

ABB BALDOR RELIANCE III

Customer information packet

EM4410TR-4

125HP, 1785RPM, 3PH, 60HZ, 444T, A44076M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Current @ Voltage	144.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	144.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44076M

Part Detail

Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3870
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	02-19-2013

Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	85
Product Family	Other
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L																
SPEC NO.	P44G4027			CAT.NO.		EM4410TR-4				FRAME	444T					
HP	125	VOLTS		460		PHASE	3	DESIGN	B	TYPE	P					
RPM	1785	AMPS	144		HZ	60	AMB	40	SF	1.15						
DRIVE END BEARING	110RU02M30X			DUTY	CONT	INSUL.CLASS		F								
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC	CODE	G									
SER.NO.				POWER FACTOR		85		NEMA-NOM-EFFICIENCY				95.4				
						MAX CORR KVAR		27		GUARANTEED EFFICIENCY		94.5				
						NEMA NOM/CSA QUOTED EFF										
						MOTOR WEIGHT										

NP2496L	
MOBIL SHC 220 GREASE	

ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET						EM4410TR-4 - 125HP, 1785RPM, 3PH, 60HZ, 444T, A44076M, TEFC					
	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS						
	444	125	P	3/60	1785	460						
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE						
144	CONT	40/F	1.15	B	G	TEFC						
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)								
498834	418143052KE	---	---	.0383								
PERFORMANCE												
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY							
NO LOAD	0	44.8	1800	4.44	0							
1/4	31.3	61.7	1796	51.1	92.8							
2/4	62.5	84.1	1792	73.0	95.3							
3/4	93.7	112	1788	81.7	95.7							
4/4	125	144	1784	85.3	95.5							
5/4	156	178	1780	86.6	95.1							
SPEED TORQUE												
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES								
LOCKED ROTOR	0	133	489	892								
PULL UP	270	114	420	875								
BREAKDOWN	1729	290	1067	500								
FULL LOAD	1784	100	368	144								
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 = 95.4PCT.												
ABB		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		A44WG3870-R001 DATE ISSUED 05/04/21						

