

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		

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					ECP84416T-4 - 200HP, 3600RPM, 3PH, 60HZ, 447TS, TEFC, FOOT,				
		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

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

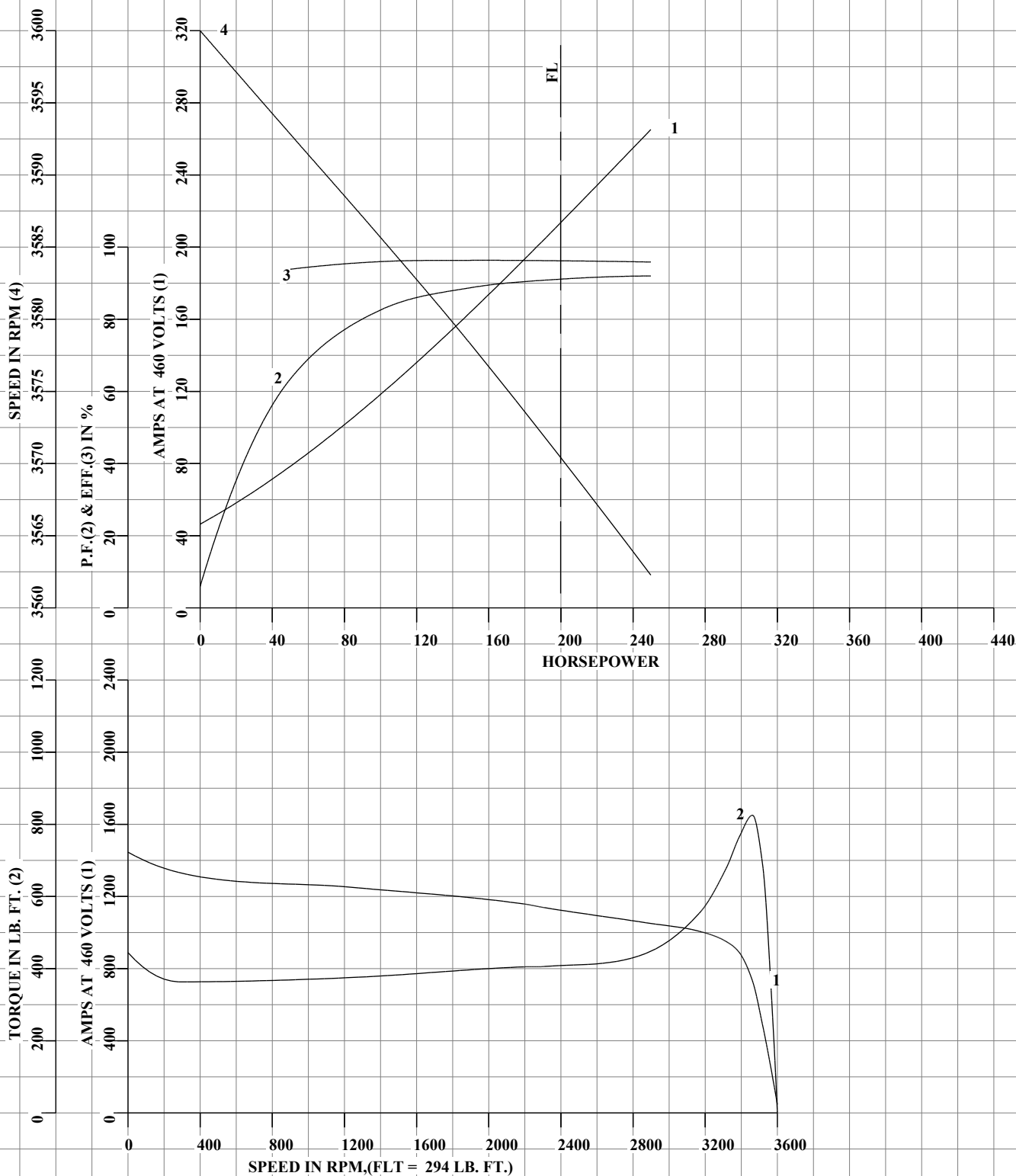
STATOR RES. @ 25°C .0144

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 833199

OHMS (BETWEEN LINES)



