

ABB BALDOR RELIANCE III

Customer information packet

ECP84416T-4

200HP, 3600RPM, 3PH, 60HZ, 447TS, TEFC, FOOT,

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	447TS
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	200.000 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	30-60
Current @ Voltage	213.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	213.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1504
Layout	617435-474
Eff. date	03-15-2024
CD Diagram	416820-036
Poles	02
Leads	3#1 (02 per group)
Proprietary	False
Created date	12-11-2018

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1 AWG
Motor Standards	None
Motor Type	A44104M
Mounting Arrangement	F1
No Load Current	41.6 a
Number of Poles	2
Overall Length	44.72 IN
Power Factor	91
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	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	ECP84416T-4			SPEC NO.		A44-9097-1504							
HP	200	AMPS	213		VOLTS		460		DESIGN		B		
FRAME SIZE	447TS	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			91		NEMA-NOM-EFFICIENCY			96.2		
3/4 LOAD EFF.	96.3	IP	56	MAX CORR KVAR			21.0		GUARANTEED EFFICIENCY			95.4	
TEMP CODE	T3	TEMP =	200										
CHP HZ	60-75	CT HZ	30-60		VT HZ	0-60							
INVERTER-TEMP-CODE	T3												
SER.NO.				MOTOR WEIGHT									

000613007EX				
CAT NO	ECP84416T-4	SPEC NO.	A44-9097-1504	
NO. ROTOR BARS	40	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE		41.6
5 YEAR WARRANTY		WINDING RES @25 C	.01446	OHMS
MFG. DATE		SER.NO		

ECP84416T-4 - 200HP, 3600RPM, 3PH, 60HZ, 447TS, TEFC, FOOT,						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447TS	200	P	3/60	3570	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
213	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833199	418143005AE	---	---	.0144		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	46.4	3600	5.92	0	
1/4	50.0	78.6	3593	63.5	93.9	
2/4	100	118	3586	82.6	96.0	
3/4	150	164	3578	88.7	96.3	
4/4	200	213	3571	91.1	96.2	
5/4	250	265	3562	92.0	95.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	151	444	1446		
PULL UP	288	124	363	1331		
BREAKDOWN	3462	281	825	730		
FULL LOAD	3571	100	294	213		
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA						
		DRAWN BY: <u>W. L. SMITH</u>		AC MOTOR PERFORMANCE DATA		A44WG1504-R001 DATE ISSUED 12/18/10
		CHECKED BY: <u>J.J.HARRISON</u>				
		APPROVED BY: <u>W. L. SMITH</u>				
		DATE: <u>08/04/10</u>				

