

ABB BALDOR RELIANCE III

Customer information packet

EM4412T-4

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444TS
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	3600 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	Polyrex EM (-20F +300F)
Current @ Voltage	137.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	137.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA
Motor Type	A4468M

Part Detail

Revision	U
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3534
Layout	617435-049
Eff. date	03-17-2026
CD Diagram	416820-036
Poles	02
Leads	3#2 (02 per group)
Proprietary	False
Created date	08-09-2012

Mounting Arrangement	F1
Number of Poles	2
Overall Length	40.83 IN
Power Factor	89
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
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

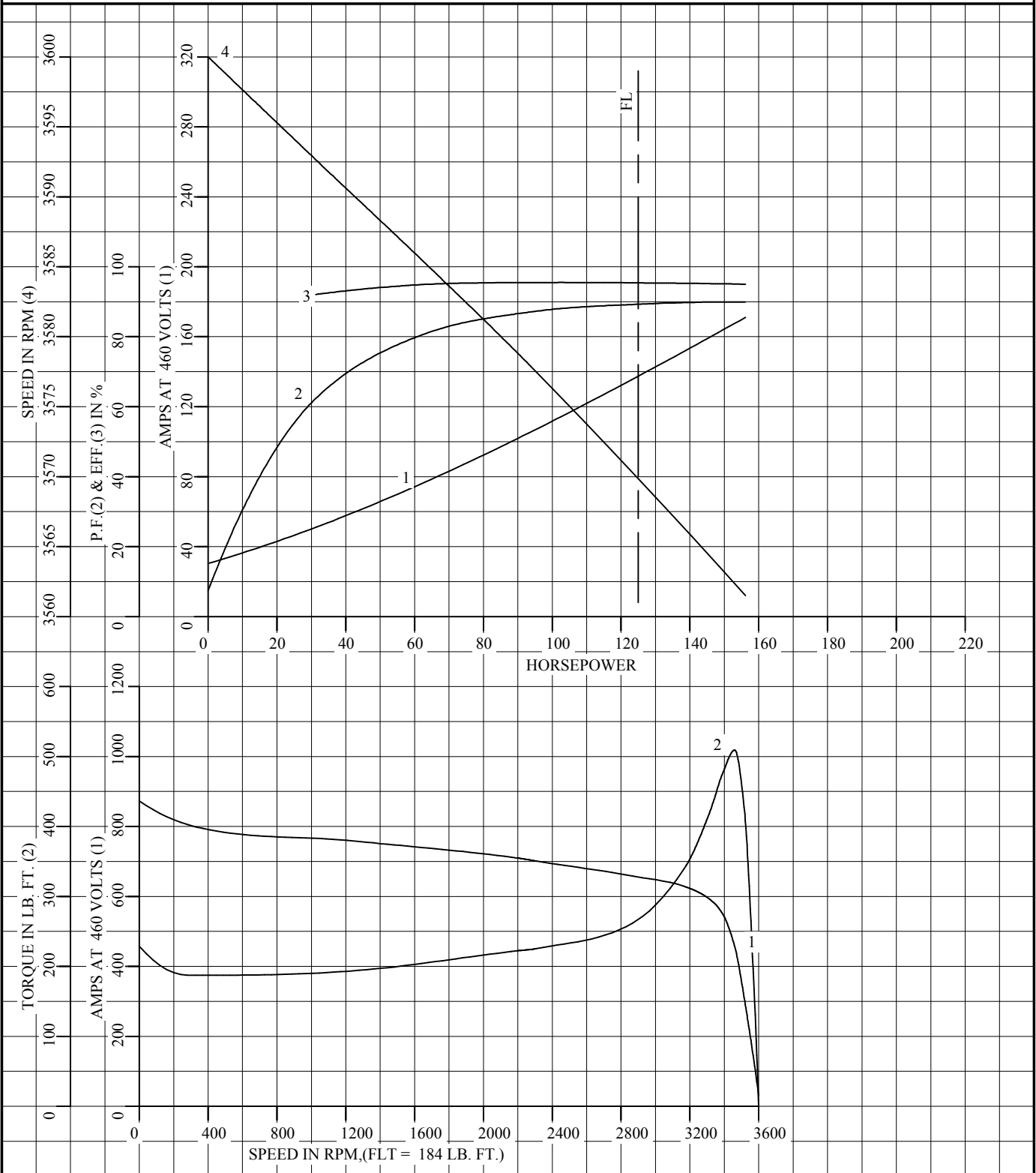
NP2349L												
SPEC NO.	P44G3901			CAT.NO.		EM4412T-4				FRAME	444TS	
HP	125	VOLTS		460		PHASE	3	DESIGN	B	TYPE	P	
RPM	3570	AMPS	137		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	65BC03J30X			ENCL	TEFC	CODE	F					
SER.NO.				POWER FACTOR		89		NEMA-NOM-EFFICIENCY			95	
						MAX CORR KVAR		18.0		GUARANTEED EFFICIENCY		94.1
						NEMA NOM/CSA QUOTED EFF						
						MOTOR WEIGHT						

