

ABB BALDOR RELIANCE III

Customer information packet

ECP84412T-4

125HP, 3570RPM, 3PH, 60HZ, 444TS, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	444TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CCSA US
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	137.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	137.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	F

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3534
Layout	617434-701
Eff. date	03-17-2026
CD Diagram	416820-036
Poles	02
Leads	3#2 (02 per group)
Proprietary	False
Created date	12-12-2018

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	None
Motor Type	A4468M
Mounting Arrangement	F1
No Load Current	30.4 a
Number of Poles	2
Overall Length	41.22 IN
Power Factor	89
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	Shaft Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

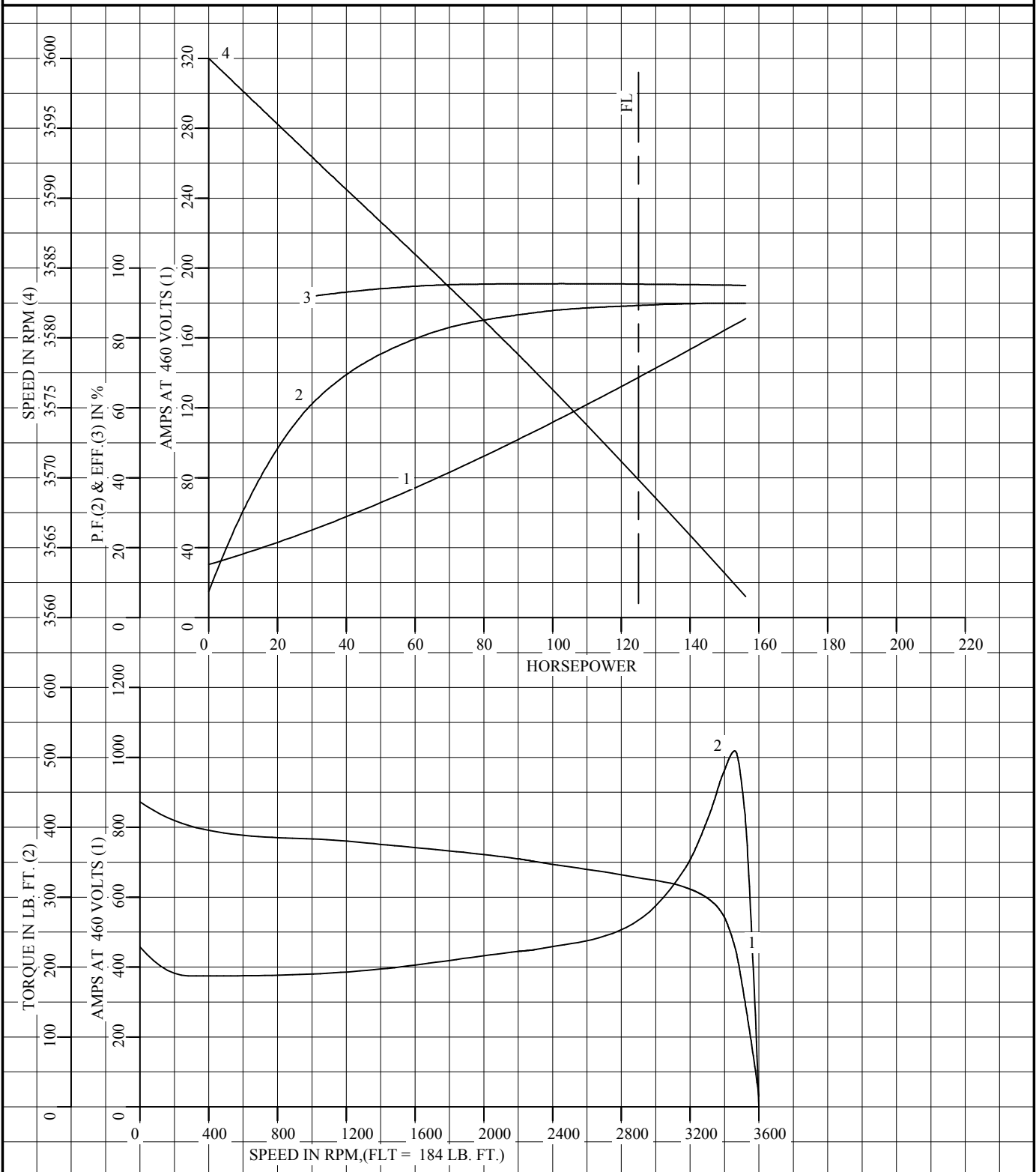
Nameplate

NP4566															
CAT NO	ECP84412T-4			SPEC NO.		A44-5000-3534									
HP	125	AMPS		137		VOLTS		460		DESIGN		B			
FRAME SIZE	444TS	RPM		3570		HZ		60	AMB		40	SF	1.15		
D.E. BRG.DATA	6313			O.D.E. BRG.DATA			6313			PH	3	DUTY	CONT	INSUL.CLASS	
D.E. BRG.	65BC03J30X			TYPE P		ENCL		TEFC	CODE		F				
O.D.E. BRG.	65BC03J30X			POWER FACTOR				89		NEMA-NOM-EFFICIENCY				95	
3/4 LOAD EFF.	94.9	IP	56	MAX CORR KVAR				18.0		GUARANTEED EFFICIENCY				94.1	
TEMP CODE	T3	TEMP =		200											
CHP HZ	60-75	CT HZ	15-60		VT HZ		0-60								
INVERTER-TEMP-CODE	T3														
SER.NO.				MOTOR WEIGHT											

