

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	CL I 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		
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		

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					ECP84411TR-4 - 125HP, 1188RPM, 3PH, 60HZ, 445T, TEFC, F1				
		FRAME	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

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

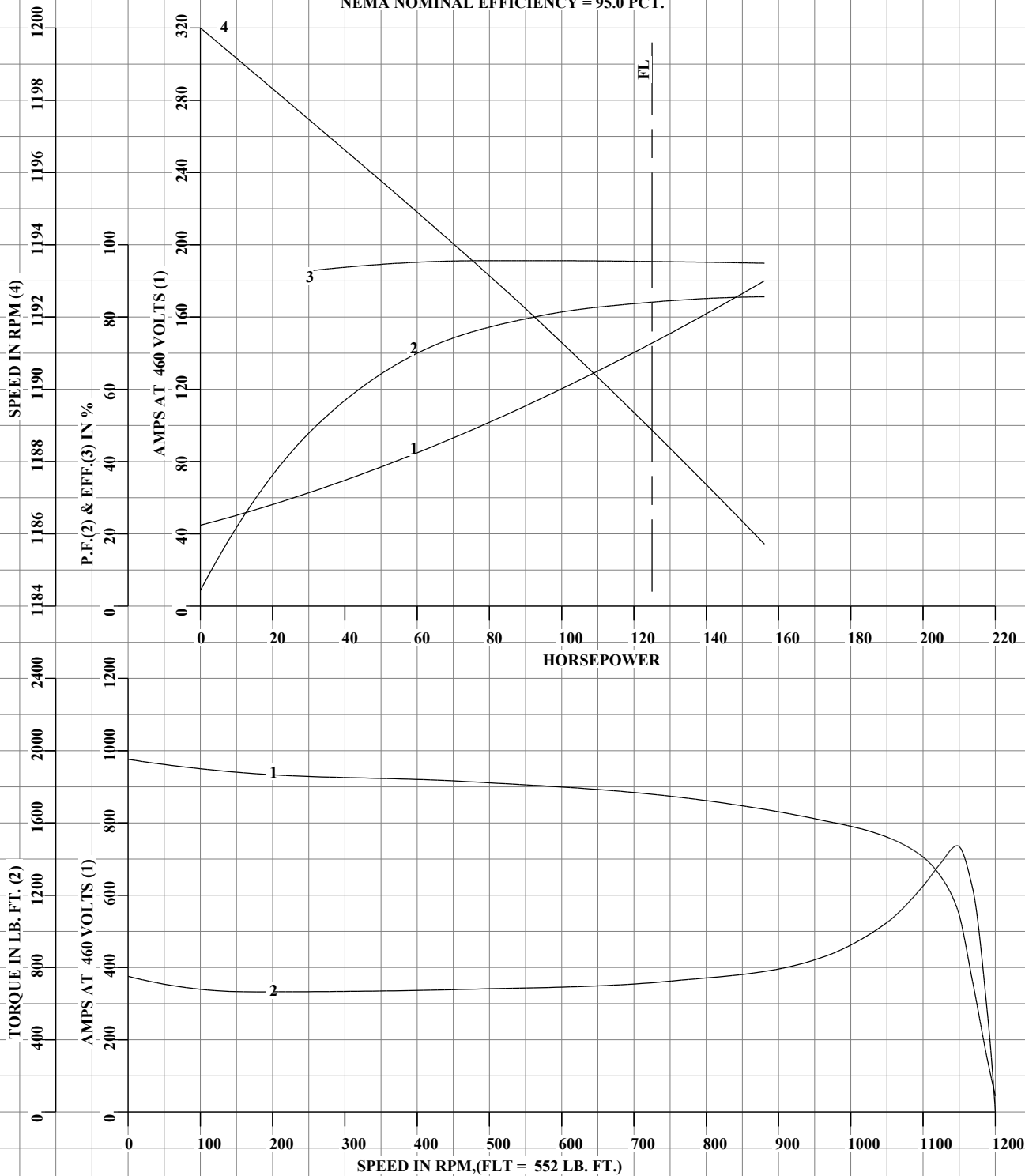
STATOR RES. @ 25°C .0377

AMB °C / INSUL 40/F

E/S 498802

OHMS (BETWEEN LINES)

