

ABB BALDOR RELIANCE III

Customer information packet

ECP84411TR-4

125HP, 1188RPM, 3PH, 60HZ, 445T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445T
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	15-60
Current @ Voltage	146.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	146.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3350
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#1
Proprietary	False
Created date	08-06-2019

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	None
Motor Type	A44090M
Mounting Arrangement	F1
No Load Current	50.2 a
Number of Poles	6
Overall Length	44.97 IN
Power Factor	84
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	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1188 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566																
CAT NO	ECP84411TR-4			SPEC NO.		A44-9130-3350										
HP	125	AMPS		146	VOLTS		460		DESIGN		B					
FRAME SIZE	445T	RPM		1188	HZ		60	AMB		40	SF		1.15			
D.E. BRG.DATA	NU222			O.D.E. BRG.DATA		6318			PH		3	DUTY		CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X			TYPE		ENCL		TEFC		CODE		G				
O.D.E. BRG.	90BC03J30X			POWER FACTOR				84		NEMA-NOM-EFFICIENCY				95		
3/4 LOAD EFF.	95.3	IP		56	MAX CORR KVAR				30		GUARANTEED EFFICIENCY				94.1	
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	ECP84411TR-4	SPEC NO.	A44-9130-3350	
NO. ROTOR BARS	71	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		50.2
5 YEAR WARRANTY		WINDING RES @25 C	.0364	OHMS
MFG. DATE		SER.NO		

Parts List

Part number	Description	Quantity
SA373111	SA A44-9130-3350	1.000 ea
RA362894	RA A44-9130-3350	1.000 ea
000692000RT	N/P	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
034530036AB	P/NIP 1/8 X4-1/2 Yellow Zinc46114-BM	1.000 ea
034530036BB	P/NIP 1/4X4-1/2 GALV.	1.000 ea
418151014G	RETAIN RING	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
604799003C	PLASTIC BAG 42X32X46	1.000 ea
000692000JP	N/P	1.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
000692000VD	LABEL WARNING	1.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
000692000VH	N/P (RELEASE 1000 PCS)	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
421948051	LABEL, MYLAR	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
004824015AP	GREASE MOBILITH SHC 220	1.160 lb
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 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
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea

034690005AB	PPLG 3/4 PLATED	2.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
078557001E	FAN 440 078557001F	1.000 ea
083199082A	G28 FAN COVER MACHINING SHORT VERSION	1.000 ea
089490099D	G28 BRKT 089490098WCA	1.000 ea
415028079H	SEAL,.625 WIDE,318 BRG	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
423709011D	WASHER	3.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089490101C	G28 BRKT 089490100WCA	1.000 ea
415028079J	INPRO SEAL,.625 WIDE,222 BRG	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
418151014H	RETAIN RING	1.000 ea
423709011D	WASHER	3.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/OAWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
067053001C	GASK 440	1.000 ea
076863000C	+CBCST BLKT - 440	1.000 ea
076864000A	*MFC MOVE* CBCST BLKT - 440	1.000 ea
406056007A	GASKET, 440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.440 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea

MN416	TAG-INSTAL-MAINT w/wire. (1200/bx) 3/19	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
412118006A	DRAIN	2.000 ea

ECP84411TR-4 - 125HP, 1188RPM, 3PH, 60HZ, 445T, TEFC, F1						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION FRAME	PACKET HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	125	P	3/60	1188	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
146	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
498802	418143098ME	---	---	.0377		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	44.6	1200	4.33	0	
1/4	31.3	64.2	1197	49.1	92.9	
2/4	62.5	86.3	1195	71.2	95.3	
3/4	93.7	114	1192	80.3	95.6	
4/4	125	146	1189	84.1	95.4	
5/4	156	180	1186	85.6	94.9	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	136	751	976	
PULL UP		168	120	665	938	
BREAKDOWN		1148	267	1474	561	
FULL LOAD		1189	100	552	146	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.						
		DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>04/20/10</u>		AC MOTOR PERFORMANCE DATA		A44WG3350-R001
						DATE ISSUED 08/09/19

