



Customer information packet

ECP84402T-5

100HP, 3565RPM, 3PH, 60HZ, 405TS, A40066M, TEF

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	405TS
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	3600 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	10-60
Current @ Voltage	88.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	88.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG5508
Layout	617429-791
Eff. date	06-19-2025
CD Diagram	416820-036
Poles	02
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	A40066M
Mounting Arrangement	F1
No Load Current	21.4 a
Number of Poles	2
Overall Length	35.19 IN
Power Factor	90
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3565 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566																
CAT NO	ECP84402T-5			SPEC NO.		A40-0001-5508										
HP	100	AMPS		88		VOLTS		575		DESIGN		B				
FRAME SIZE	405TS	RPM		3565		HZ		60	AMB		40	SF	1.15			
D.E. BRG.DATA	6313		O.D.E. BRG.DATA			6313		PH		3	DUTY		CONT	INSUL.CLASS	F	
D.E. BRG.	65BC03J30X			TYPE		ENCL		TEFC		CODE		G				
O.D.E. BRG.	65BC03J30X			POWER FACTOR				90		NEMA-NOM-EFFICIENCY				94.1		
3/4 LOAD EFF.	94.5	IP		56	MAX CORR KVAR				12		GUARANTEED EFFICIENCY				93	
TEMP CODE	T3	TEMP =		200												
CHP HZ	60-70	CT HZ		10-60		VT HZ		0-60								
INVERTER-TEMP-CODE	T3															
SER.NO.				MOTOR WEIGHT												

000613007EX

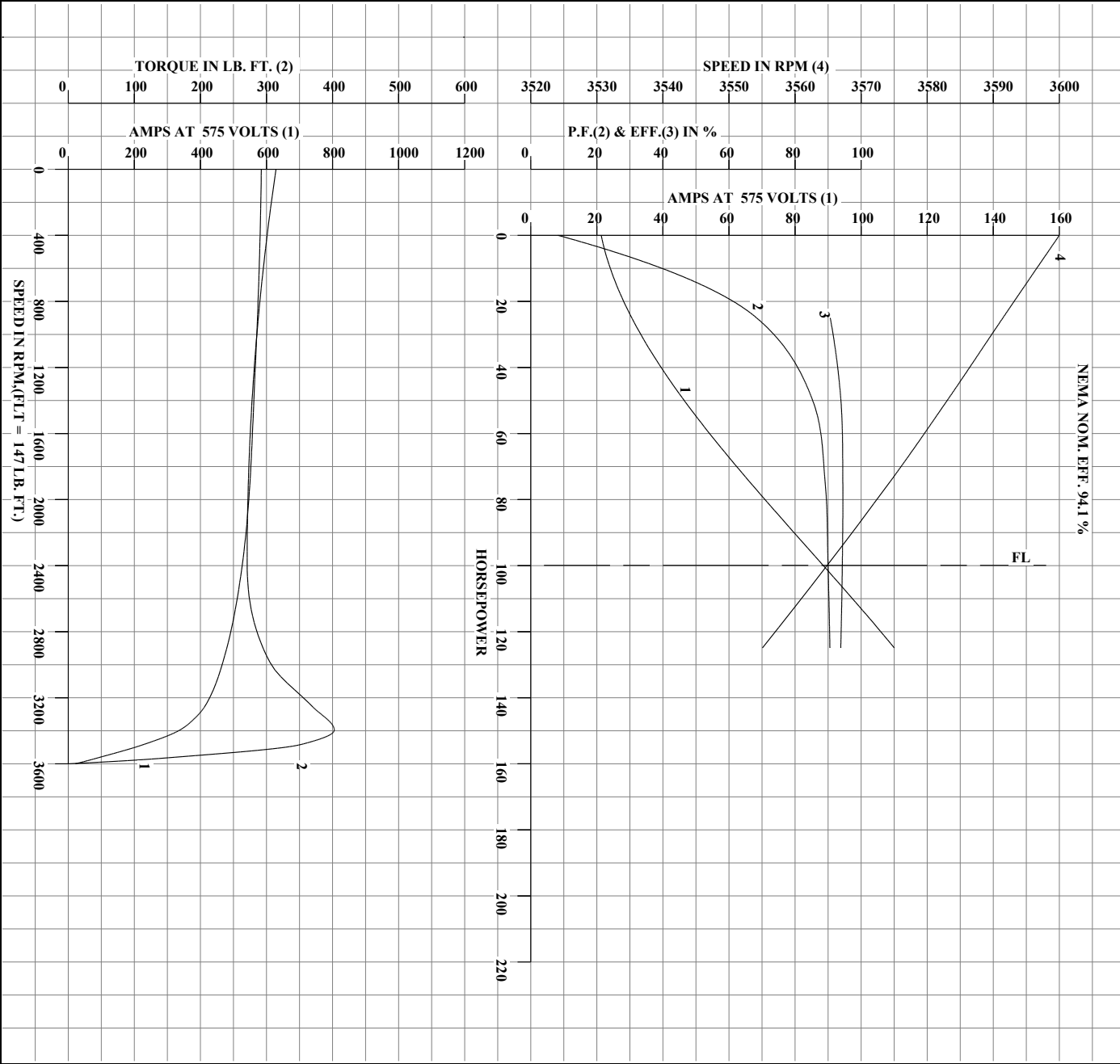
CAT NO	ECP84402T-5	SPEC NO.	A40-0001-5508
NO. ROTOR BARS	38	GREASE TYPE	POLYREX EM
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE	21.4
5 YEAR WARRANTY		WINDING RES @25 C	.0799
MFG. DATE		SER.NO	

