



Customer information packet

ECP4413T-4

150HP, 3570RPM, 3PH, 60HZ, 445TS, A4478M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445TS
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
Current @ Voltage	164.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	164.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA

Part detail

Revision	Z
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3535
Layout	617427-493
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	02
Leads	3#2 (02 per group)
Proprietary	False
Created date	08-16-2012

Motor Type	A4478M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	40.83 IN
Power Factor	90
Product Family	Other
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	Reversible
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

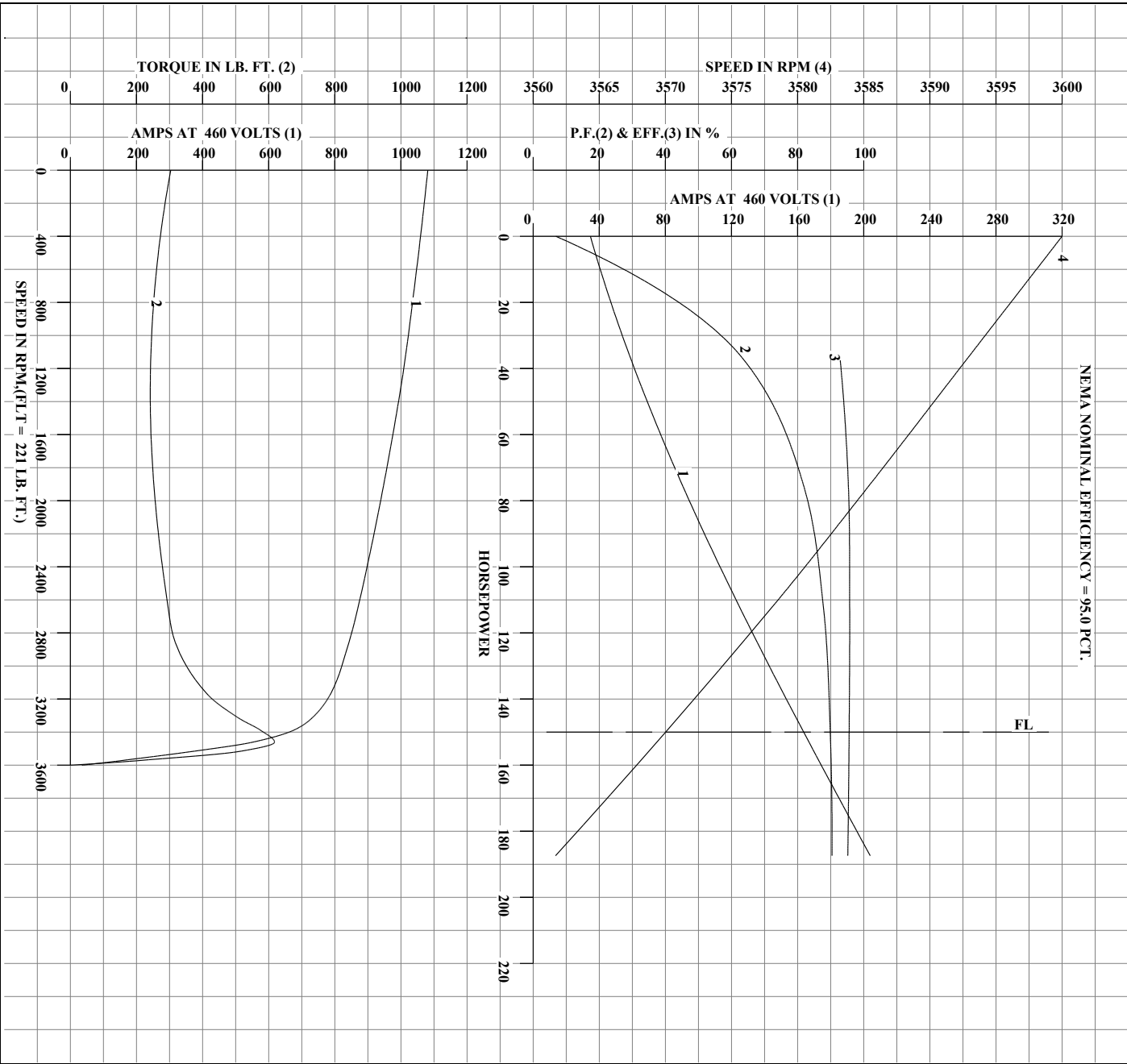
NP3238														
CAT NO	ECP4413T-4			SPEC NO.		P44G3944								
HP	150	AMPS	164		VOLTS		460		DESIGN	B				
FRAME	445TS	RPM	3570	HZ	60	AMB	40	SF	1.15					
D.E. BRG.DATA	6313		O.D.E. BRG.DATA			6313		PH	3	DUTY	CONT	INSUL.CLASS	F	
D.E. BRG.	65BC03J30X			TYPE	P	ENCL	TEFC	CODE	G					
O.D.E. BRG.	65BC03J30X			POWER FACTOR			90	NEMA NOM EFFICIENCY			95			
3/4 LOAD EFF.	95.7	MAX CORR KVAR			20.0		GUARANTEED EFFICIENCY			94.1				
TEMP CODE	T3	TEMP =		200										
CHP HZ	60-75	CT HZ	10-60		VT HZ	0-60								
INVERTER-TEMP-CODE	T3													
SER.NO.				MOTOR WEIGHT										

