

ABB BALDOR RELIANCE III

Customer information packet

ECP84412T-5

125HP, 3570RPM, 3PH, 60HZ, 444TS, A4468M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	444TS
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	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	110.000 A @ 575.0 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	110.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5720
Layout	617434-659
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	02
Leads	3#1
Proprietary	False
Created date	03-10-2022

Motor Standards	None
Motor Type	A4468M
Mounting Arrangement	F1
No Load Current	25.0 a
Number of Poles	2
Overall Length	41.22 IN
Power Factor	89
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	Shaft Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566													
CAT NO	ECP84412T-5			SPEC NO.		A44-0000-5720							
HP	125	AMPS		110		VOLTS		575		DESIGN		B	
FRAME SIZE	444TS	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	
D.E. BRG.	65BC03J30X			TYPE ENCL		TEFC		CODE G					
O.D.E. BRG.	65BC03J30X			POWER FACTOR				89		NEMA-NOM-EFFICIENCY 95			
3/4 LOAD EFF.	95.4	IP 56		MAX CORR KVAR				18		GUARANTEED EFFICIENCY 94.1			
TEMP CODE	T3	TEMP =		200									
CHP HZ	60-75	CT HZ		30-60		VT HZ		0-60					
INVERTER-TEMP-CODE	T3												
SER.NO.				MOTOR WEIGHT									

000613007EX				
CAT NO	ECP84412T-5	SPEC NO.	A44-0000-5720	
NO. ROTOR BARS	40	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE		25
5 YEAR WARRANTY		WINDING RES @25 C	.0532	OHMS
MFG. DATE		SER.NO		

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECP84412T-5 - 125HP, 3570RPM, 3PH, 60HZ, 444TS, A4468M, TEFC																																		
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS																														
			444TS			125			P			3/60			3570			575																														
AMPS							DUTY							AMB °C/ INSUL							S.F.							NEMA DESIGN							CODE LETTER							ENCLOSURE						
110							CONT							40/F							1.15							B							G							TEFC						
E/S							ROTOR							TEST S.O.							TEST DATE							STATOR RES. @25 °C OHMS (BETWEEN LINES)																				
-							418143-8-RE							---							---							.0532																				
PERFORMANCE																																																
LOAD							HP							AMPERES							RPM							% POWER FACTOR							% EFFICIENCY													
NO LOAD							0							25.0							3600							7.72							0													
1/4							31.3							41.5							3593							61.6							91.7													
2/4							62.5							61.6							3586							80.2							94.7													
3/4							93.8							84.9							3579							86.8							95.4													
4/4							125							110							3572							89.2							95.3													
5/4							156							137							3564							89.9							95.0													
SPEED TORQUE																																																
														RPM							TORQUE % FULL LOAD							TORQUE LB.-FT.							AMPERES													
LOCKED ROTOR														0							130							238							720													
PULL UP														288							104							192							663													
BREAKDOWN														3461							283							519							373													
FULL LOAD														3572							100							184							110													
AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																																																
TYPICAL DATA NEMA NOM EFF 95.0%																																																
														DRAWN BY: <u>J. P. TSAO</u> CHECKED BY: <u>W. L. SMITH</u> APPROVED BY: <u>E. J. CHRISTIAN</u> DATE: <u>02/05/20</u>														AC MOTOR PERFORMANCE DATA							A44WG5720-R001 DATE ISSUED 02/05/20													