000613007EX				
CAT NO	ECP84412T-4	SPEC NO.	A44-5000-3534	
NO. ROTOR BARS	40	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE		30.4
5 YEAR WARRANTY		WINDING RES @25 C	.03432	OHMS
MFG. DATE		SER.NO		

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	444TS	125	P	3/60	3570	460		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
137	CONT	40/F	1.15	B	F	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
-	418143-8-RE	---	---	.0343				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	30.4	3600	7.45	0			
1/4	31.3	51.0	3593	62.3	92.1			
2/4	62.5	76.5	3585	80.7	94.9			
3/4	93.8	106	3578	87.1	95.5			
4/4	125	137	3570	89.3	95.4			
5/4	156	171	3562	89.9	95.0			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	125	229	873			
PULL UP		288	102	187	804			
BREAKDOWN		3461	277	509	456			
FULL LOAD		3570	100	184	137			
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA								
		DR. BY	J. TSAO	A-C MOTOR PERFORMANCE DATA A44WG3534-R001 ISSUE DATE 04/05/21				
		CK. BY	T. KELATI					
		APP. BY	T. KELATI					
		DATE	08/10/11					

REL S.O.	RPM 3570	S.F. 1.15	ROTOR 418143-8-RE
FRAME 444TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 137	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0343
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



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

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J. TSAO
CK. BY T. KELATI
APP. BY T. KELATI
DATE 08/10/11

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG3534-R001

ISSUE DATE 04/05/21 Page 7 of 11

REL. S.O.