FRAME 447TS

RPM 3570

S.F. 1.15

TEST S.O. TYPICAL DATA

HP 200

VOLTS 460

NEMA DESIGN B

TEST DATE ---

TYPE P

AMPS 213

CODE LETTER G

STATOR RES. @ 25°C .0144

PHASE / HERTZ 3/60

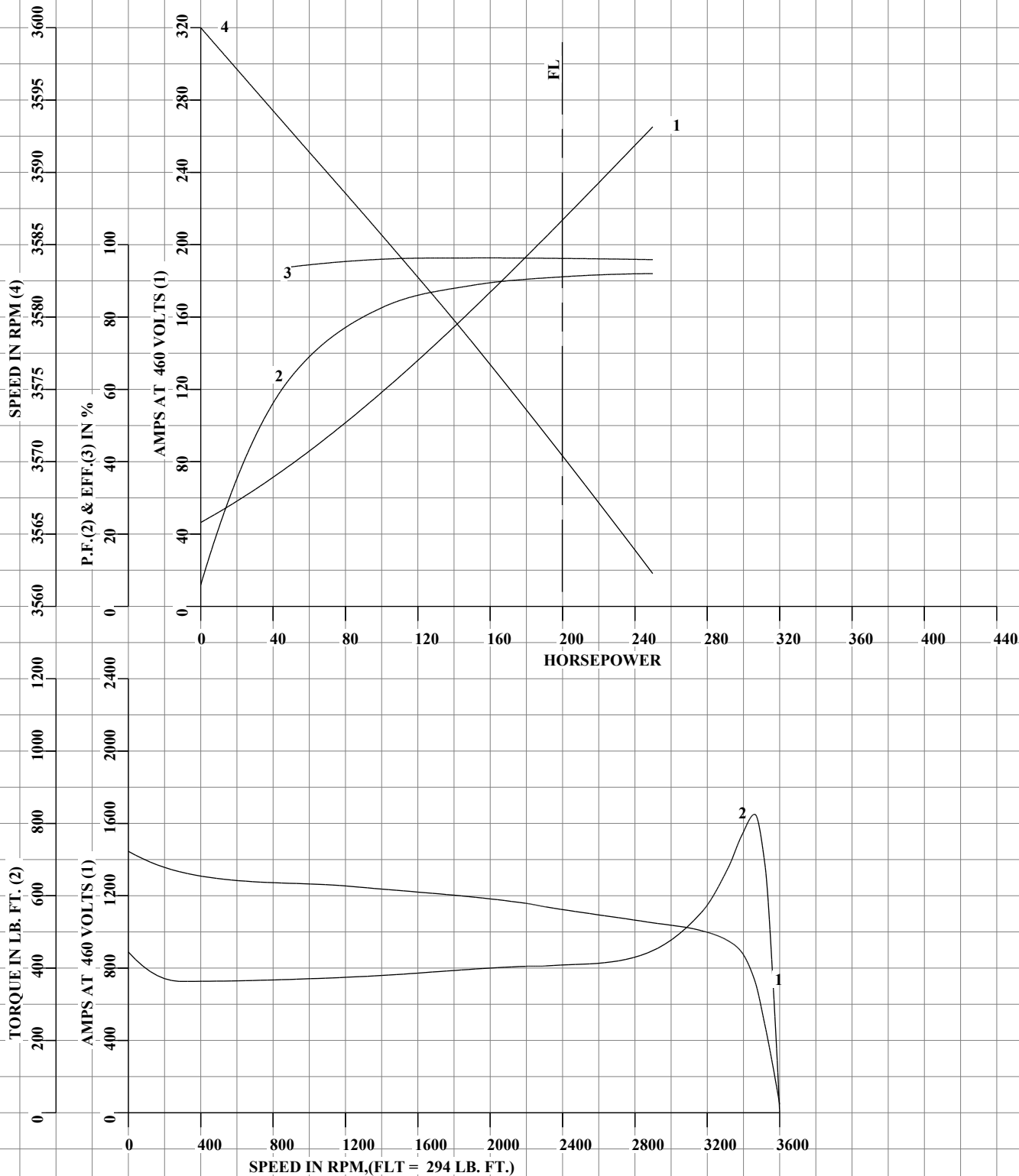
DUTY CONT

ENCLOSURE TEFC

OHMS (BETWEEN LINES)

