

ABB BALDOR RELIANCE III

Customer information packet

ECP84416T-5

200HP, 3575RPM, 3PH, 60HZ, 447TS, A44104M, TEF

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	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	30-60
Current @ Voltage	172.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	172.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3931
Layout	617435-474
Eff. date	06-14-2024
CD Diagram	416820-036
Poles	02
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	03-14-2022

Motor Standards	None
Motor Type	A44104M
Mounting Arrangement	F1
No Load Current	38.6 a
Number of Poles	2
Overall Length	44.72 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	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	3575 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566													
CAT NO	ECP84416T-5			SPEC NO.		A44-0000-3931							
HP	200	AMPS	172		VOLTS		575		DESIGN	B			
FRAME SIZE	447TS	RPM	3575	HZ		60	AMB	40	SF	1.15			
D.E. BRG.DATA	6313		O.D.E. BRG.DATA			6313		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	65BC03J30X			TYPE	ENCL	TEFC	CODE	G					
O.D.E. BRG.	65BC03J30X			POWER FACTOR			90		NEMA-NOM-EFFICIENCY			95.4	
3/4 LOAD EFF.		IP	56	MAX CORR KVAR			24.34		GUARANTEED EFFICIENCY			94.5	
TEMP CODE	T2C	TEMP =	230										
CHP HZ	60-75	CT HZ	30-60	VT HZ		0-60							
INVERTER-TEMP-CODE	T2C												
SER.NO.				MOTOR WEIGHT									

000613007EX				
CAT NO	ECP84416T-5	SPEC NO.	A44-0000-3931	
NO. ROTOR BARS	40	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE		38.6
5 YEAR WARRANTY		WINDING RES @25 C	.0227	OHMS
MFG. DATE		SER.NO		

Parts List

Part number	Description	Quantity
SA405180	SA A44-0000-3931	1.000 ea
RA396580	RA A44-0000-3931	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
NP4566	SS INV IEEE841-2021,CLI DIV2,CURUS-E,CSA	1.000 ea
000613007EX	SS IEEE 841 EMBOSSED AUXILIARY NAMEPLATE	1.000 ea
000692000FF	N/P	1.000 ea
000692000JP	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
000692000VH	N/P (RELEASE 1000 PCS)	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
089490097C	BRKT,DE	1.000 ea
410700004F	WSHR	1.000 ea
415028079E	INPRO SEAL,,625 WIDE,313 BRG	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
423709011C	WASHER	3.000 ea
702675001D	FAN 250-440	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 ea

032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
034001013AB	FLTW BAFFLE	3.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
415915007K	GASK, 26" LAC	1.000 ea
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089490097C	BRKT,DE	1.000 ea
415028079E	INPRO SEAL,,625 WIDE,313 BRG	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
423709011C	WASHER	3.000 ea
702623012A	THERMAL BARRIER, G28	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
067053014A	GASK 440	1.000 ea
076870000BA	CONDUIT BOX - 440 - 1/2-13 GROUND	1.000 ea
076871000A	+CBOX CVR BLKT - 449	1.000 ea
406056007A	GASKET, 440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180024HA	KEY 5/8X5/8X3 L	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.500 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.094 ga
MG1500G03-5	LACQUER PRIMER, GRAY	0.094 ga

421948051	LABEL, MYLAR	1.000 ea
604797056	WOOD BASE 447 60 X 41-1/2 BLT 20 X 18	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
412118006A	DRAIN	2.000 ea

