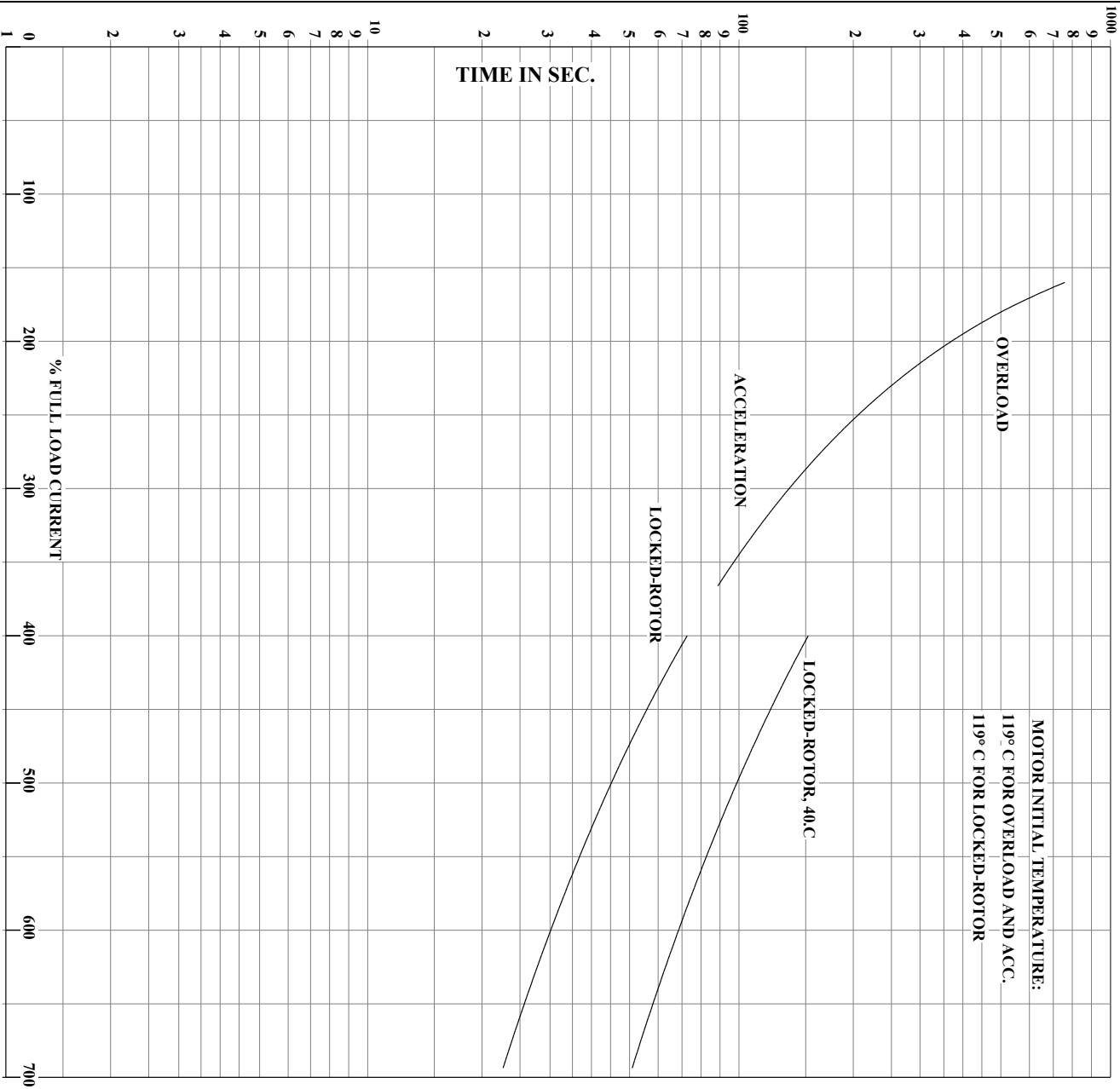
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	ISSUE DATE 08/28/23		

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REL.S.O.		RPM 1785	S.F. 1.15	ROTOR 418142037CE
FRAME 405T		VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 100		AMPS 115	CODE LETTER G	TEST DATE ---
TYPE P		DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0482
PHASE / HERTZ 3/60		AMB °C / INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



Thermal Limit Curve
95.4 PCT NOMINAL EFFICIENCY

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

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DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED

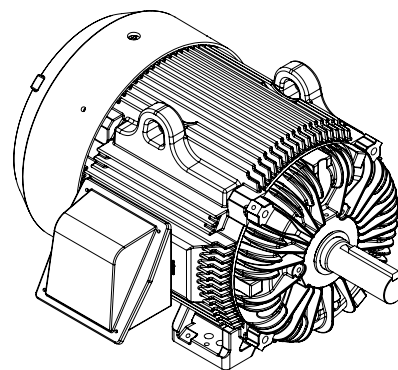
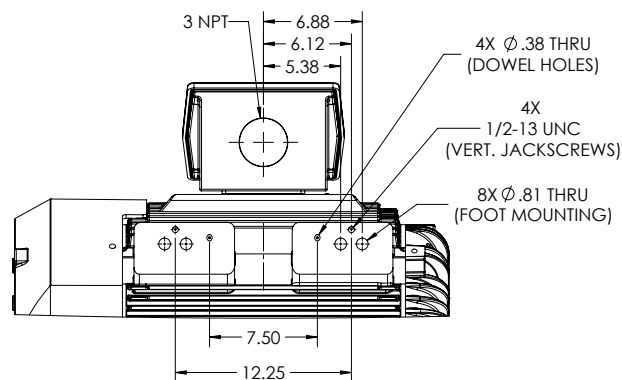
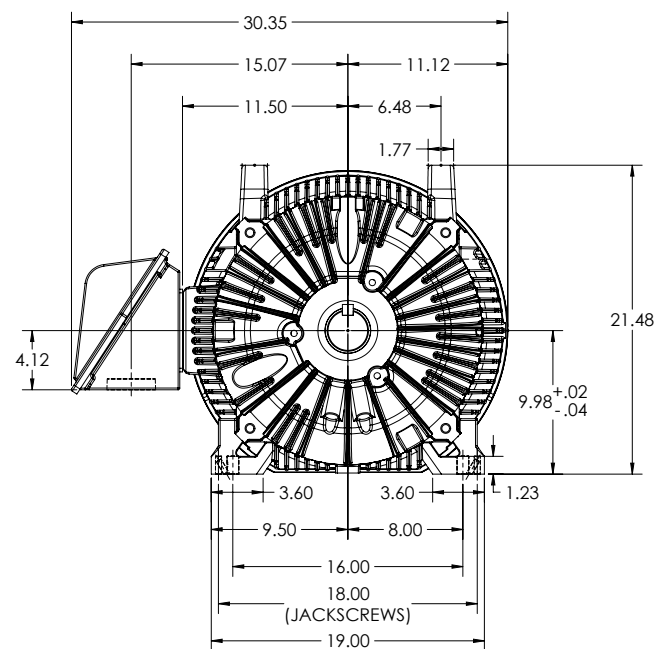
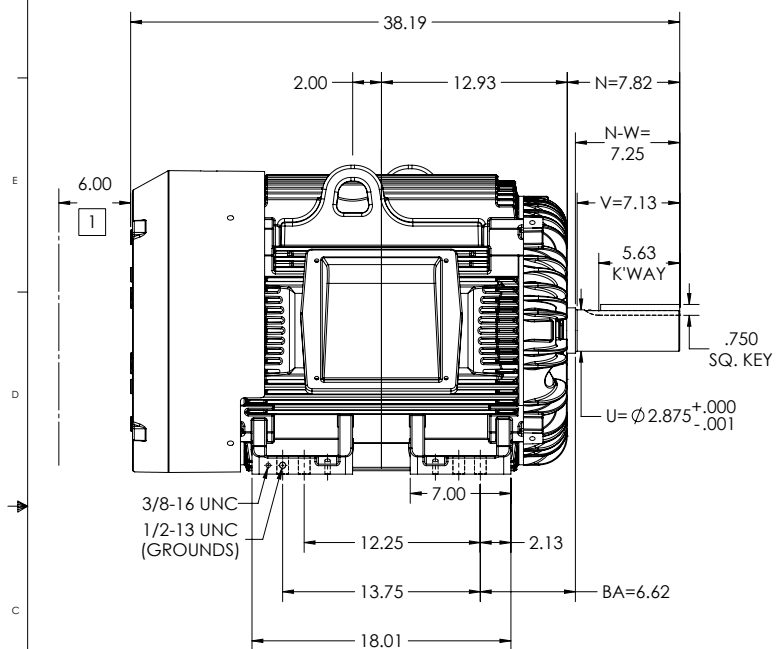
SQUIRREL-CAGE INDUCTION

