

ABB BALDOR RELIANCE III

Customer information packet

ECP844156TR-5

150HP, 1190RPM, 3PH, 60HZ, 447T, TEFC, FOOT,
Class - CLI GP A,B,C,D
Division - Division II

Specifications

Enclosure	TEFC
Frame	447T
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	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	15-60
Current @ Voltage	136.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	136.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	F

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1357
Layout	617434-663
Eff. date	12-11-2023
CD Diagram	416820-036
Poles	06
Leads	3#1
Proprietary	False
Created date	12-11-2018

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	Other
Motor Type	A44120M
Mounting Arrangement	F1
No Load Current	34.0 a
Number of Poles	6
Overall Length	48.46 IN
Power Factor	86
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566														
CAT NO	ECP844156TR-5			SPEC NO.		A44-7002-1357								
HP	150	AMPS		136		VOLTS		575		DESIGN		B		
FRAME SIZE	447T	RPM		1190		HZ		60	AMB		40	SF 1.15		
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA			6318		PH		3	DUTY		CONT	INSUL.CLASS
D.E. BRG.	110RU02M30X			TYPE ENCL		TEFC		CODE		F				
O.D.E. BRG.	90BC03J30X			POWER FACTOR			86		NEMA-NOM-EFFICIENCY			95.8		
3/4 LOAD EFF.	96.2	IP 56		MAX CORR KVAR			25.0		GUARANTEED EFFICIENCY			95		
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	ECP844156TR-5	SPEC NO.	A44-7002-1357	
NO. ROTOR BARS	71	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		34.0
5 YEAR WARRANTY		WINDING RES @25 C	.0507	OHMS
MFG. DATE		SER.NO		

NP2496L	
MOBIL SHC -220 GREASE	

ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET					
	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447T	150	P	3/60	1190	575

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
136	CONT	40/F	1.15	B	F	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
833174	418143080ME	---	---	.0507

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	34.0	1200	3.70	0
1/4	37.6	52.4	1197	56.6	94.9
2/4	75.1	76.0	1194	76.9	96.3
3/4	112	104	1191	83.9	96.2
4/4	150	136	1188	86.3	95.8
5/4	188	170	1184	86.8	95.1

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	121	799	820
PULL UP	180	97.2	644	802
BREAKDOWN	1150	236	1563	474
FULL LOAD	1188	100	663	136

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

CALCULATED DATA

NEMA NOMINAL EFFICIENCY = 95.8 PCT.