AMB °C / INSUL 40/F

E/S 833199



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



DRAWN BY: W. L. SMITH
 CHECKED BY: J.J.HARRISON
 APPROVED BY: W. L. SMITH
 DATE: 08/04/10

AC MOTOR
 PERFORMANCE
 DATA

A44WG1504-R001

ISSUE DATE 12/18/10

FRAME 447TS

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 200

AMPS 213

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

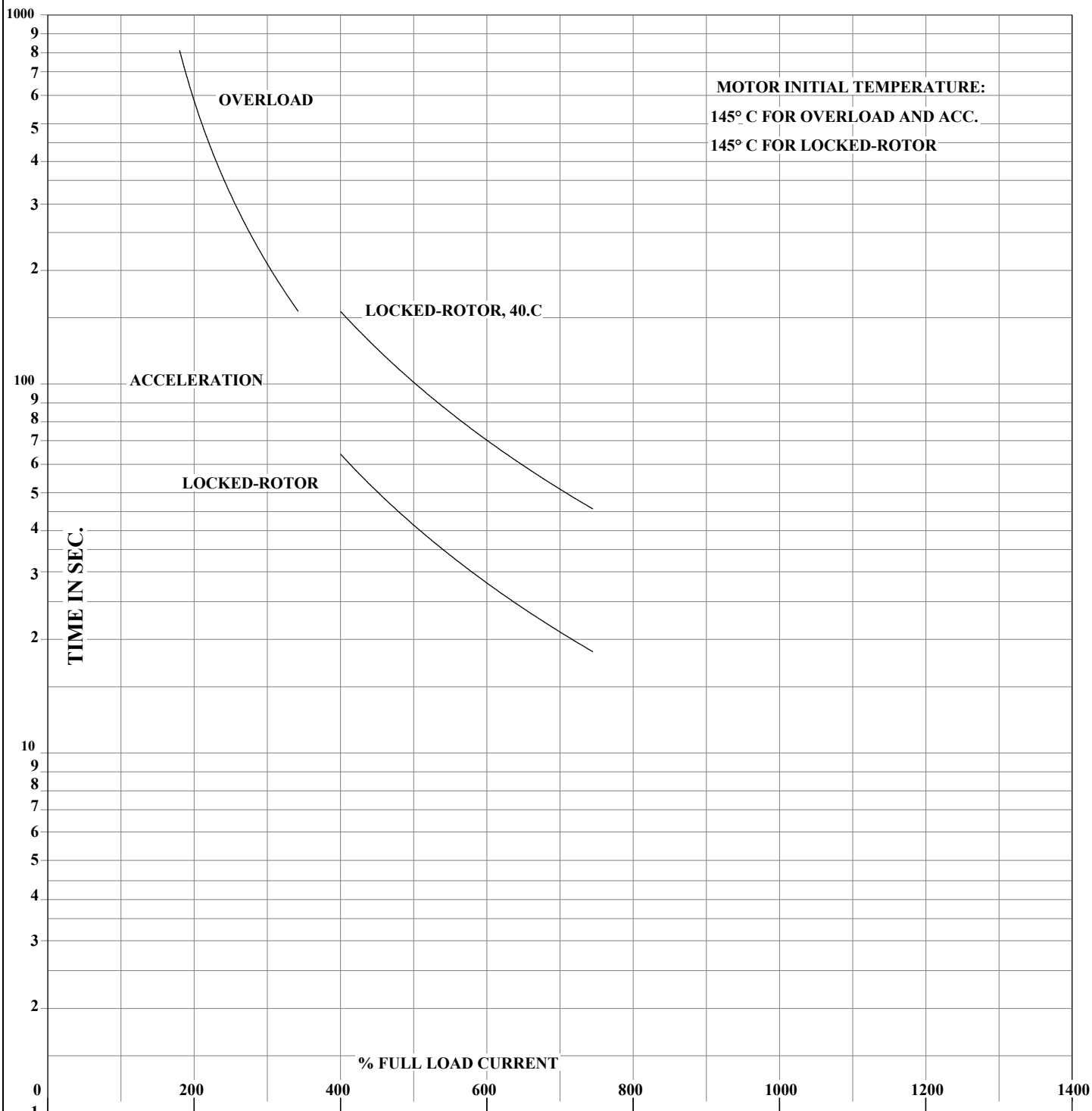
STATOR RES. @ 25°C .0144

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 833199

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

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