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

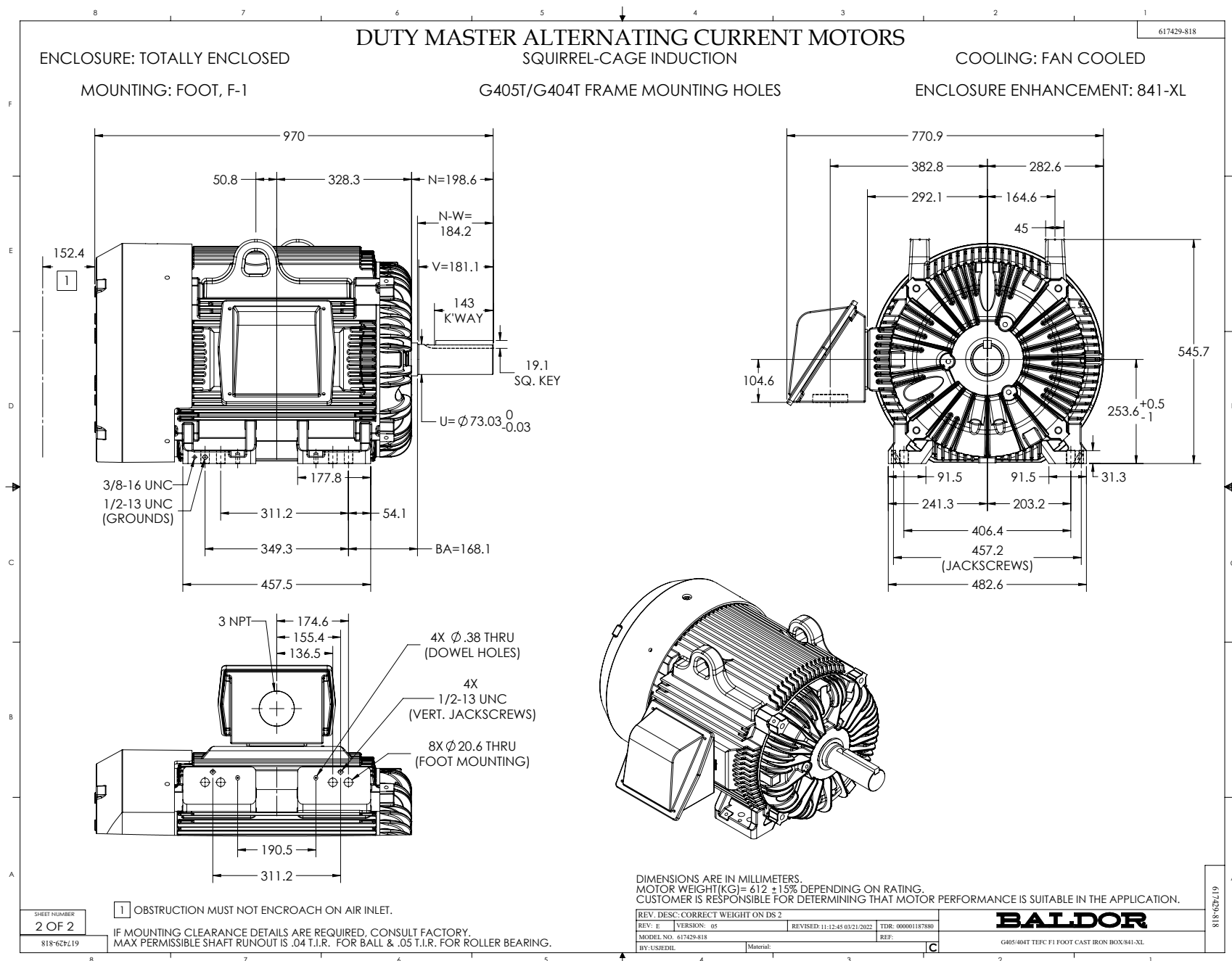
1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

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:	

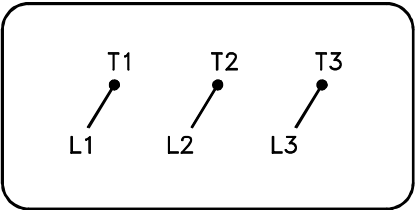
BALDOR

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



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