FRAME 444

RPM 1785

S.F. 1.15

ROTOR 418143052KE

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 144

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

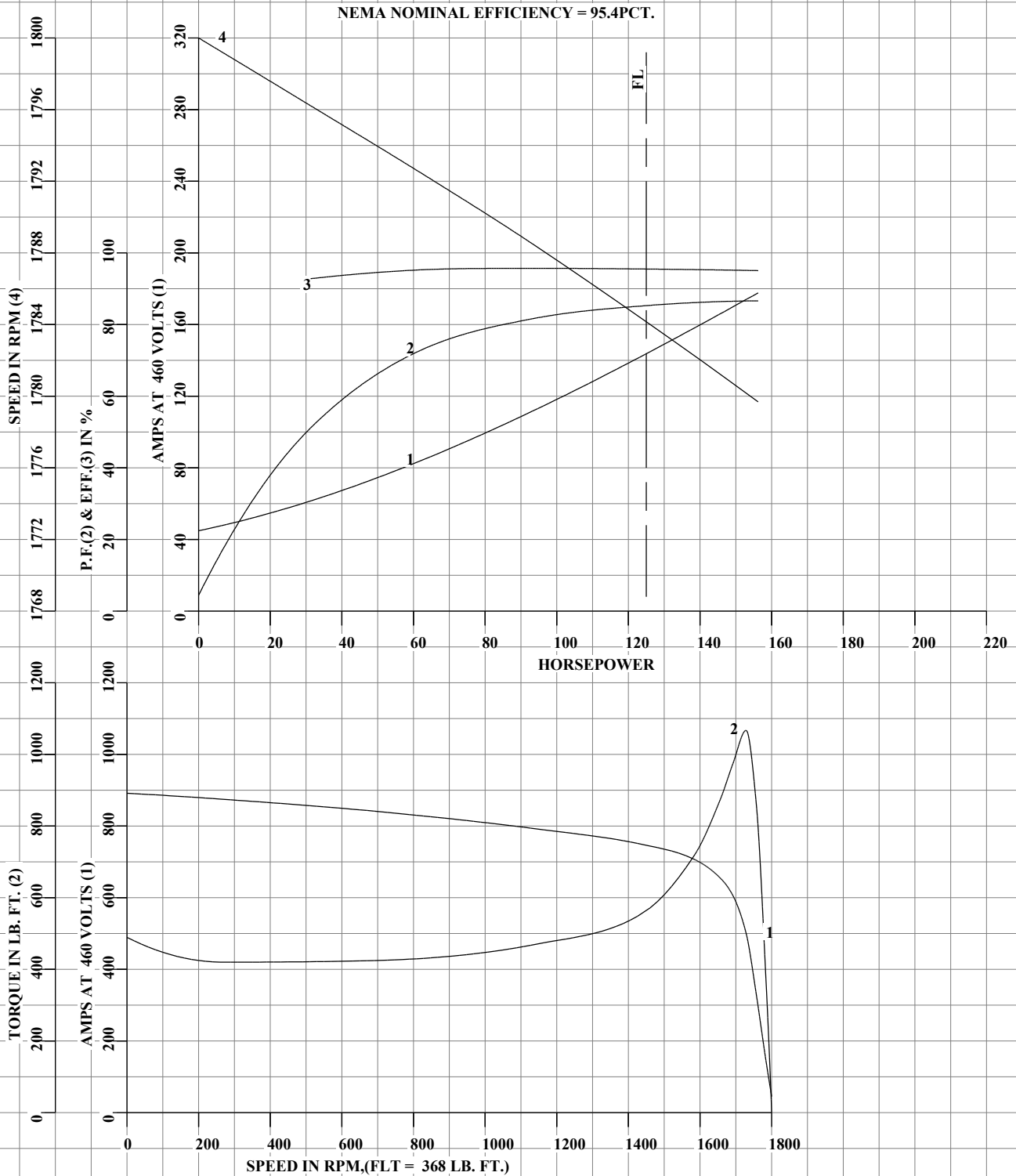
ENCLOSURE TEFC

STATOR RES. @ 25°C .0383

AMB °C / INSUL 40/F

E/S 498834

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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 DATE: 1/18/11

AC MOTOR
 PERFORMANCE
 DATA

A44WG3870-R001

ISSUE DATE 05/04/21

FRAME 444

RPM 1785

S.F. 1.15

ROTOR 418143052KE

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 144

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

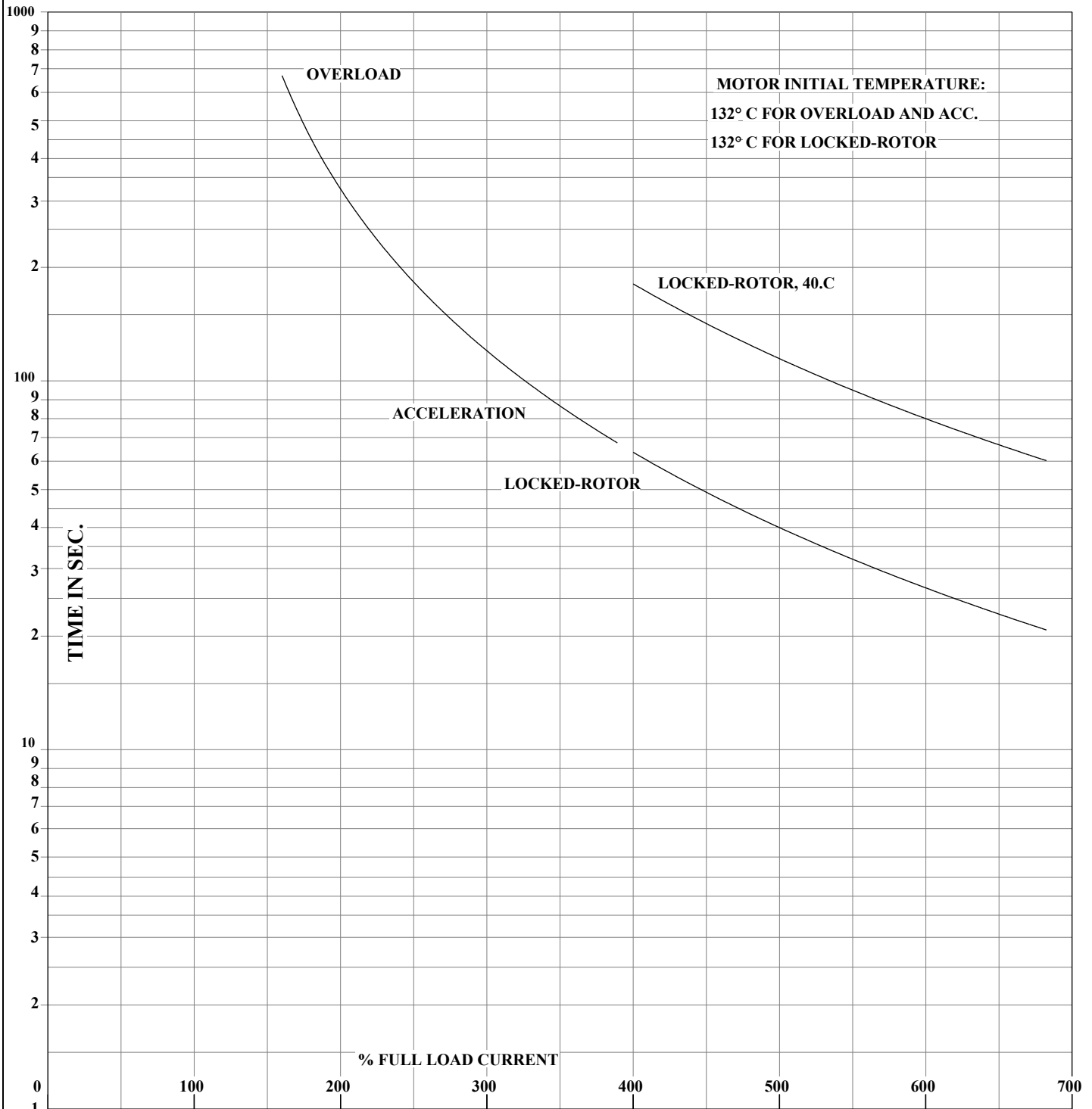
DUTY CONT

ENCLOSURE TEFC

STATOR RES. @ 25°C .0383

AMB °C / INSUL 40/F

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.4PCT.