FRAME 447T

RPM 3570

VOLTS 575

NEMA DESIGN B

TEST S.O. CALCULATED DATA

HP 200

AMPS 172

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE FCXE

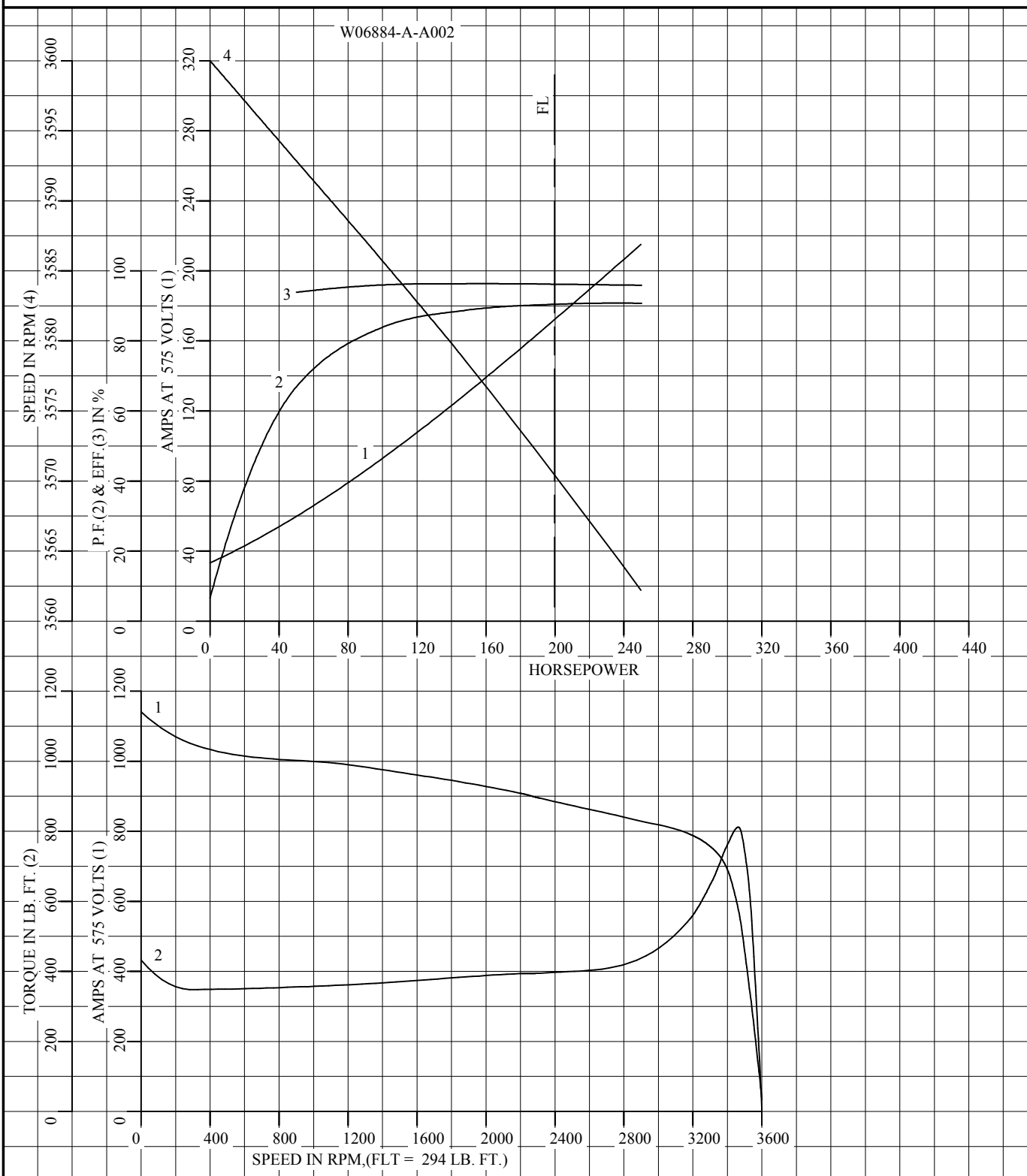
STATOR RES. @ 25 °C .0226

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 833331

OHMS (BETWEEN LINES)