FRAME **444TS**

HP **125**

TYPE **P**

PHASE/HERTZ **3/60**

RPM **3570**

VOLTS **460**

AMPS **137**

DUTY **CONT**

AMB °C/INSUL **40/F**

S.F. **1.15**

NEMA DESIGN **B**

CODE LETTER **F**

ENCLOSURE **TEFC**

E/S **-**

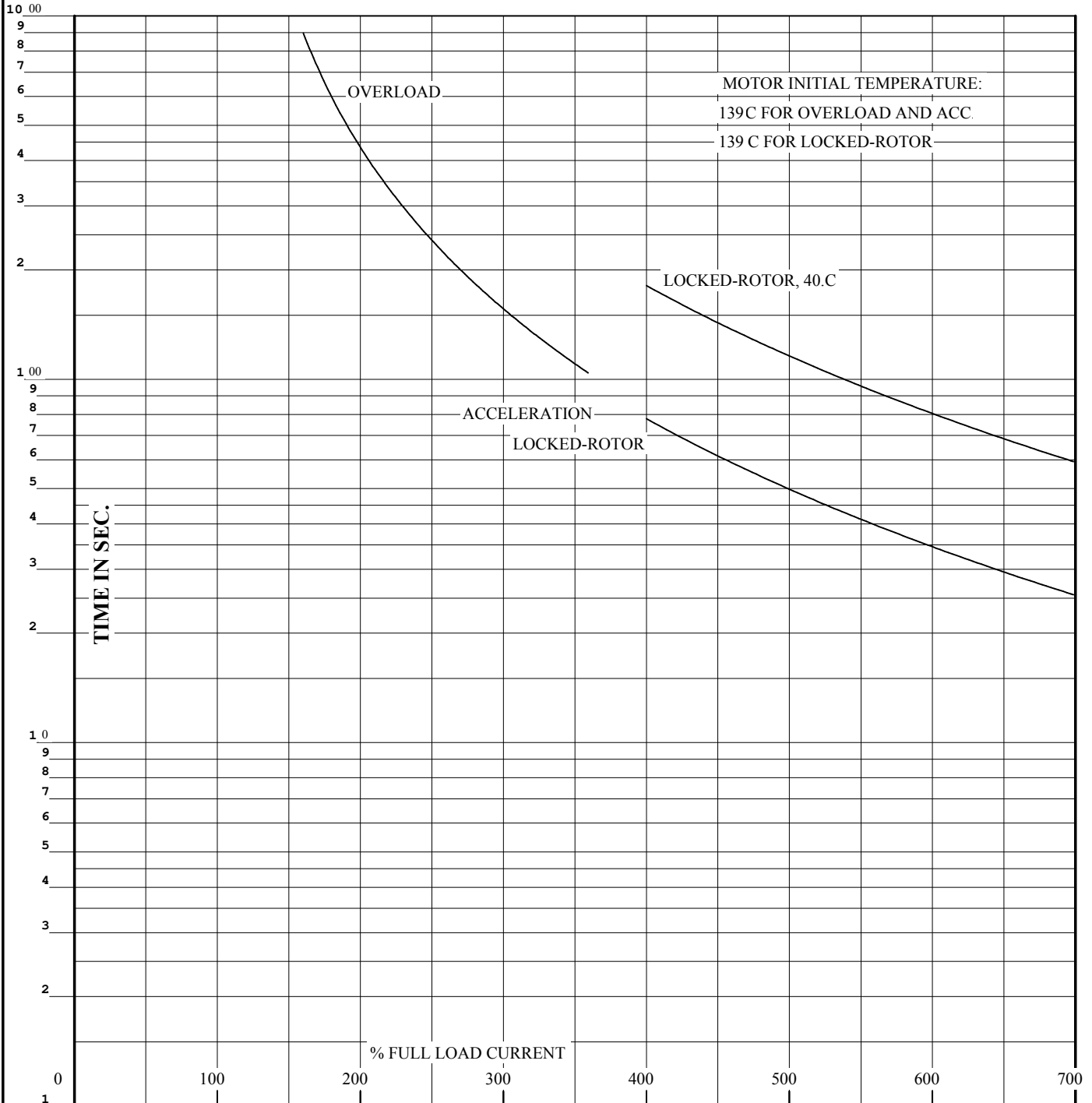
ROTOR **418143-8-RE**

TEST S.O. **TYPICAL DATA**

TEST DATE **---**

STATOR RES. @ 25 °C **.0343**

OHMS (BETWEEN LINES)