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
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A44WG3350-R001

ISSUE DATE 08/09/19

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RPM 1188

S.F. 1.15

ROTOR 418143098ME

HP 125

VOLTS 460

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DUTY CONT

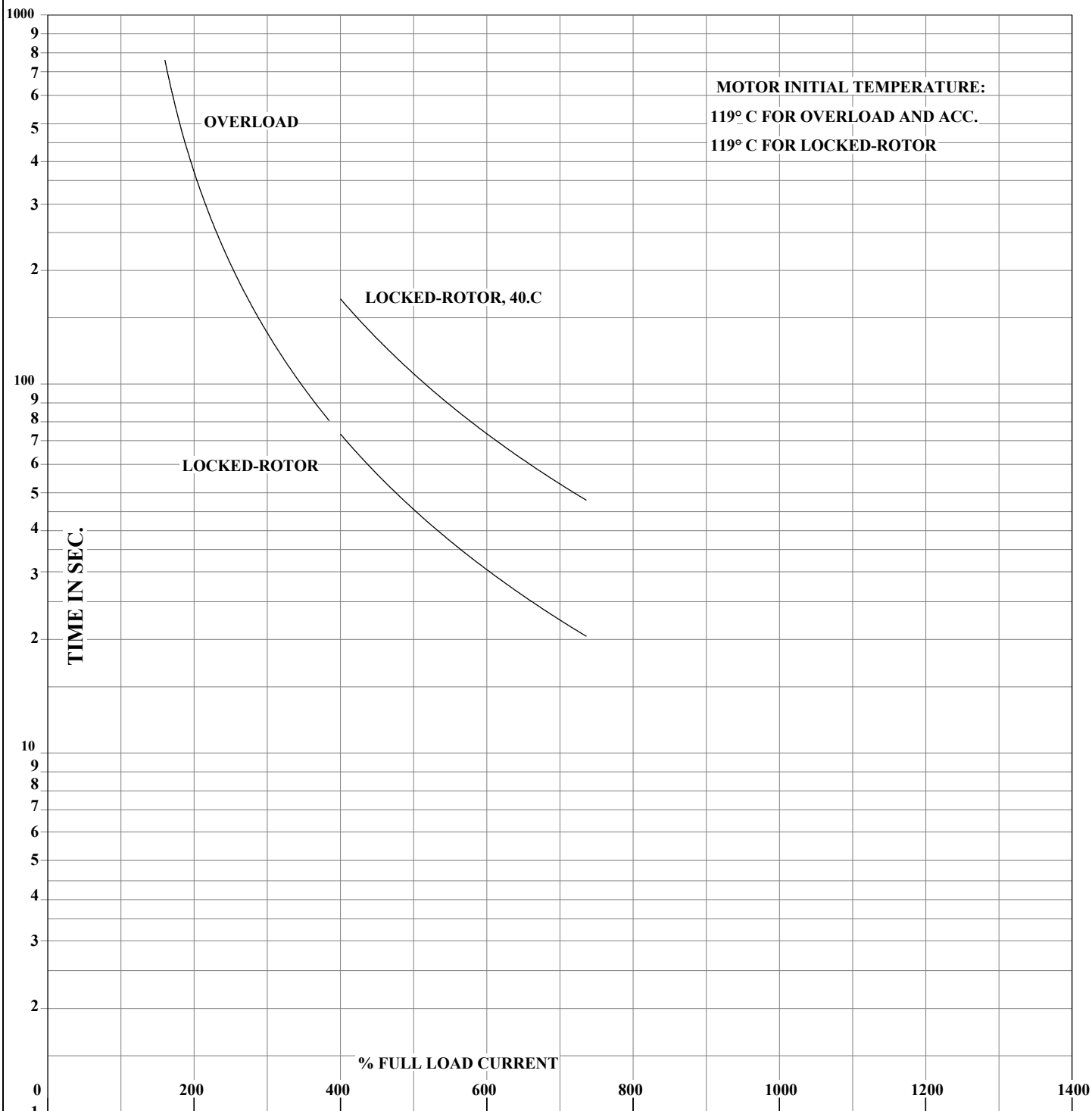
ENCLOSURE TEFC

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.