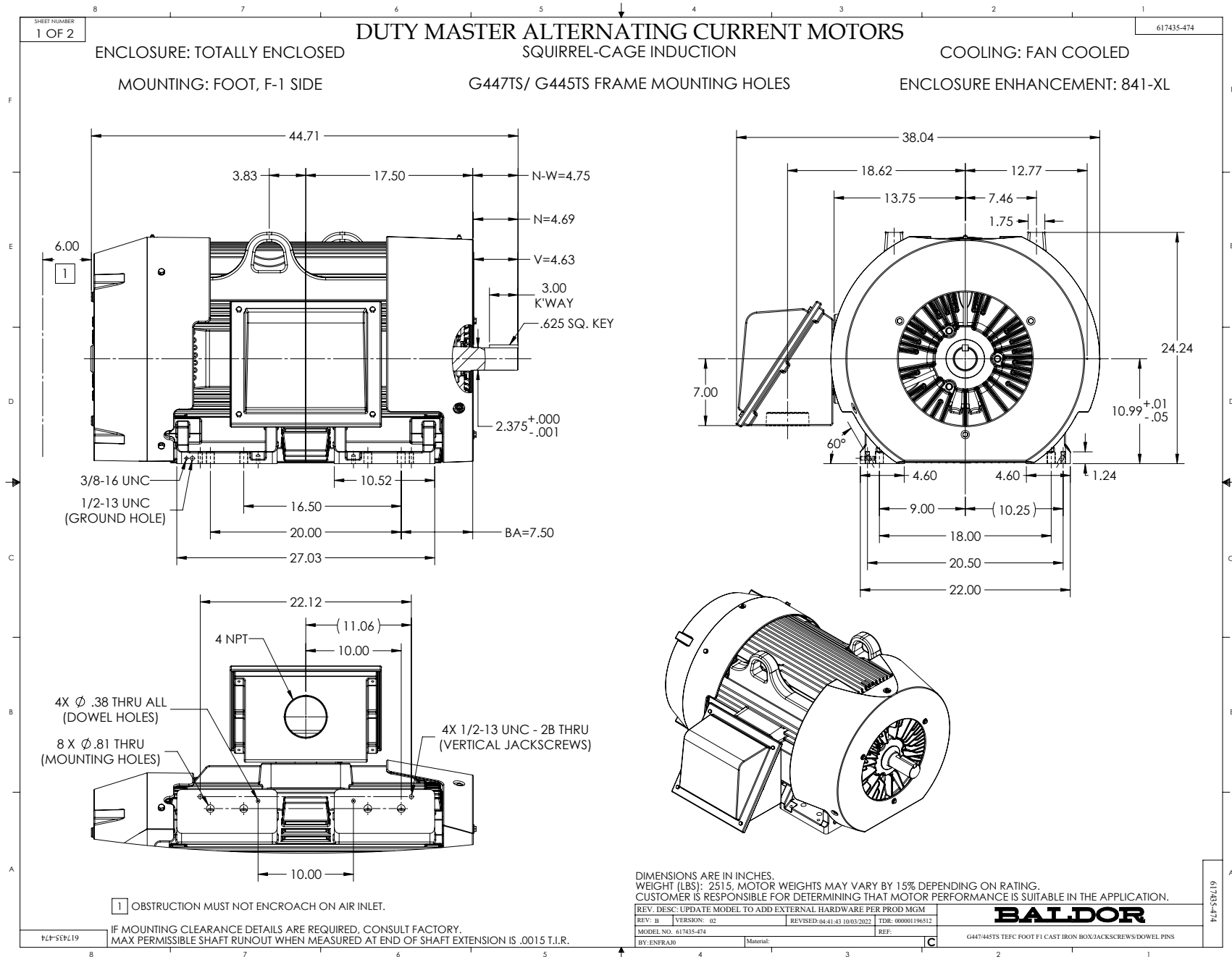


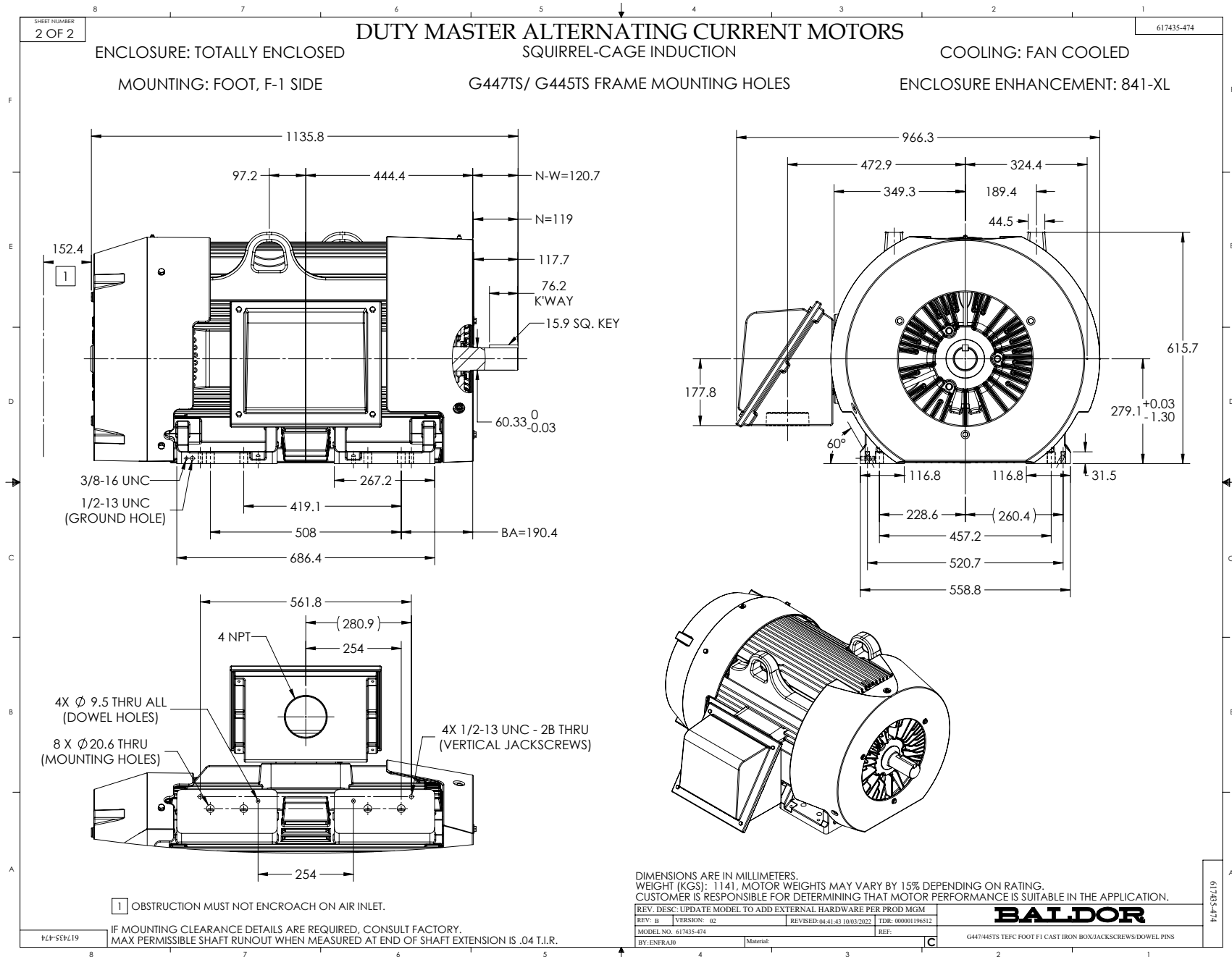
DRAWN BY: W. L. SMITH
CHECKED BY: J.J.HARRISON
APPROVED BY: W. L. SMITH
DATE: 08/04/10

AC MOTOR
PERFORMANCE
DATA

A44WG1504-R001

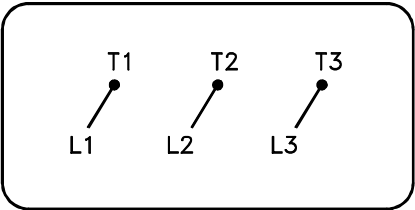
ISSUE DATE 12/18/10





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