THERMAL LIMIT CURVE

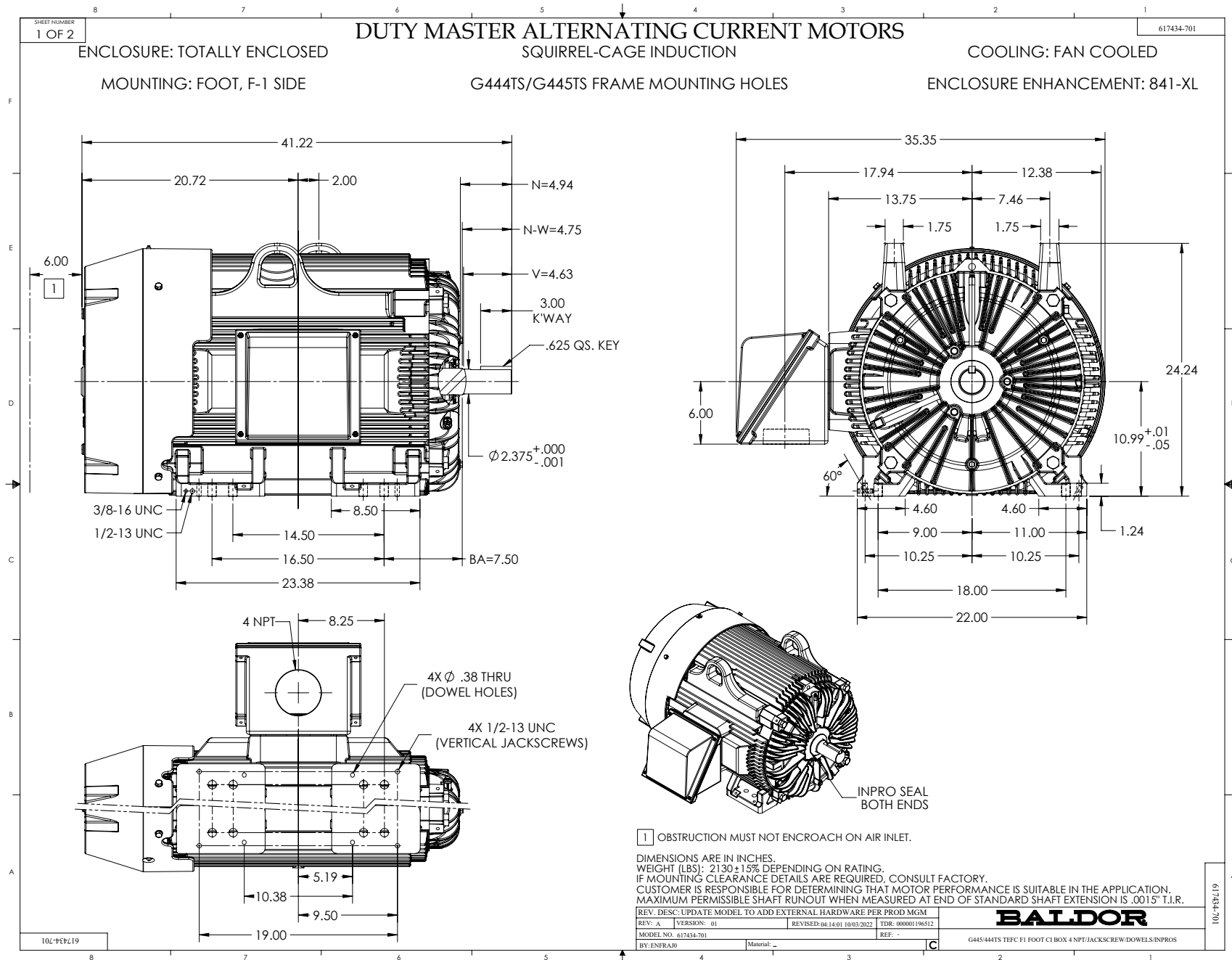
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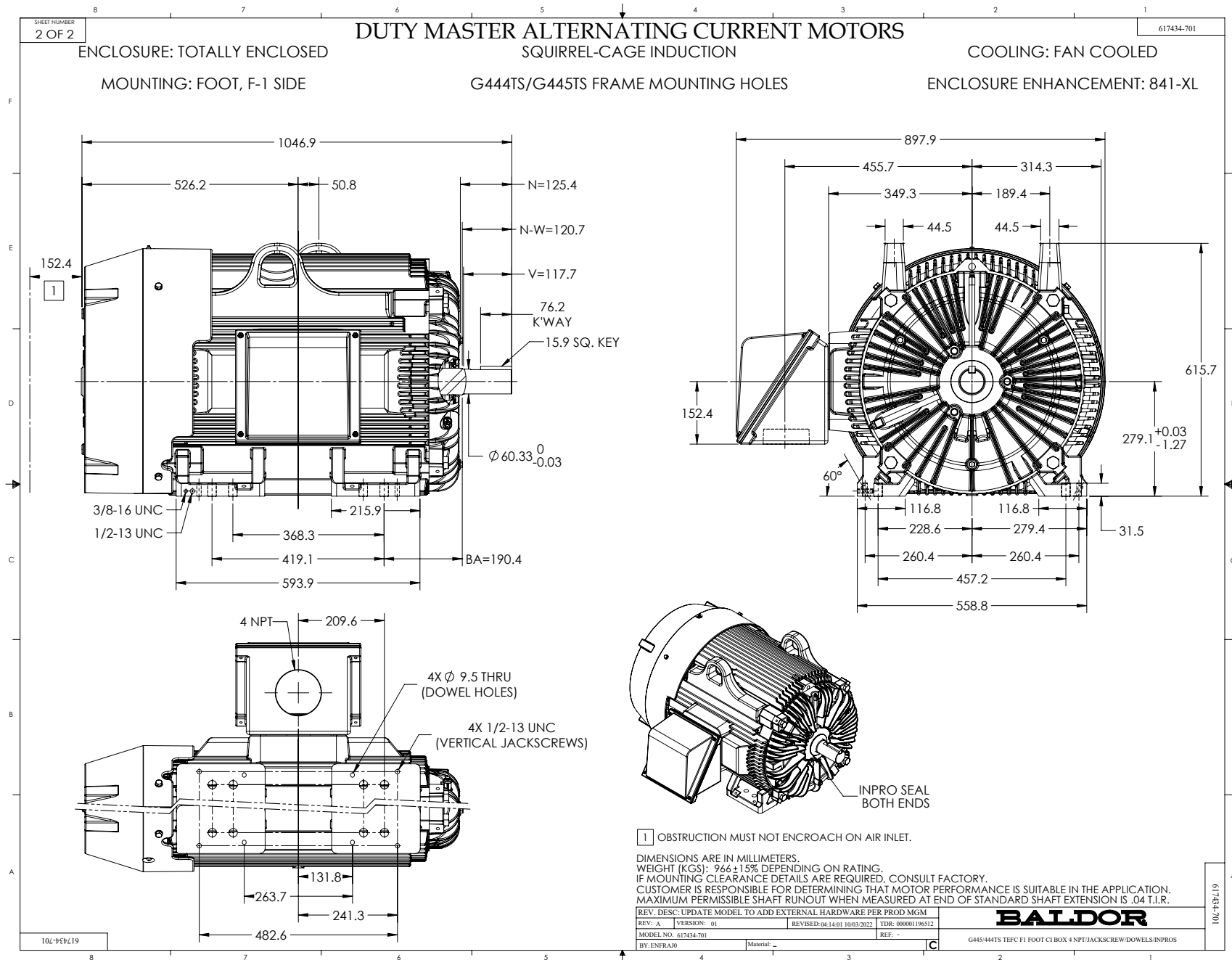
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CK. BY T. KELATI
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**A-C MOTOR
PERFORMANCE
CURVES**
A44WG3534-R001

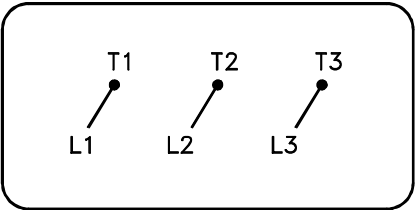
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416820-036

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
SH 1 of 1