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AC MOTOR
 PERFORMANCE
 DATA

A44WG1504-R001

ISSUE DATE 12/18/10

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

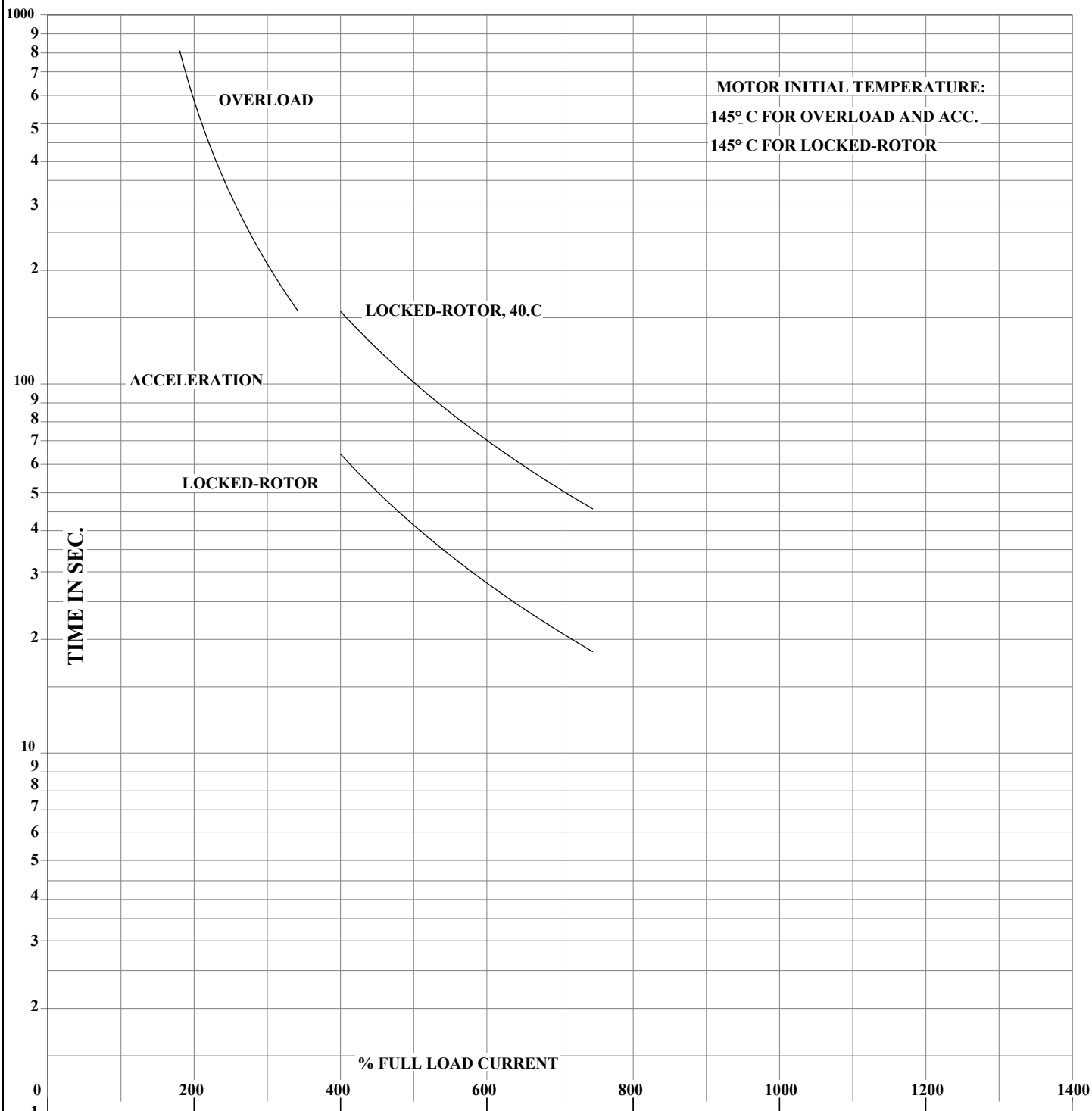
DUTY CONT

ENCLOSURE TEFC

OHMS (BETWEEN LINES)