FRAME 445T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 125

AMPS 146

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

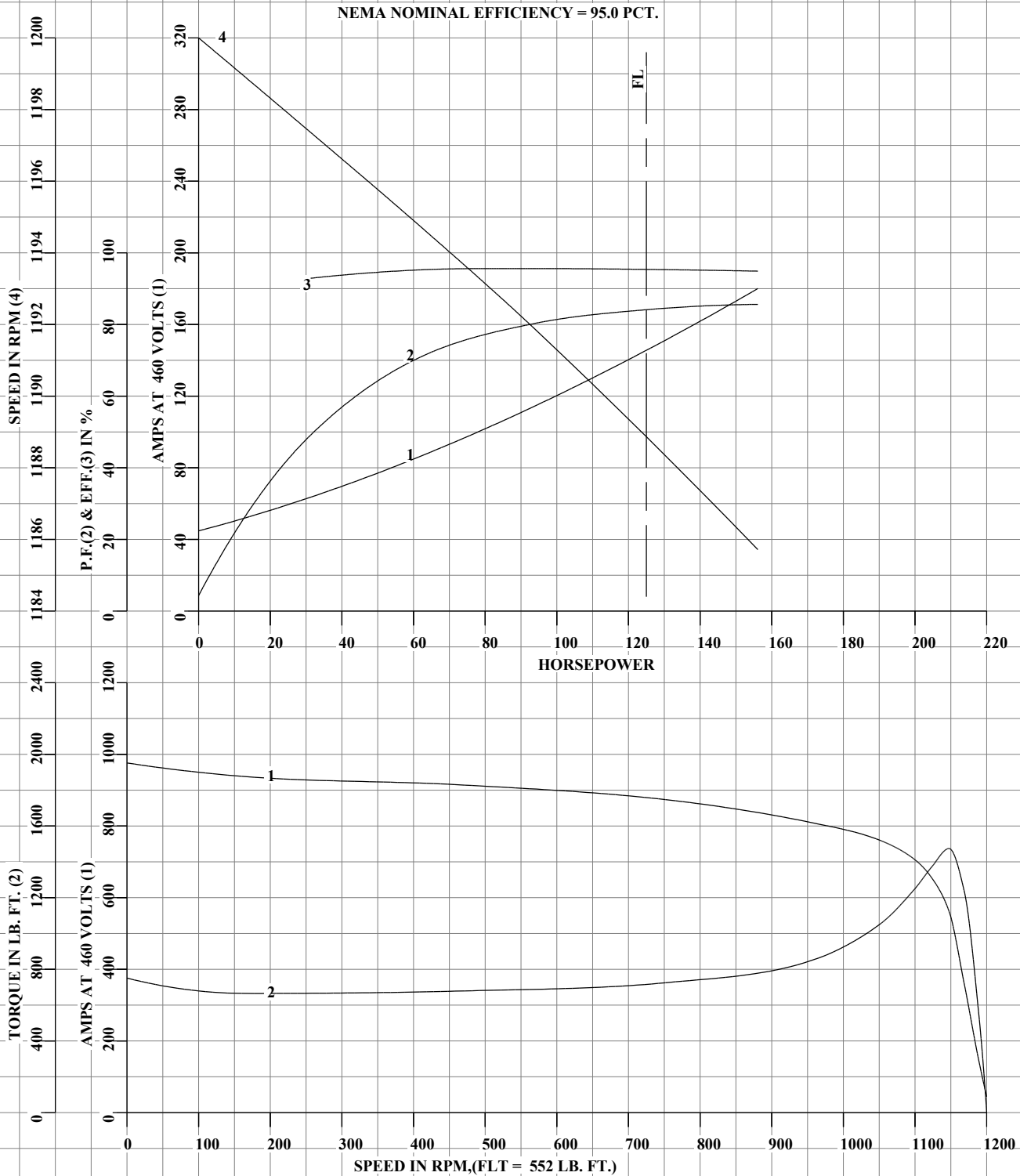
STATOR RES. @ 25°C .0377

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 498802

OHMS (BETWEEN LINES)



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
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AC MOTOR
PERFORMANCE
DATA

