

ABB BALDOR RELIANCE III

Customer information packet

ECP84413T-5

150HP, 3570RPM, 3PH, 60HZ, 445TS, A4478M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445TS
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US UR
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	131.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	131.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4880
Layout	617434-659
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	02
Leads	3#1
Proprietary	False
Created date	03-14-2022

Motor Standards	None
Motor Type	A4478M
Mounting Arrangement	F1
No Load Current	28.0 a
Number of Poles	2
Overall Length	41.22 IN
Power Factor	90
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	Reversible
Shaft Slinger Indicator	No 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	ECP84413T-5			SPEC NO.		A44-0000-4880							
HP	150	AMPS		131		VOLTS		575		DESIGN		B	
FRAME SIZE	445TS	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 ENCL		TEFC		CODE G					
O.D.E. BRG.	65BC03J30X			POWER FACTOR				90		NEMA-NOM-EFFICIENCY 95			
3/4 LOAD EFF.	95.7	IP 56		MAX CORR KVAR				20		GUARANTEED EFFICIENCY 94.1			
TEMP CODE	T3	TEMP =		200									
CHP HZ	60-75	CT HZ		10-60		VT HZ		0-60					
INVERTER-TEMP-CODE	T3												
SER.NO.				MOTOR WEIGHT									

000613007EX				
CAT NO	ECP84413T-5	SPEC NO.	A44-0000-4880	
NO. ROTOR BARS	40	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE		28
5 YEAR WARRANTY		WINDING RES @25 C	0.045	OHMS
MFG. DATE		SER.NO		

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
	445TS	150	P	3/60	3570	575			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
131	CONT	40/F	1.15	B	G	TEFC			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
498934	418143-8BE	---	---	.0457					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	27.7	3600	6.89	0				
1/4	37.5	47.4	3593	63.9	92.9				
2/4	75.1	72.2	3585	81.7	95.3				
3/4	113	100	3578	87.8	95.7				
4/4	150	131	3570	89.9	95.6				
5/4	187	163	3562	90.4	95.2				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	138	304	865				
PULL UP		288	110	242	797				
BREAKDOWN		3461	280	618	442				
FULL LOAD		3570	100	221	131				
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.									
		DR. BY G. R. WEBB		A-C MOTOR PERFORMANCE DATA					
		CK. BY W. L. SMITH							
		APP. BY W. L. SMITH							
		DATE 03/11/13							
				A44WG4880-R001 ISSUE DATE 03/11/13					