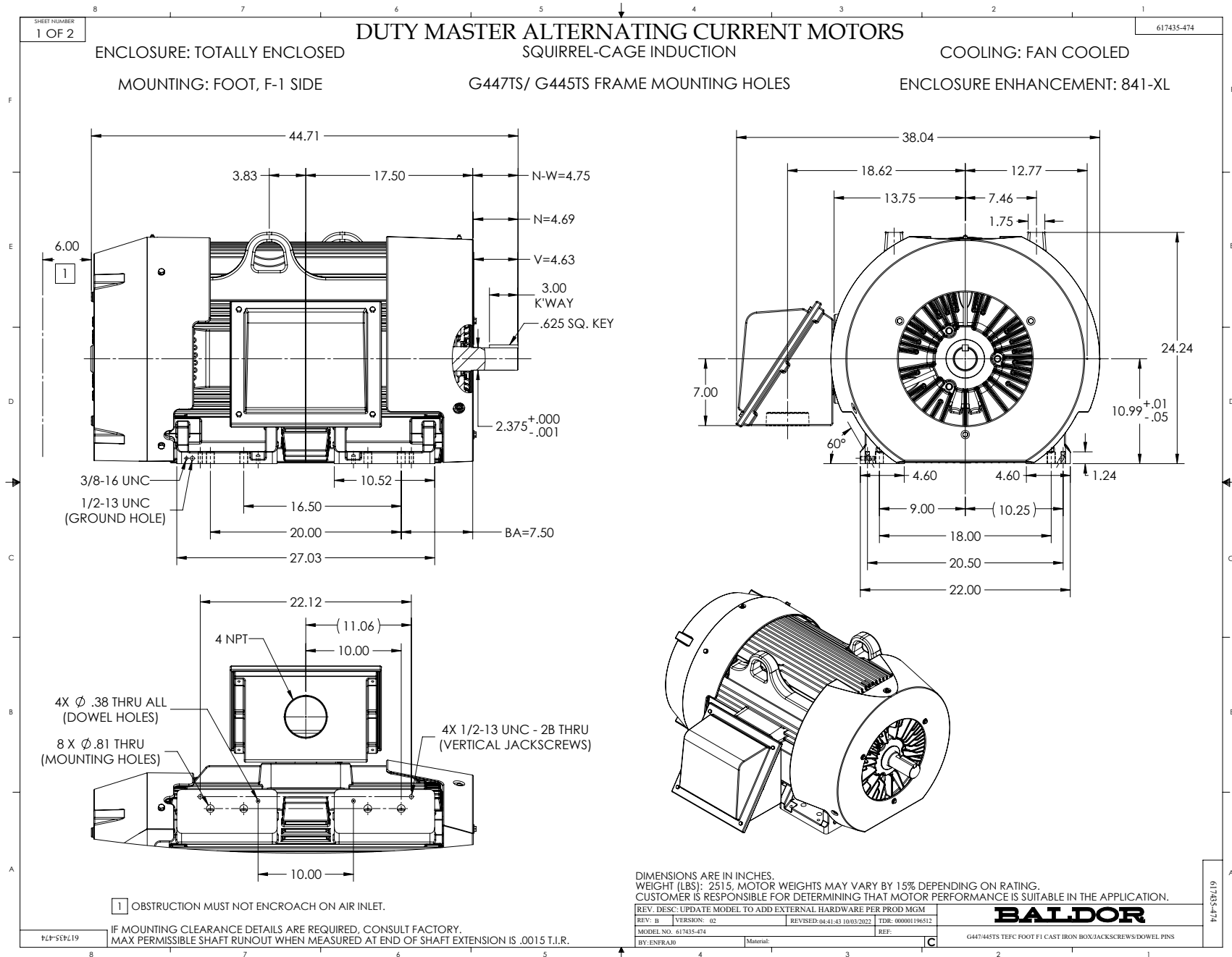
AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