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405TSC	100	P	3/60	3565	575
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
88	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
405508	418142005XE	---	---	.0799		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	21.4	3600	8.25	0	
1/4	25.0	30.2	3591	68.4	90.7	
2/4	50.0	46.8	3583	85.3	93.9	
3/4	75.0	66.7	3574	89.1	94.5	
4/4	99.9	88.2	3565	90.0	94.3	
5/4	125	110	3555	90.5	93.8	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	214	314	584	
PULL UP		2385	184	271	527	
BREAKDOWN		3396	273	403	337	
FULL LOAD		3565	100	147	88.2	
AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA NEMA NOM. EFF. 94.1 %						
		DRAWN BY: C.E. JAMISON CHECKED BY: C.E. JAMISON APPROVED BY: W.L. SMITH DATE: 05/03/19		AC MOTOR PERFORMANCE DATA	A400WG5508-R003 DATE ISSUED 01/21/21	

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REL.S.O.	405TSC	RPM 3565	S.F. 1.15	ROTOR 418142005XE
FRAME	100	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP	100	AMPS 88	CODE LETTER G	TEST DATE ---
TYPE	P	DUTY CONT	ENCLOSURE TEF	STATOR RES. @ 25°C .0799
PHASE / HERTZ	3/60	AMB °C / INSUL. 40/F	E/S 405508	OHMS (BETWEEN LINES)