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445	150	P	3/60	3570	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
164	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
0	0	---	---	.0292		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	34.7	3600	6.89	0	
1/4	37.5	59.2	3593	63.9	92.9	
2/4	75.1	90.3	3585	81.7	95.3	
3/4	113	125	3578	87.8	95.7	
4/4	150	164	3570	89.9	95.6	
5/4	187	204	3562	90.4	95.2	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	138	304	1081	
PULL UP		1350	110	242	997	
BREAKDOWN		3461	280	618	552	
FULL LOAD		3570	100	221	164	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
CALCULATED DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.						
		DRAWN BY: <u>CD</u> CHECKED BY: <u>CD</u> APPROVED BY: <u>R. MCELVEEN</u> DATE: <u>1/18/11</u>		AC MOTOR PERFORMANCE DATA		A44W/G3535-R001 DATE ISSUED 03/04/20

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REL.S.O.	FRAME 445	RPM 3570	S.F. 1.15	ROTOR 0
HP 150	VOLTS 460	AMPS 164	NEMA DESIGN B	TEST S.O. CALCULATED DATA
TYPE P	DUTY CONT	ENCLOSURE TEFC	CODE LETTER G	TEST DATE --
PHASE / HERTZ 3/60	AMB °C / INSUL. 40/F	E/S 0	STATOR RES. @ 25°C .0292	OHMS (BETWEEN LINES)



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



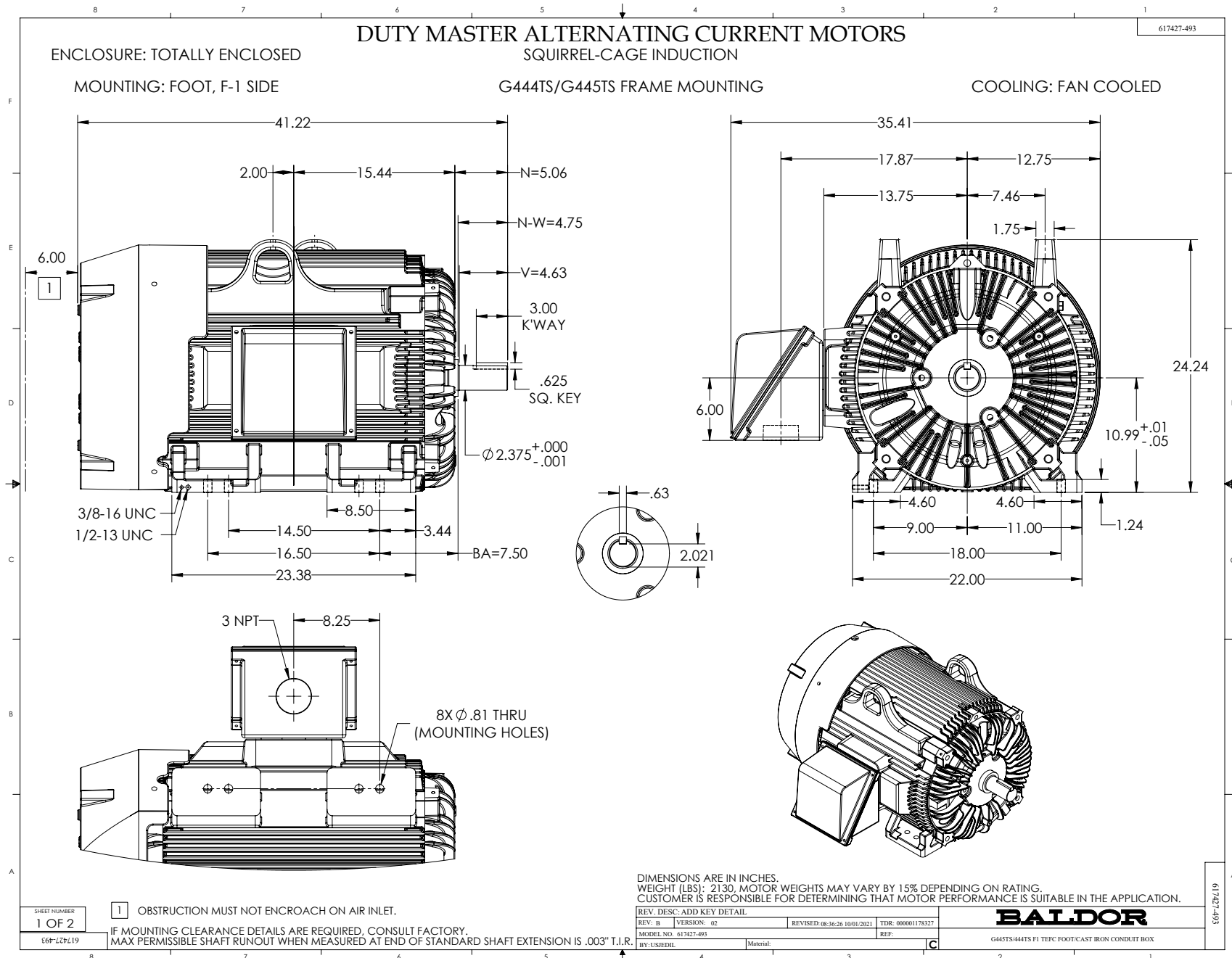
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APPROVED BY: R. MCELVEEN
DATE: 1/18/11