FRAME 444TS

RPM 3570

S.F. 1.15

ROTOR 418143-8-RE

HP 125

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 110

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

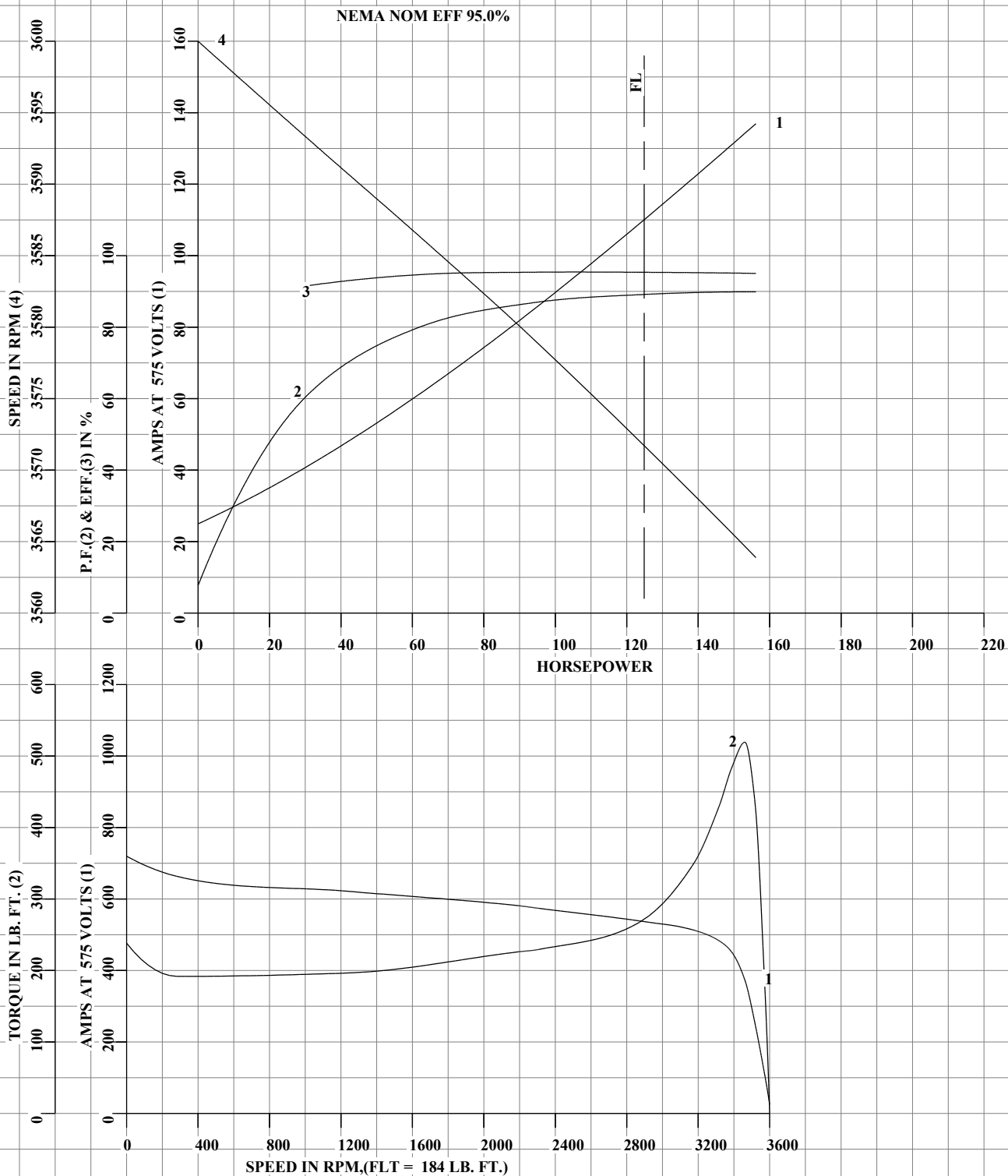
ENCLOSURE TEFC

STATOR RES. @ 25°C .0532

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 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