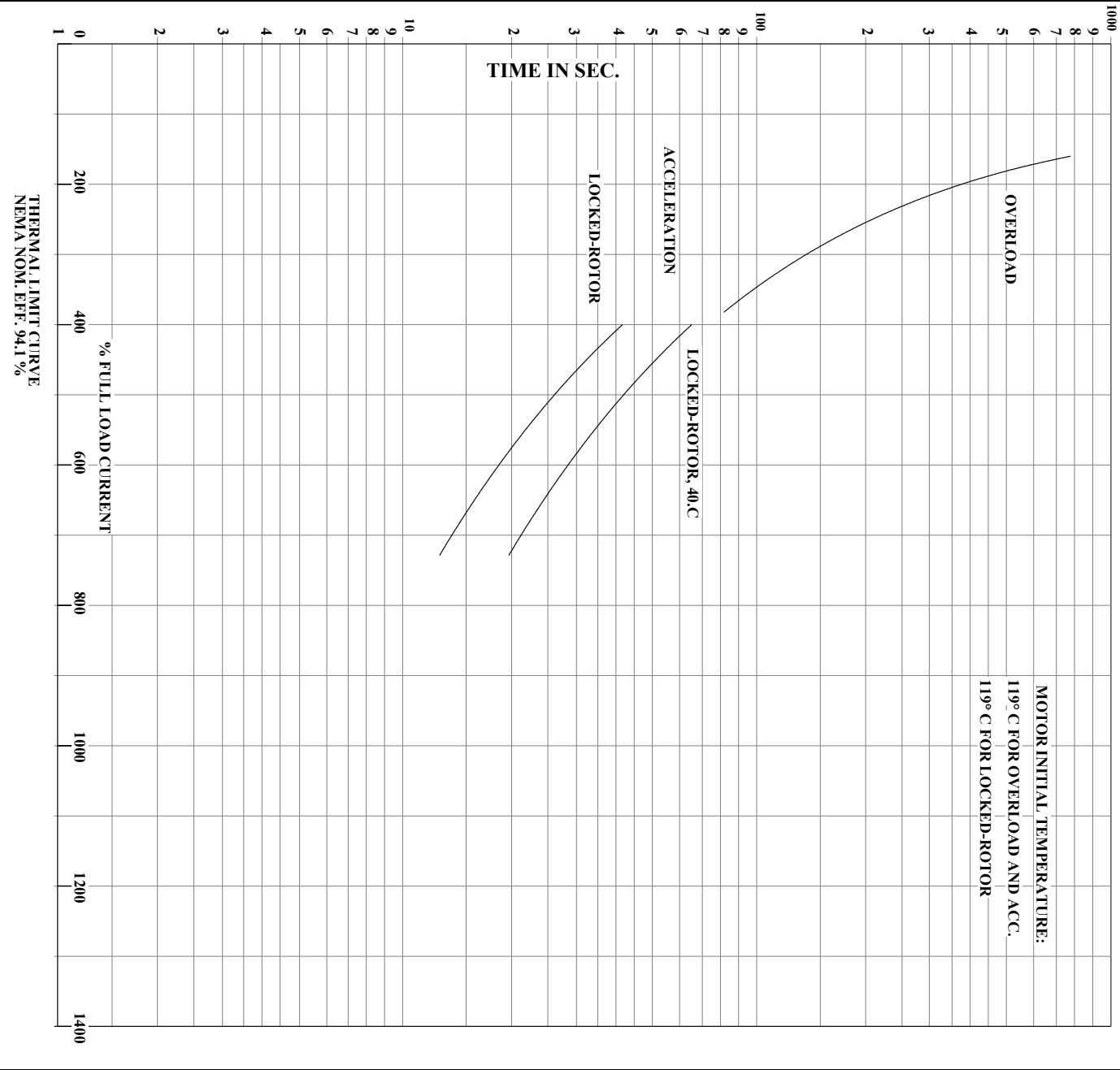
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REL.S.O.		RPM 3565	S.F. 1.15	ROTOR 418142005XE
FRAME 405TSC		VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 100		AMPS 88	CODE LETTER G	TEST DATE --
TYPE P		DUTY CONT	ENCLOSURE TEF C	STATOR RES. @ 25°C .0799
PHASE / HERTZ 3/60		AMB °C / INSUL 40/F	E/S 405508	OHMS (BETWEEN LINES)