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

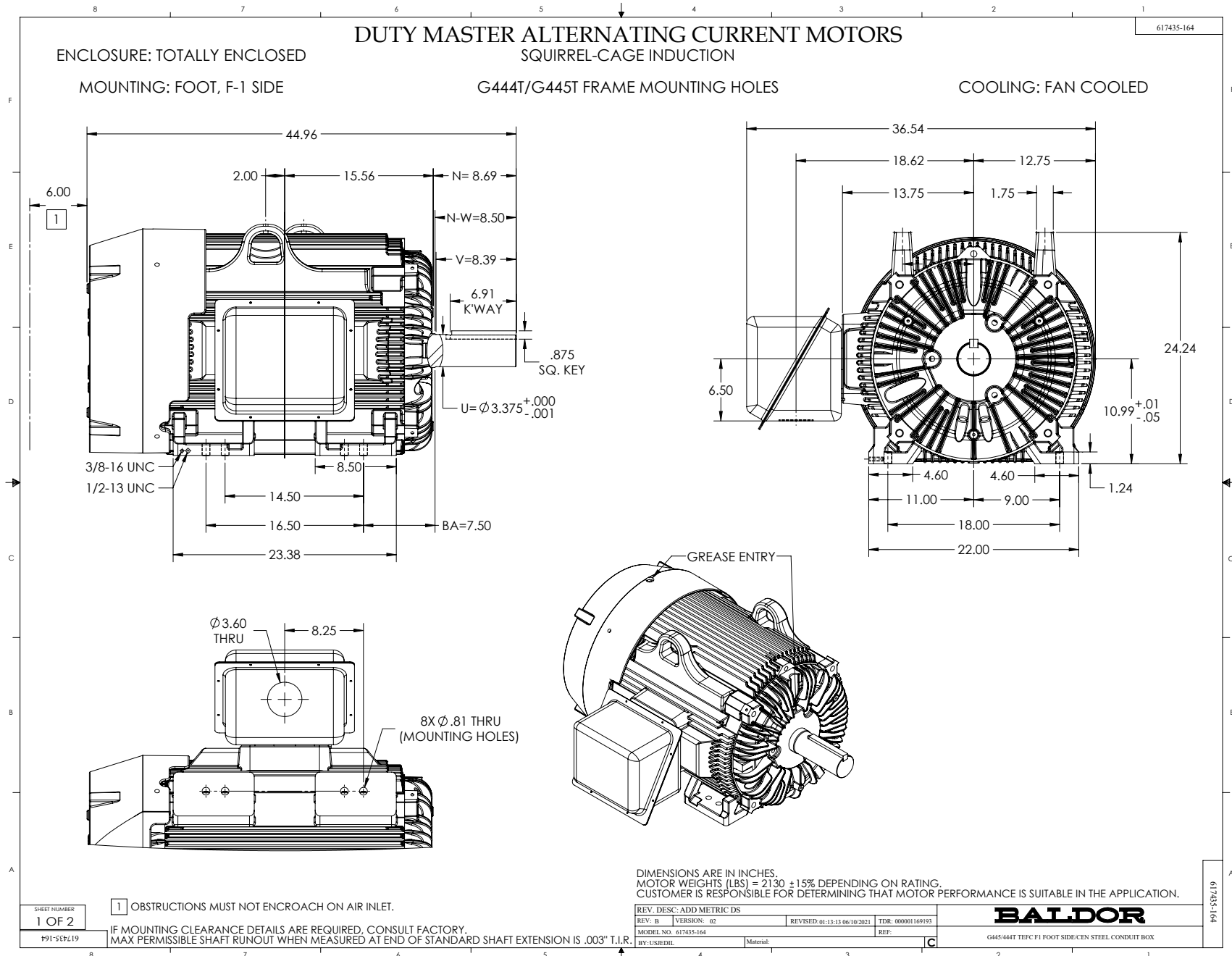


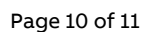
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AC MOTOR
PERFORMANCE
DATA

A44WG3870-R001

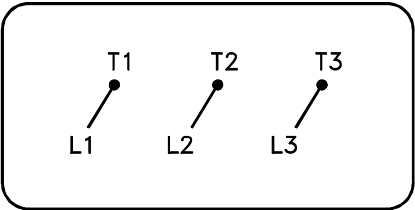
ISSUE DATE 05/04/21





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