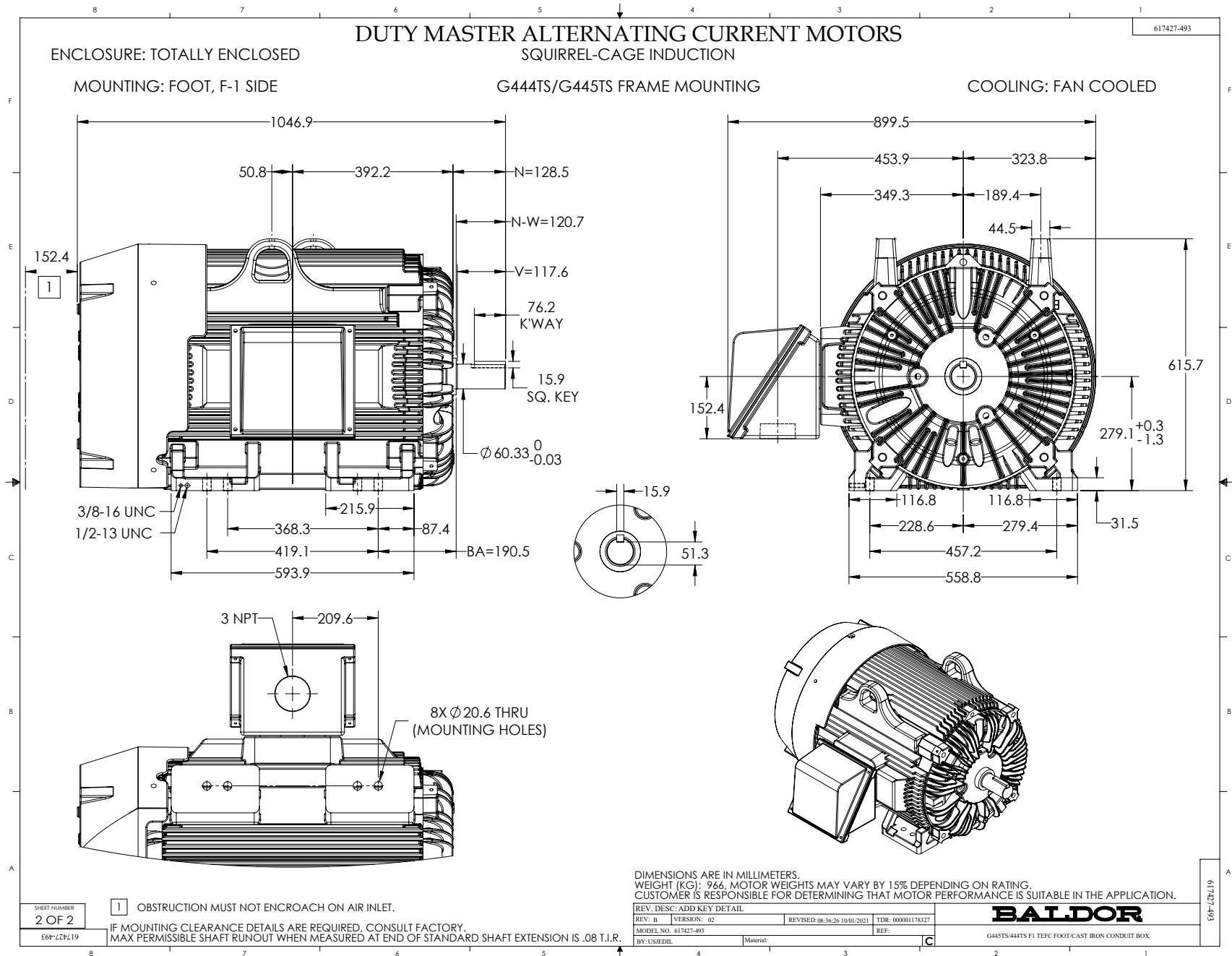
AC MOTOR
PERFORMANCE
DATA

A44W/G3535-R001
ISSUE DATE 03/04/2014

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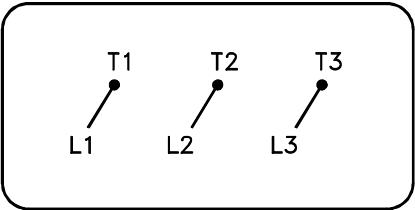
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416820-036

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