AMB °C / INSUL 40/F

E/S 833199



THERMAL LIMIT CURVE

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

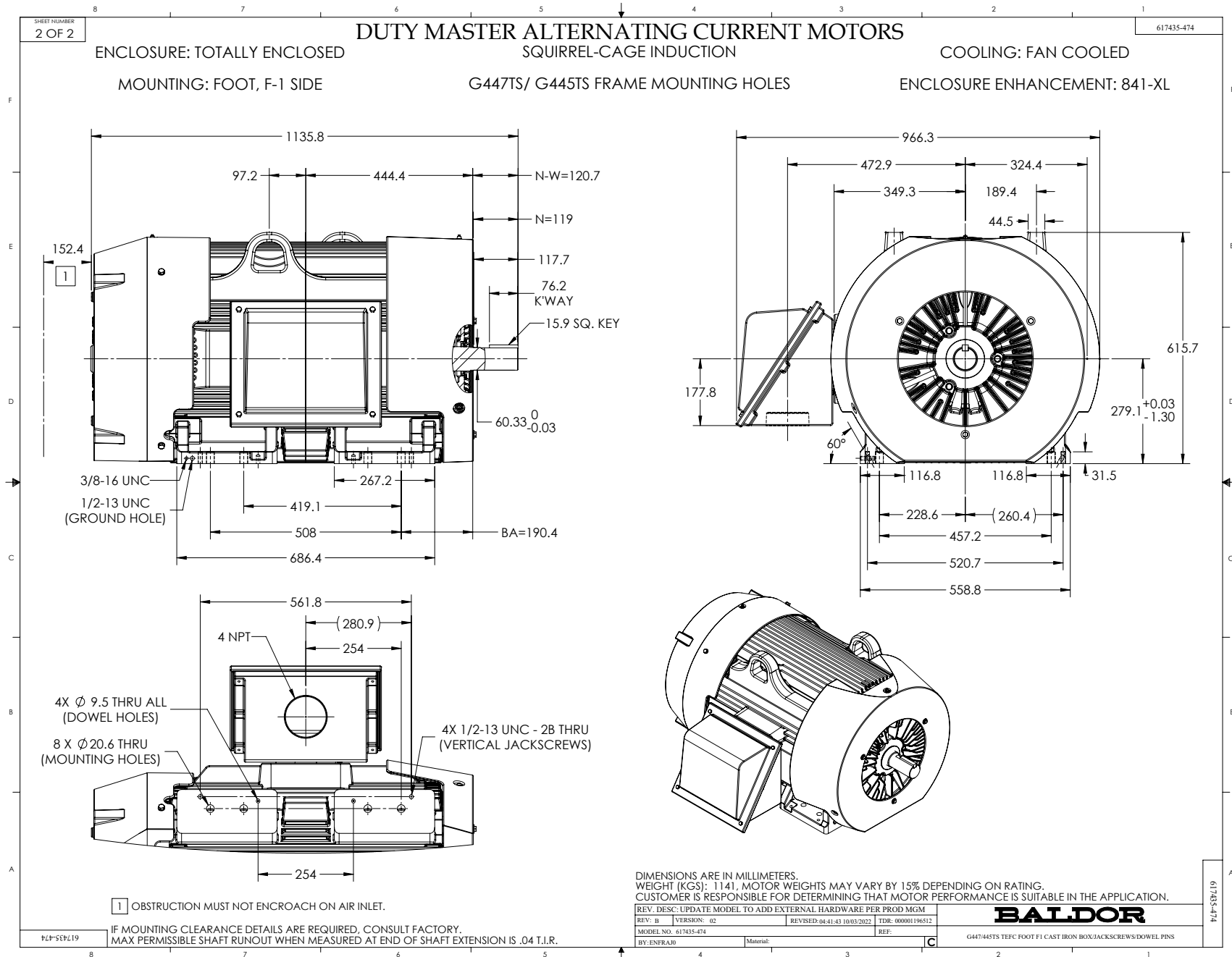


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AC MOTOR
PERFORMANCE
DATA

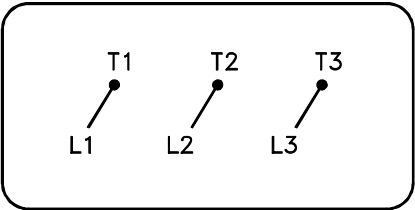
A44WG1504-R001

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