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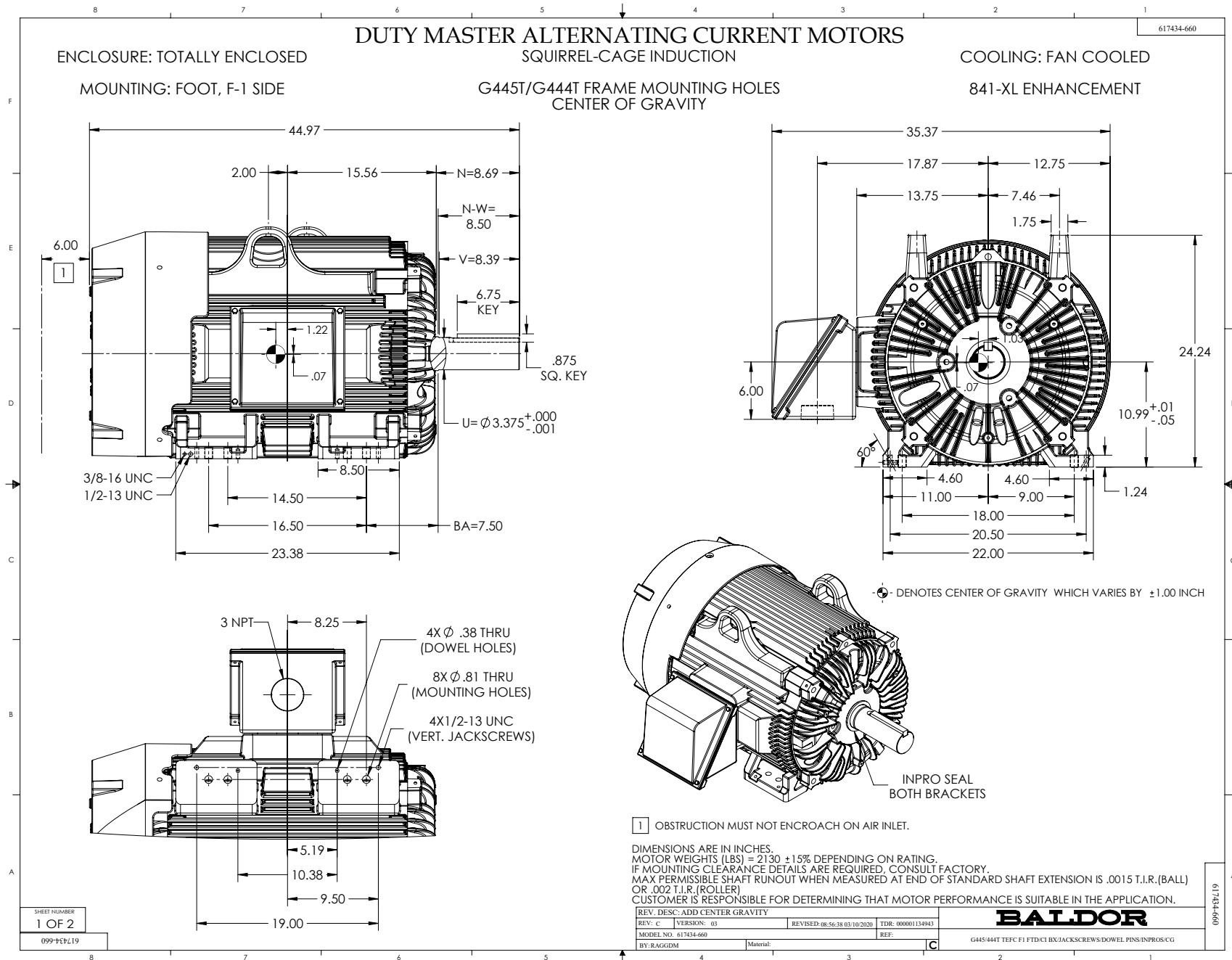