A44WG3350-R001

ISSUE DATE 08/09/19

FRAME 445T

RPM 1188

S.F. 1.15

ROTOR 418143098ME

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 146

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

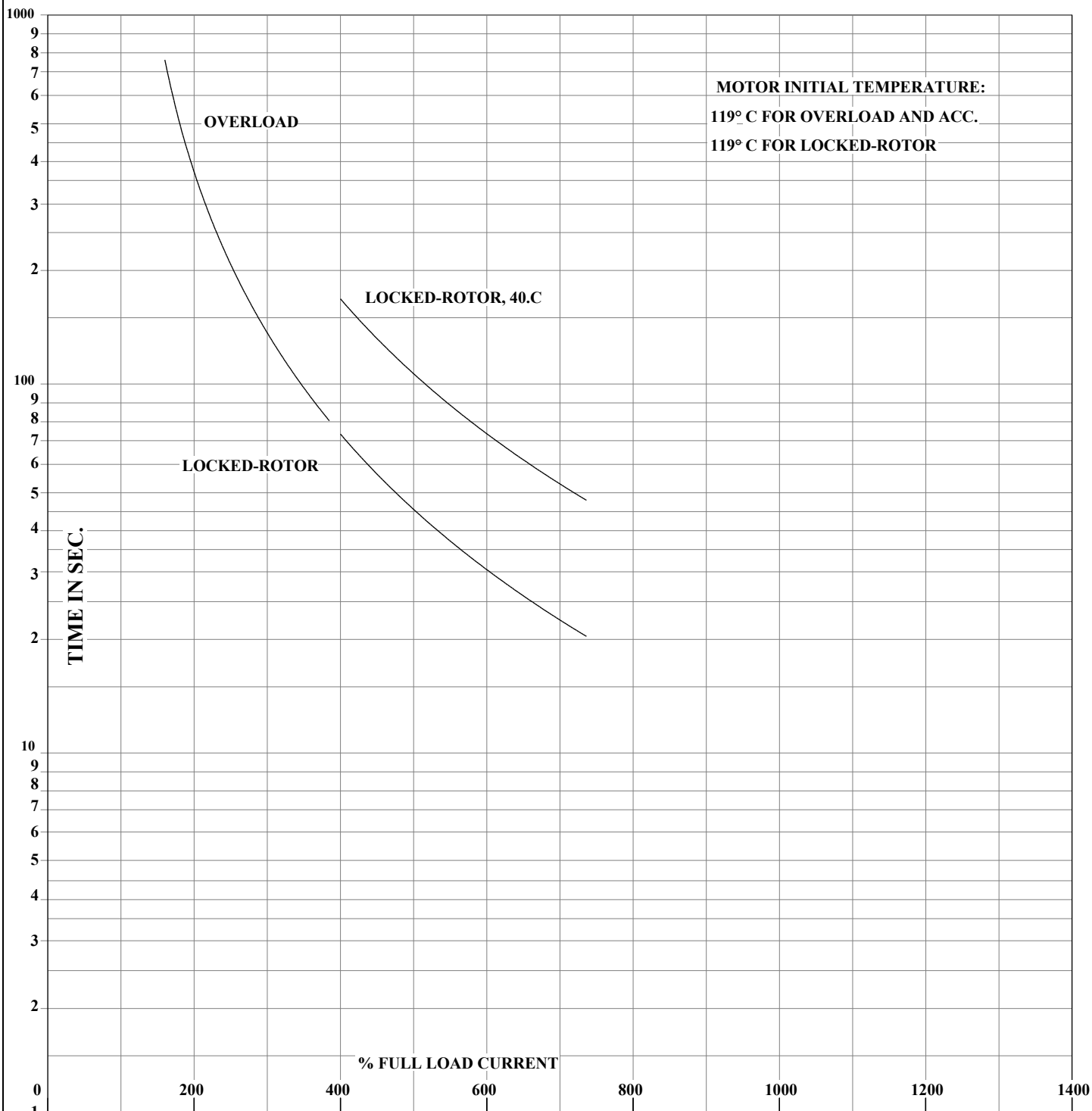