DRAWN BY: W. L. SMITH
 CHECKED BY: J.J.HARRISON
 APPROVED BY: W. L. SMITH
 DATE: 04/27/10

AC MOTOR
PERFORMANCE
DATA

A44WG1357-R001

DATE ISSUED 04/27/10

FRAME 447T

HP 150

TYPE P

PHASE / HERTZ 3/60

CUSTOMER INFORMATION PACKET

RPM 1190

VOLTS 575

AMPS 136

DUTY CONT

AMB °C / INSUL 40/F

ECP844156TR-5 150HP, 1190RPM, 3PH, 60HZ, 447T, TEFC, 5000

S.F. 1.15

NEMA DESIGN B

CODE LETTER F

ENCLOSURE TEFC

E/S 833174

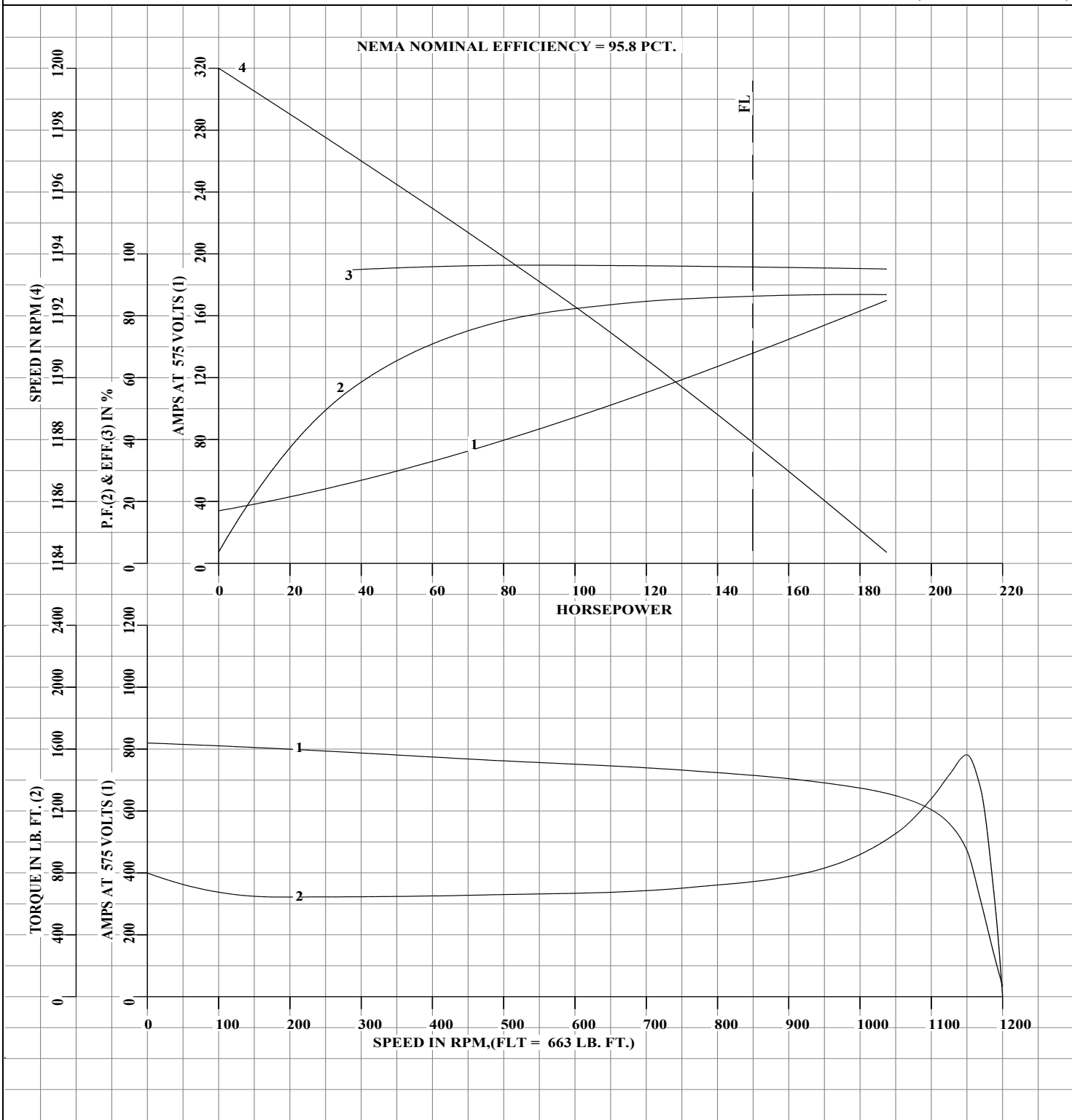
ROTOR 418143080ME

TEST S.O. CALCULATED DATA

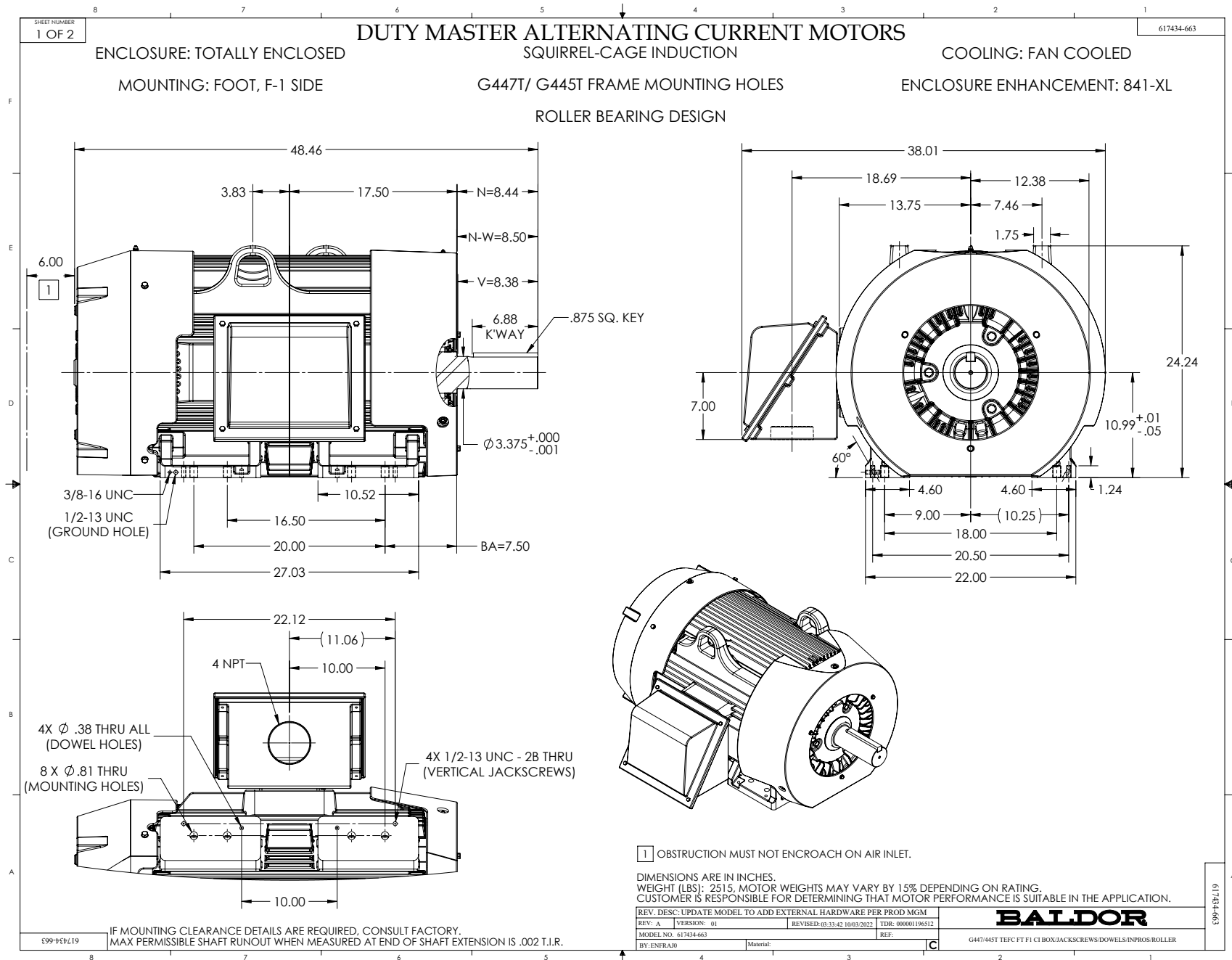
TEST DATE ---

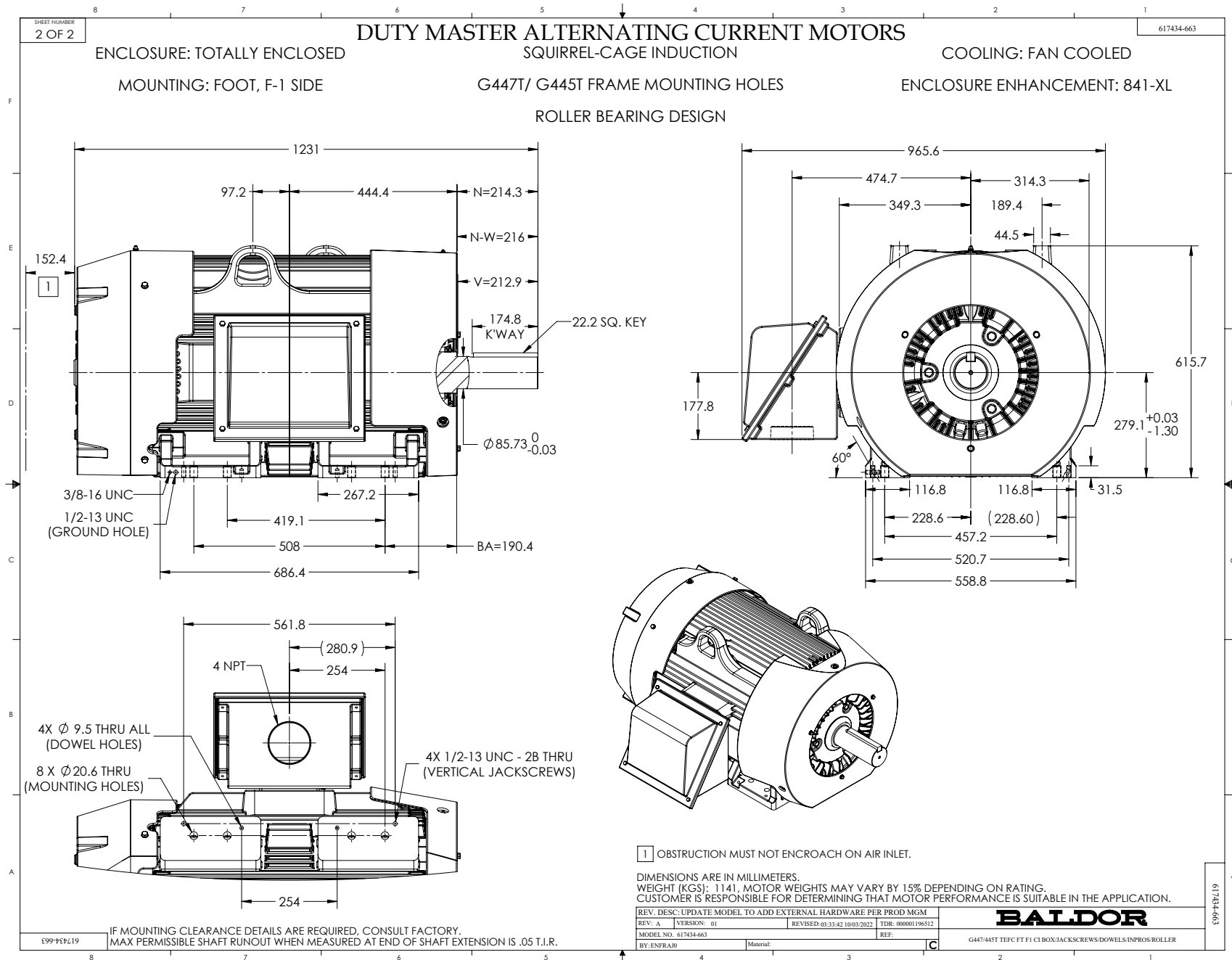
STATOR RES. @ 25°C .0507

OHMS (BETWEEN LINES)



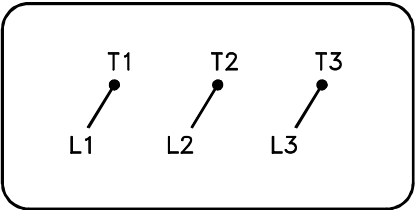
AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.





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