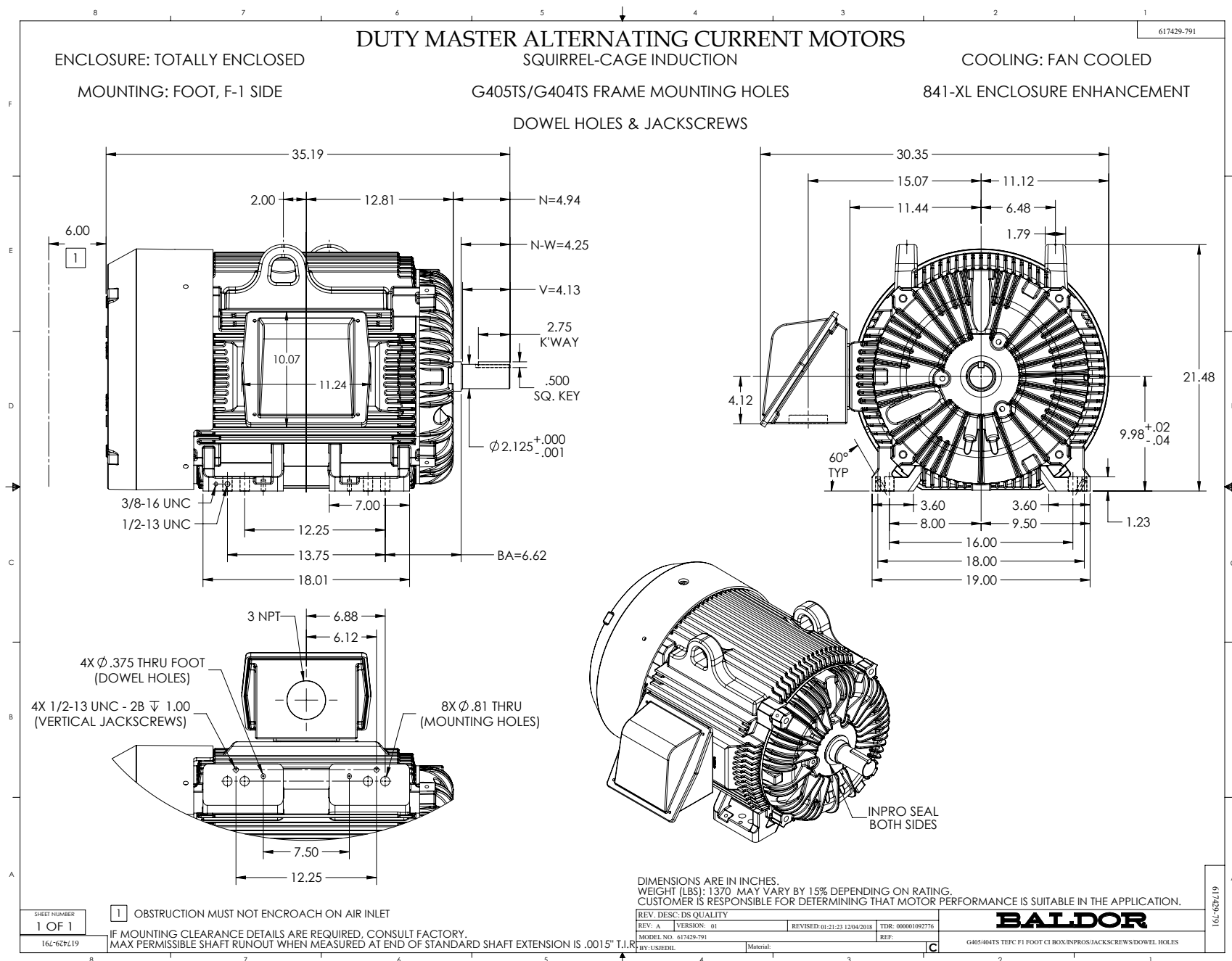


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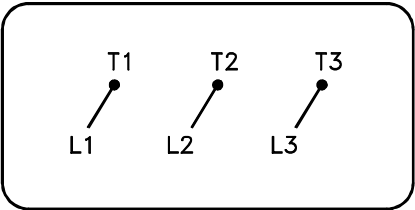
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416820-036

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

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