ENCLOSURE TEFC

STATOR RES. @ 25°C .0377

AMB °C / INSUL 40/F

E/S 498802

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

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

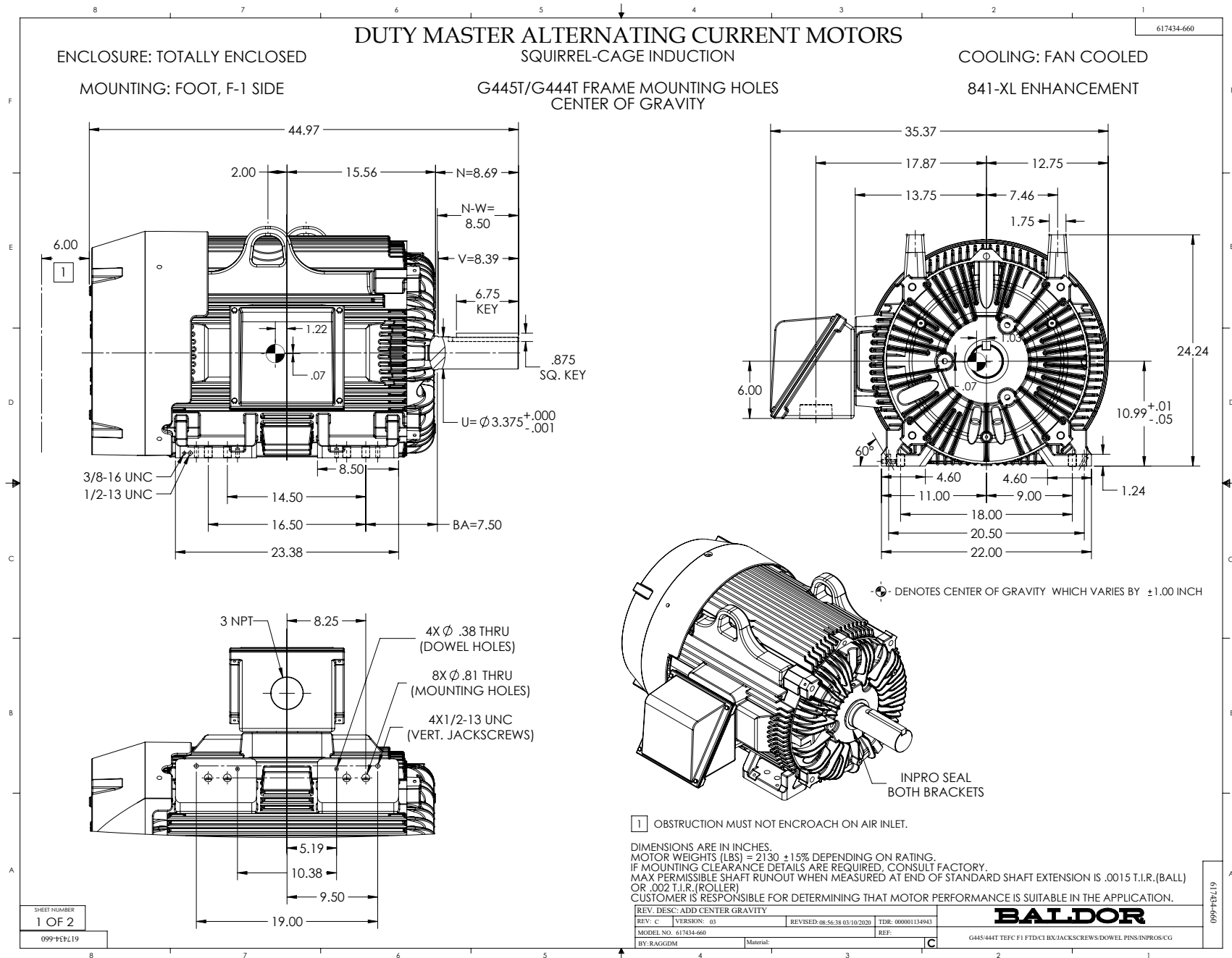