Accessories

Part number	Description	Multiplier
089490104B	BRKT,DE 089490103WCA, C-Face	P1
089490108A	D-FLANGE EP MACHINING, G28 W/6313 BRG	P1

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	444TS	125	P	3/60	3570	460		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
137	CONT	40/F	1.15	B	F	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
-	418143-8-RE	---	---	.0343				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	30.4	3600	7.45	0			
1/4	31.3	51.0	3593	62.3	92.1			
2/4	62.5	76.5	3585	80.7	94.9			
3/4	93.8	106	3578	87.1	95.5			
4/4	125	137	3570	89.3	95.4			
5/4	156	171	3562	89.9	95.0			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	125	229	873			
PULL UP		288	102	187	804			
BREAKDOWN		3461	277	509	456			
FULL LOAD		3570	100	184	137			
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA								
		DR. BY	J. TSAO	A-C MOTOR PERFORMANCE DATA A44WG3534-R001 ISSUE DATE 04/05/21				
		CK. BY	T. KELATI					
		APP. BY	T. KELATI					
		DATE	08/10/11					

REL S.O.	RPM 3570	S.F. 1.15	ROTOR 418143-8-RE
FRAME 444TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 137	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0343
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



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

BALDOR
A MEMBER OF THE ABB GROUP

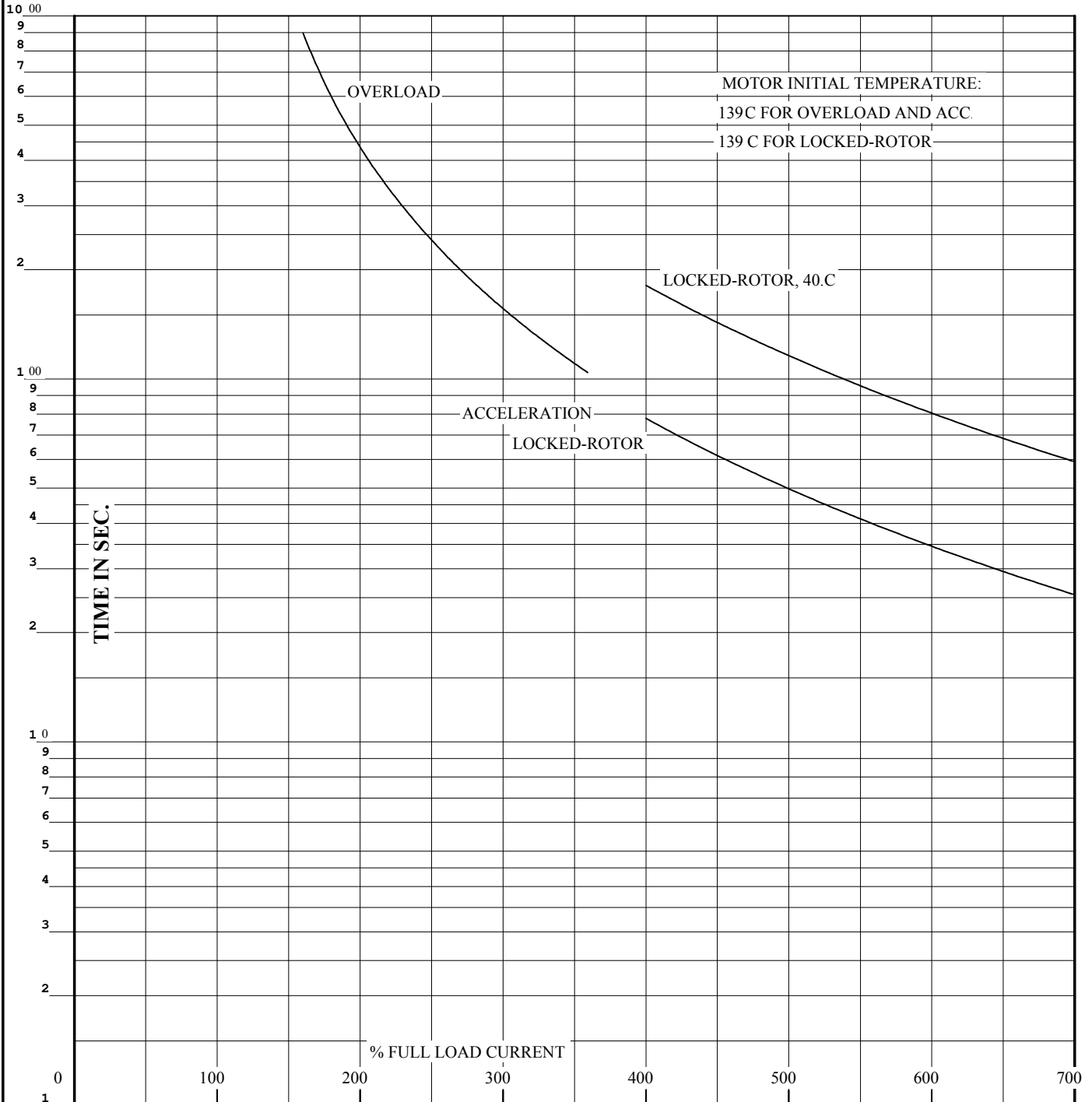
DR. BY J. TSAO
CK. BY T. KELATI
APP. BY T. KELATI
DATE 08/10/11

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG3534-R001

ISSUE DATE 04/05/21 Page 7 of 11

REL. S.O.	RPM 3570	S.F. 1.15	ROTOR 418143-8-RE
FRAME 444TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 137	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0343
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