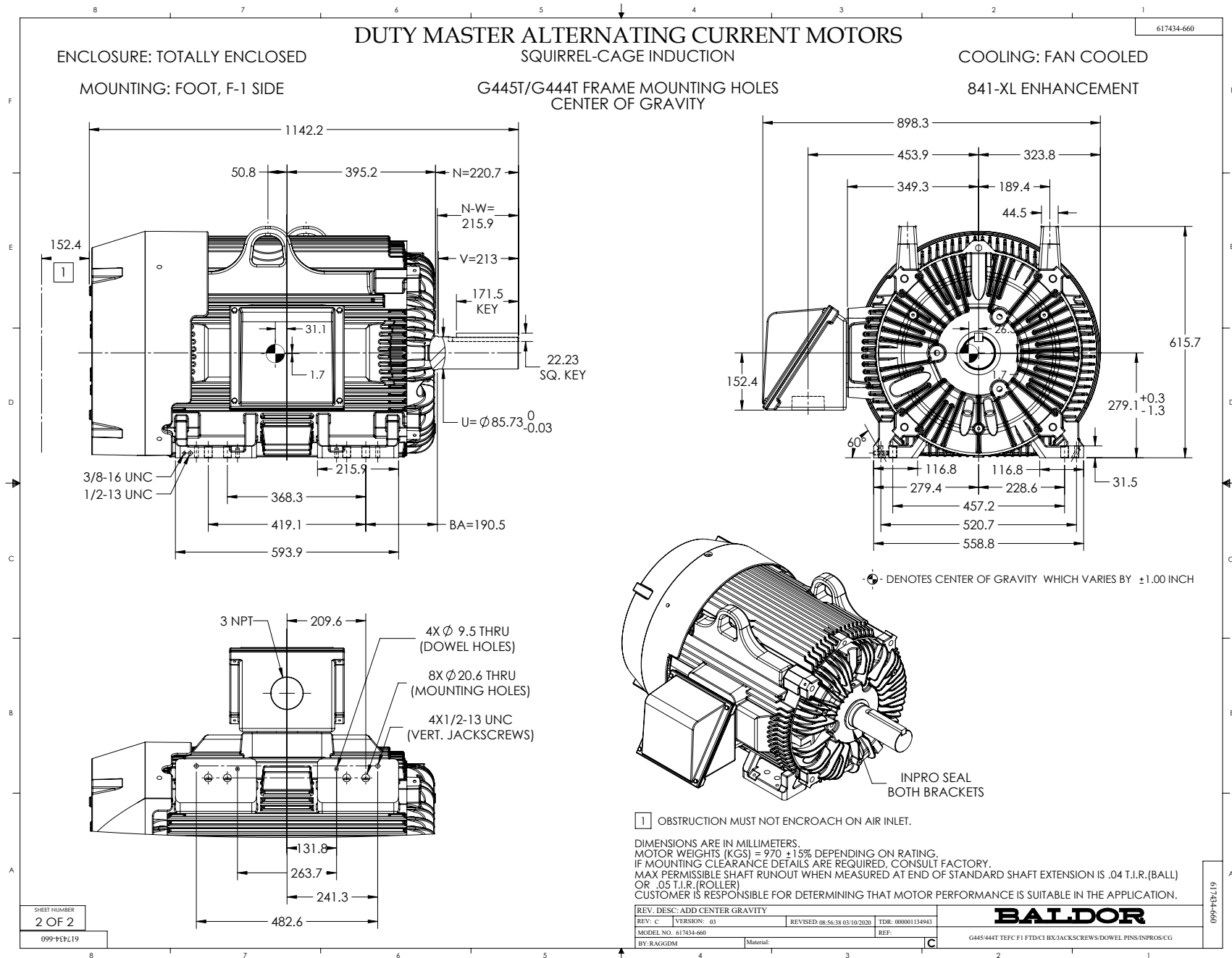
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AC MOTOR
PERFORMANCE
DATA

A44WG3350-R001

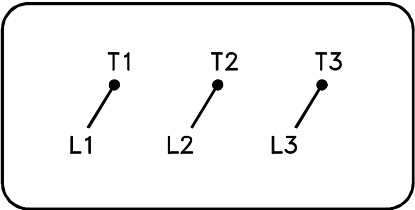
ISSUE DATE 08/09/19





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