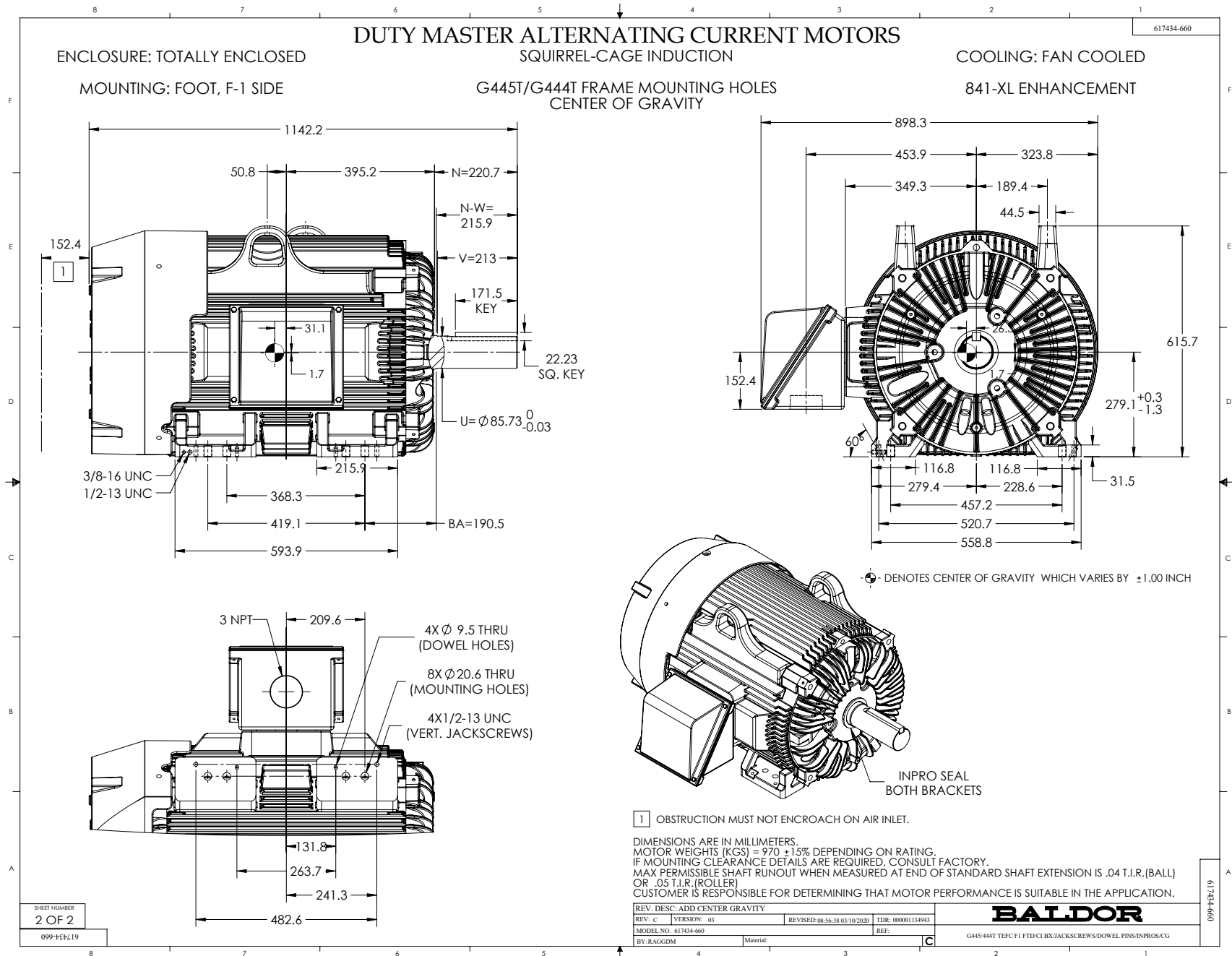
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AC MOTOR
PERFORMANCE
DATA

A44WG3350-R001

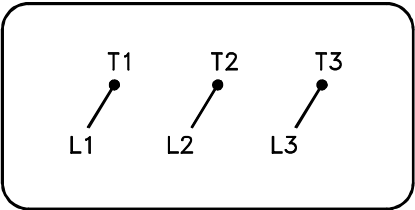
ISSUE DATE 08/09/19





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