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

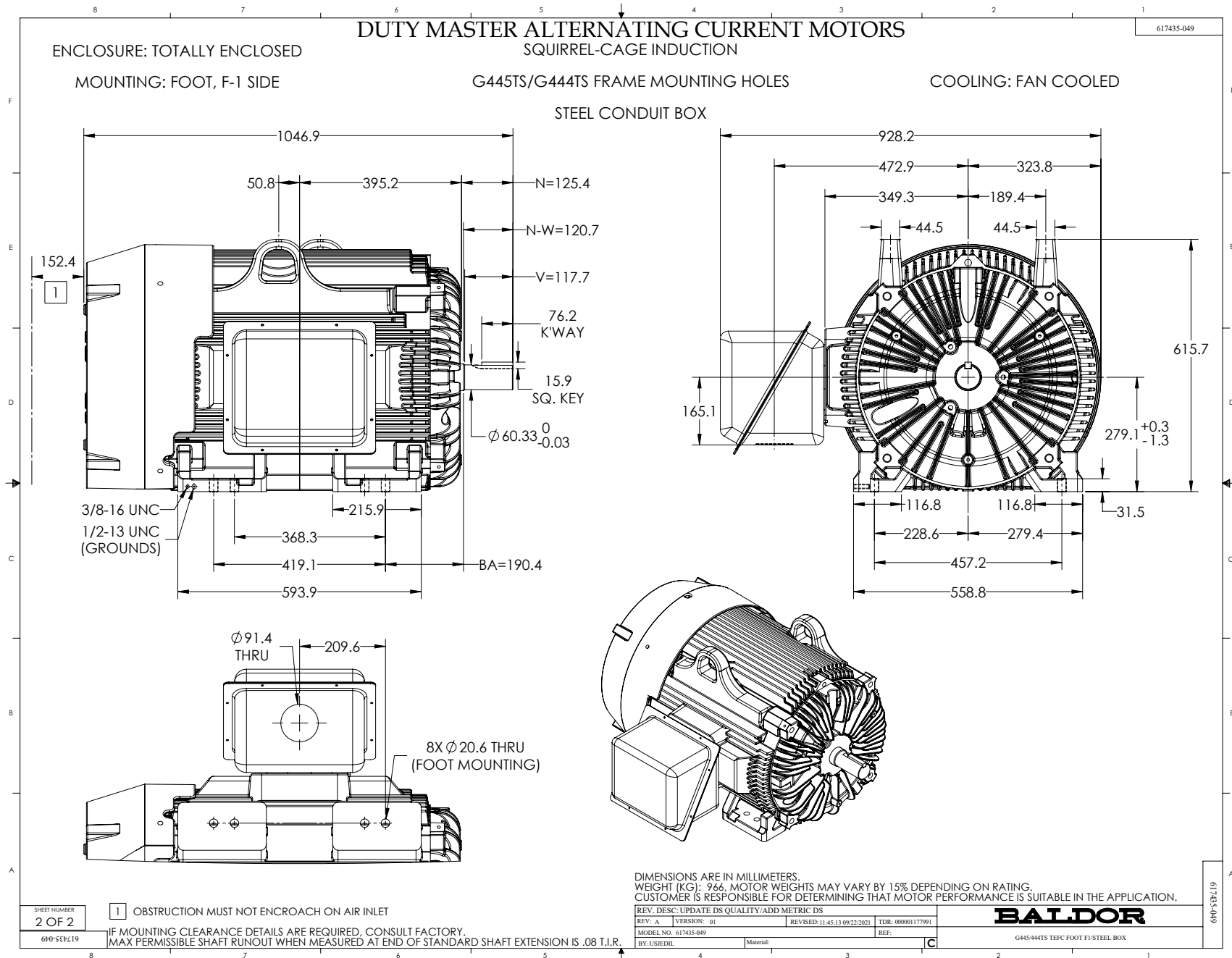


DR. BY	J. TSAO
CK. BY	T. KELATI
APP. BY	T. KELATI
DATE	08/10/11

**A-C MOTOR
PERFORMANCE
CURVES**

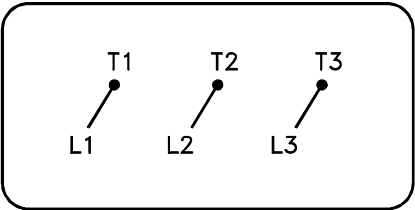
A44WG3534-R001

ISSUE DATE 04/05/21 Page 8 of 11



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