A44WG5720-R001

ISSUE DATE 02/05/20

FRAME 444TS

RPM 3570

S.F. 1.15

ROTOR 418143-8-RE

HP 125

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 110

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

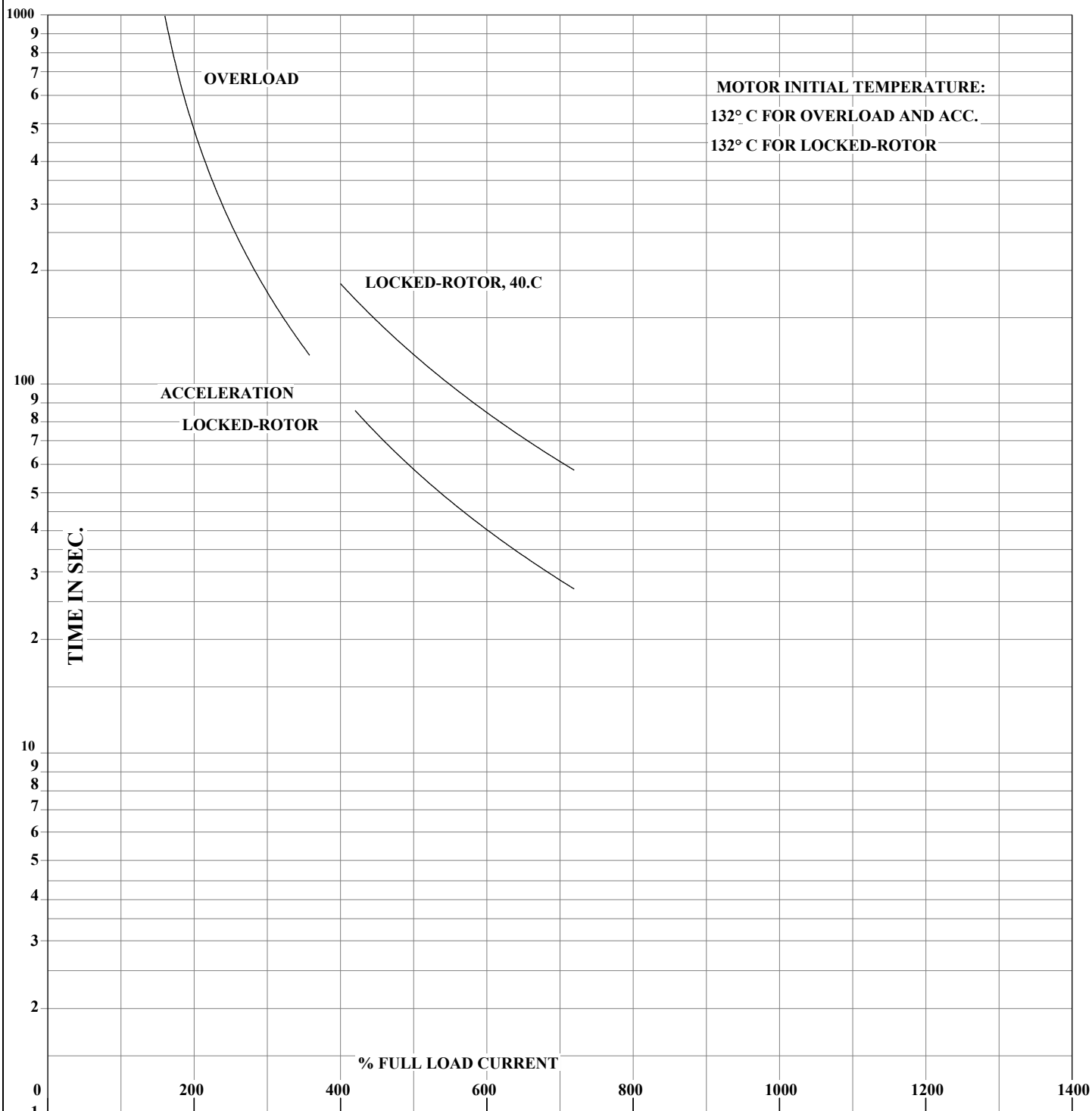
ENCLOSURE TEFC

STATOR RES. @ 25°C .0532

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOM EFF 95.0%

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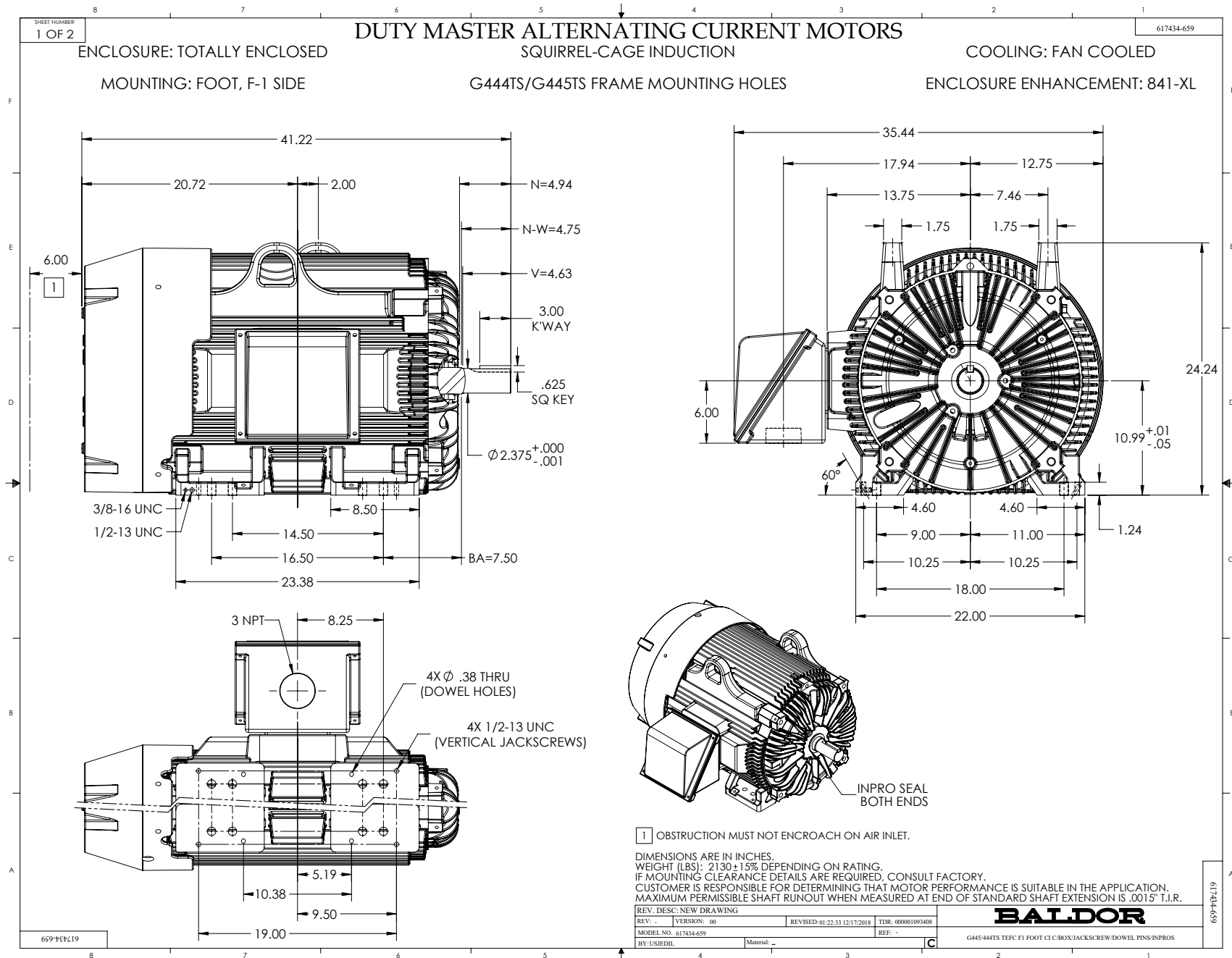