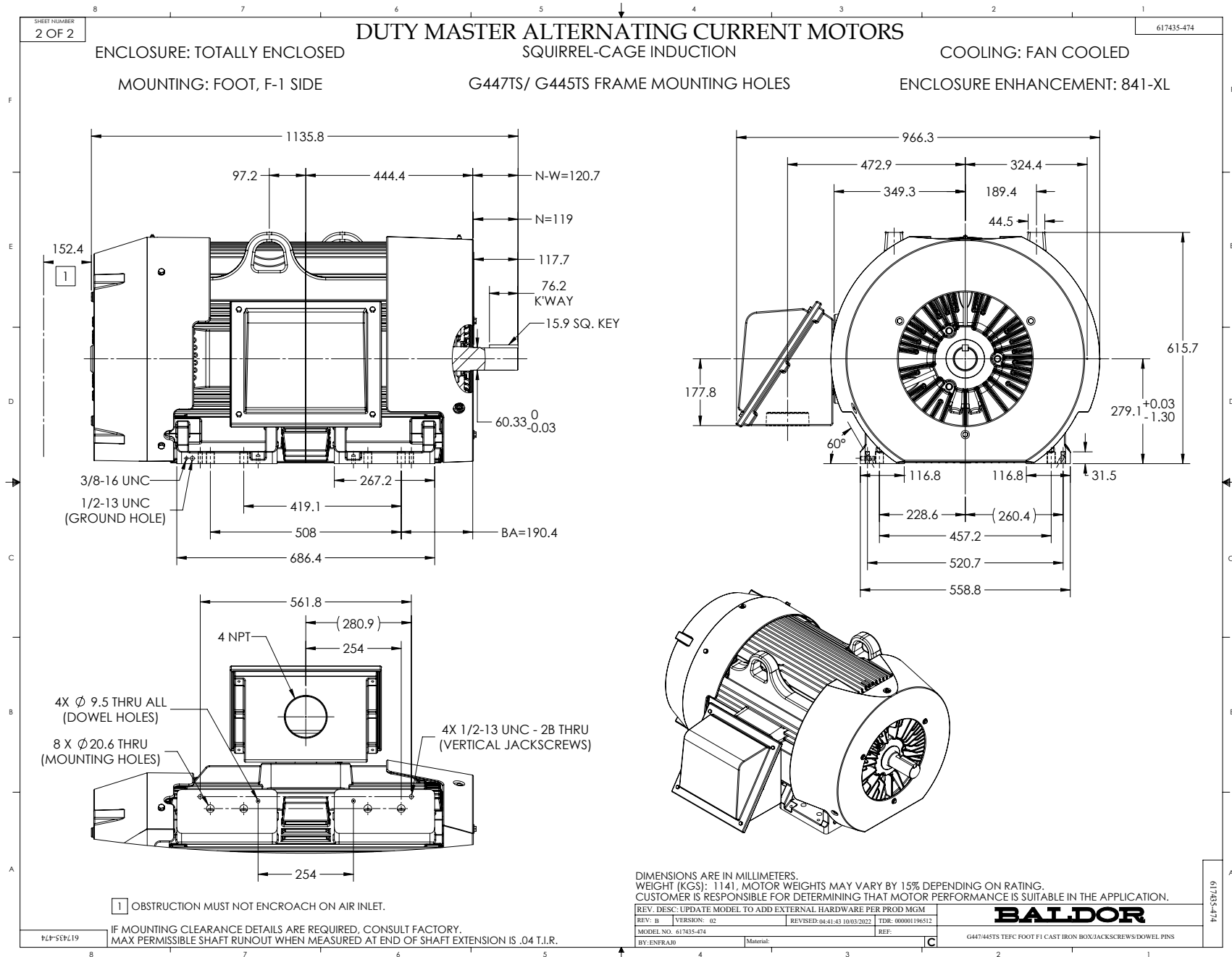
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J.J.HARRISON
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 07/18/11

**A-C MOTOR
PERFORMANCE CURVES** A44WG3931-R001
ISSUE DATE 07/18/11

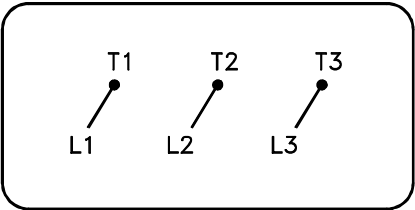
REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
	447T	200	P	3/60	3570	575			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
172	CONT	40/F	1.15	B	G	FCXE			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
833331	418143005AE	---	---	.0226					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	33.3	3600	6.61	0				
1/4	50.0	59.7	3593	66.9	93.9				
2/4	100	93.1	3586	83.9	96.0				
3/4	150	131	3578	88.8	96.3				
4/4	200	172	3571	90.5	96.2				
5/4	250	215	3562	90.8	95.9				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	147	432	1141				
PULL UP		288	119	349	1051				
BREAKDOWN		3464	276	812	573				
FULL LOAD		3571	100	294	172				
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA W06884-A-A002									
		DR. BY J. J. HARRISON		A-C MOTOR PERFORMANCE DATA A44WG3931-R001 ISSUE DATE 07/18/11					
		CK. BY W. L. SMITH							
		APP. BY W. L. SMITH							
		DATE 07/18/11							





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