FRAME 445TS

RPM 3570

VOLTS 575

NEMA DESIGN B

TEST S.O. CALCULATED DATA

HP 150

AMPS 131

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

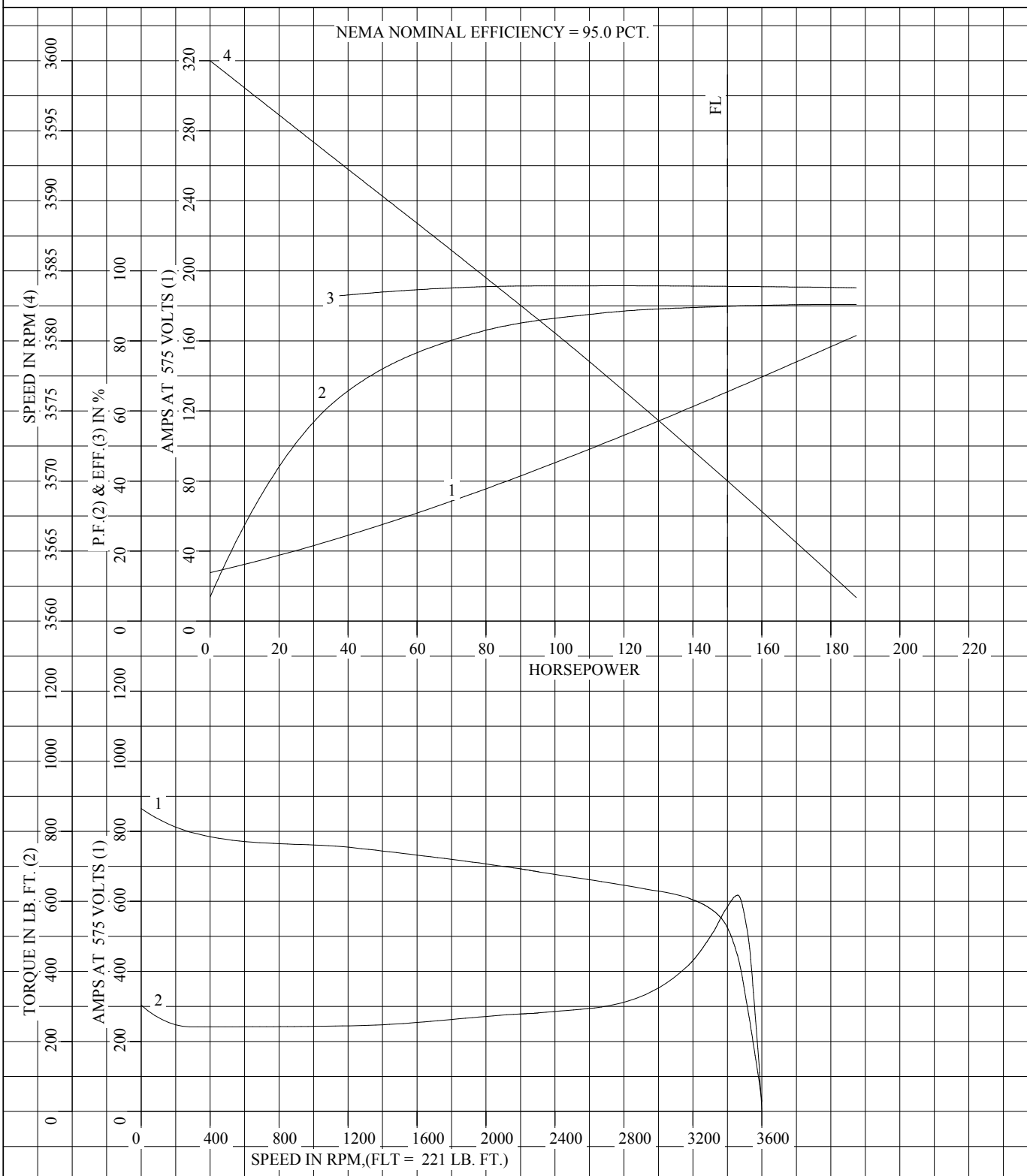
STATOR RES. @ 25 °C .0457

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 498934

OHMS (BETWEEN LINES)