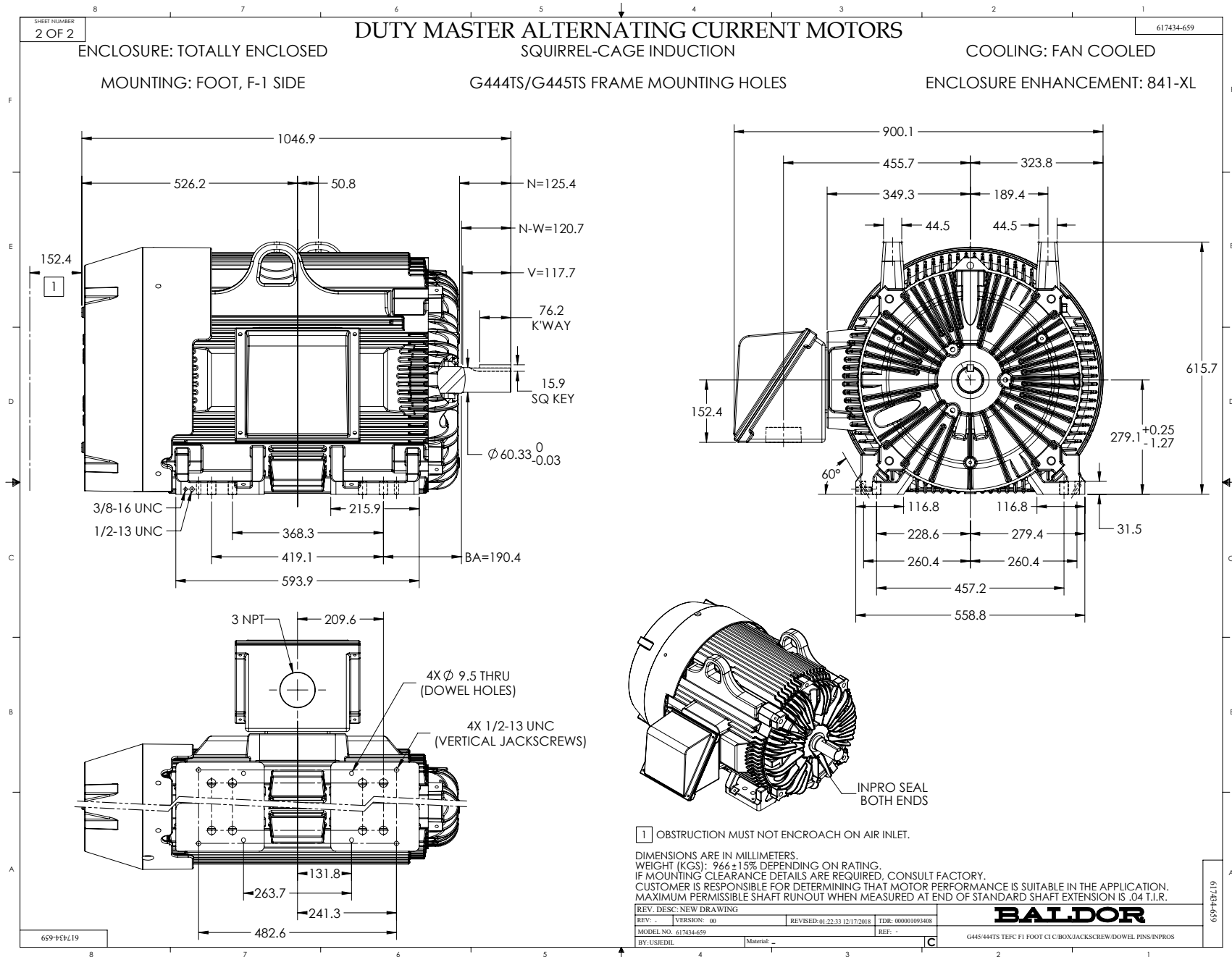
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AC MOTOR
PERFORMANCE
DATA

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ISSUE DATE 02/05/20





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