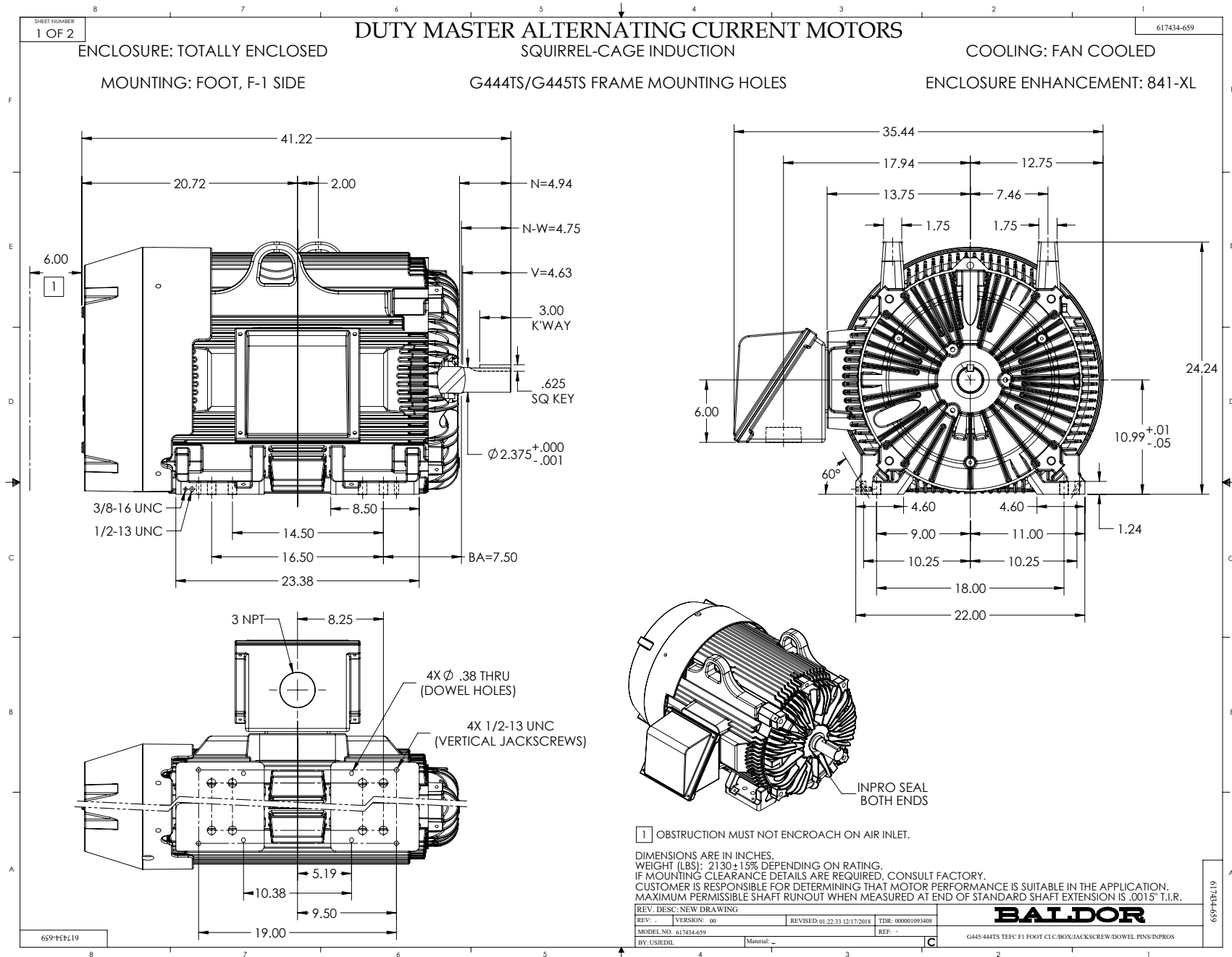


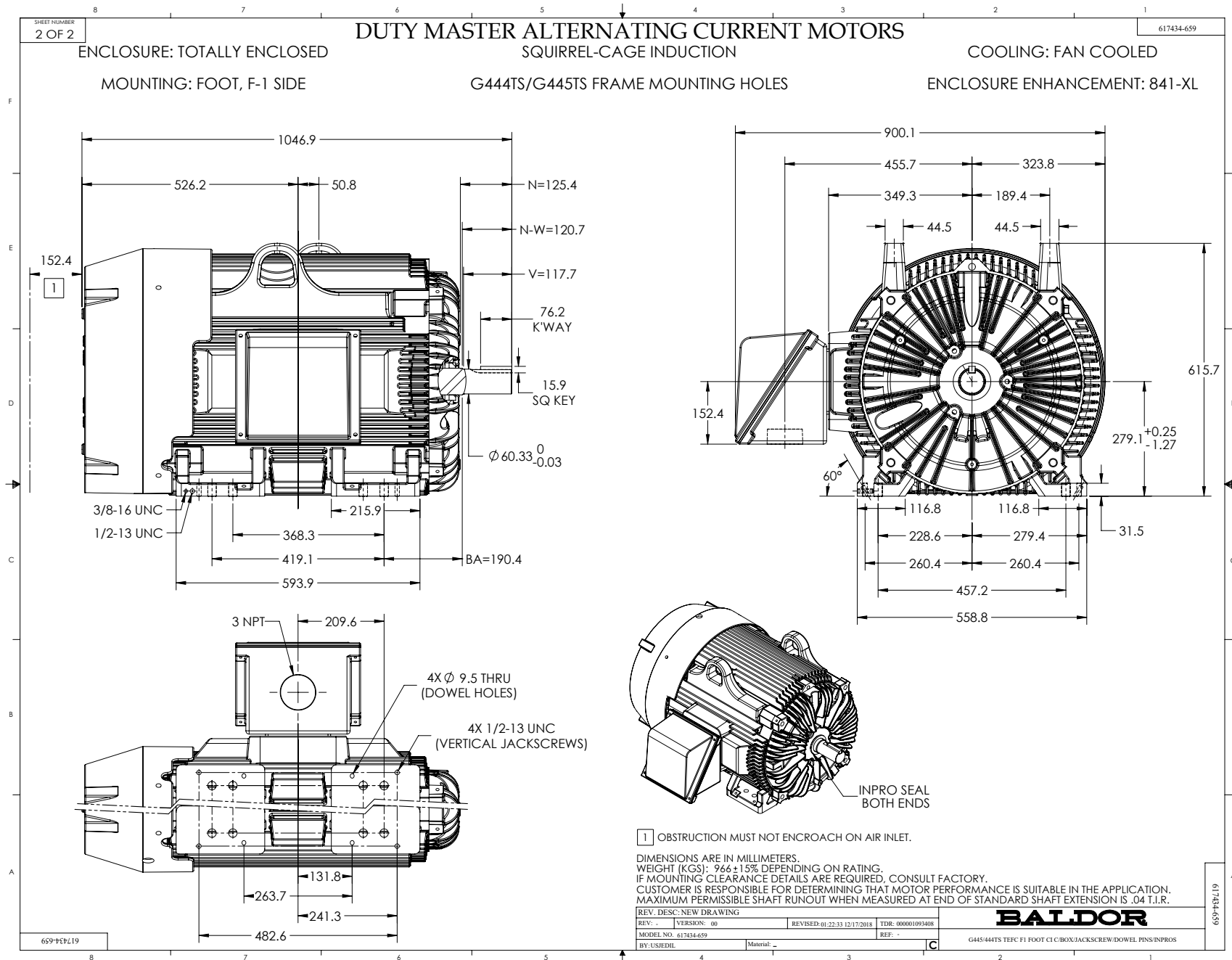
AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 03/11/13

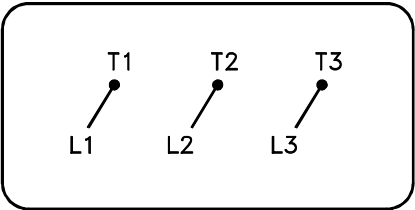
**A-C MOTOR
PERFORMANCE
CURVES** A44WG4880-R001
ISSUE DATE 03/11/13





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