

ABB BALDOR RELIANCE III

Customer information packet

ECP844306TR-5

300HP, 1190RPM, 3PH, 60HZ, L449T, TEFC, F1

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	L449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	30-60
Current @ Voltage	272.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	272.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4005
Layout	617434-820
Eff. date	03-15-2024
CD Diagram	416820-036
Poles	06
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	12-19-2019

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	60.47 IN
Power Factor	86
Product Family	General Industrial
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	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL SHC -220 GREASE	

NP4566

CAT NO	ECP844306TR-5			SPEC NO.		A44-8777-4005						
HP	300	AMPS	272		VOLTS		575		DESIGN	B		
FRAME SIZE	L449T	RPM	1190	HZ		60	AMB	40	SF	1.15		
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA		6318		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X		TYPE	ENCL	TEFC	CODE	G					
O.D.E. BRG.	90BC03J30X		POWER FACTOR			86		NEMA-NOM-EFFICIENCY			95.8	
3/4 LOAD EFF.	96.1	IP	56	MAX CORR KVAR			61		GUARANTEED EFFICIENCY			95
TEMP CODE	T3	TEMP =		200								
CHP HZ	60-90	CT HZ	30-60	VT HZ		0-60						
INVERTER-TEMP-CODE	T3											
SER.NO.				MOTOR WEIGHT								

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	300	P	3/60	1190	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
272	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833394	418143087SE	---	---	.0215		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	80.6	1200	4.12	0	
1/4	75.1	104	1197	57.6	93.8	
2/4	150	151	1195	77.5	95.8	
3/4	225	209	1192	83.9	96.1	
4/4	300	272	1189	86.0	95.8	
5/4	375	339	1186	86.9	95.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	156	2063	1771	
PULL UP		625	137	1815	1518	
BREAKDOWN		1147	256	3394	941	
FULL LOAD		1189	100	1324	272	
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA XE MOTOR - NEMA NOM EFF 95.8 PCT						
		DR. BY G. R. WEBB		A-C MOTOR PERFORMANCE A44WG4005-R002 DATA ISSUE DATE 02/27/20		
		CK. BY W. L. SMITH				
		APP. BY W. L. SMITH				
		DATE 12/17/15				

REL S.O.

 RPM **1190**

 S.F. **1.15**

 ROTOR **418143087SE**

 FRAME **L449T**

 VOLTS **575**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **300**

 AMPS **272**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

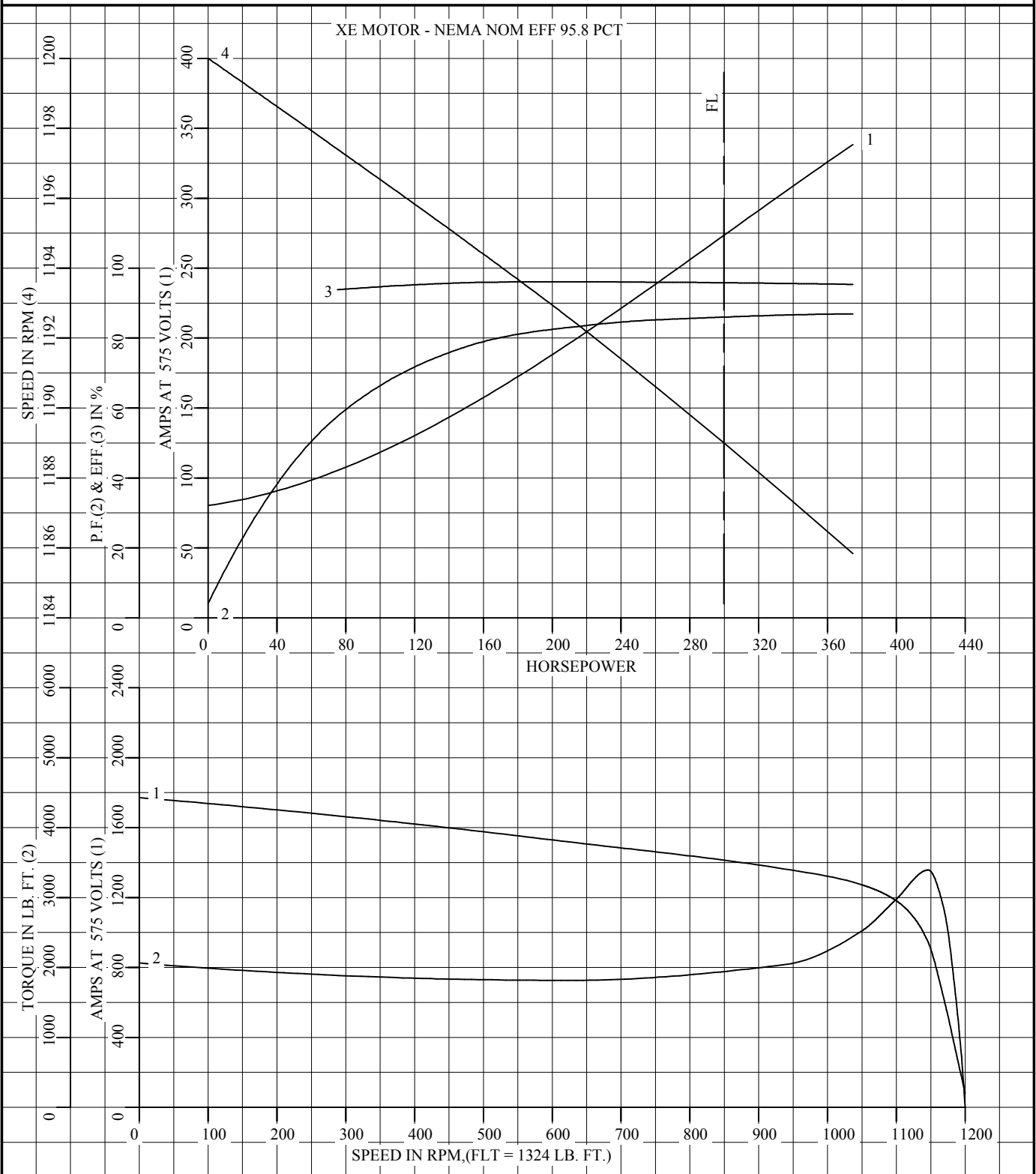
 STATOR RES. @ 25 °C **.0215**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **833394**

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 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 G. R. WEBB
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 12/17/15

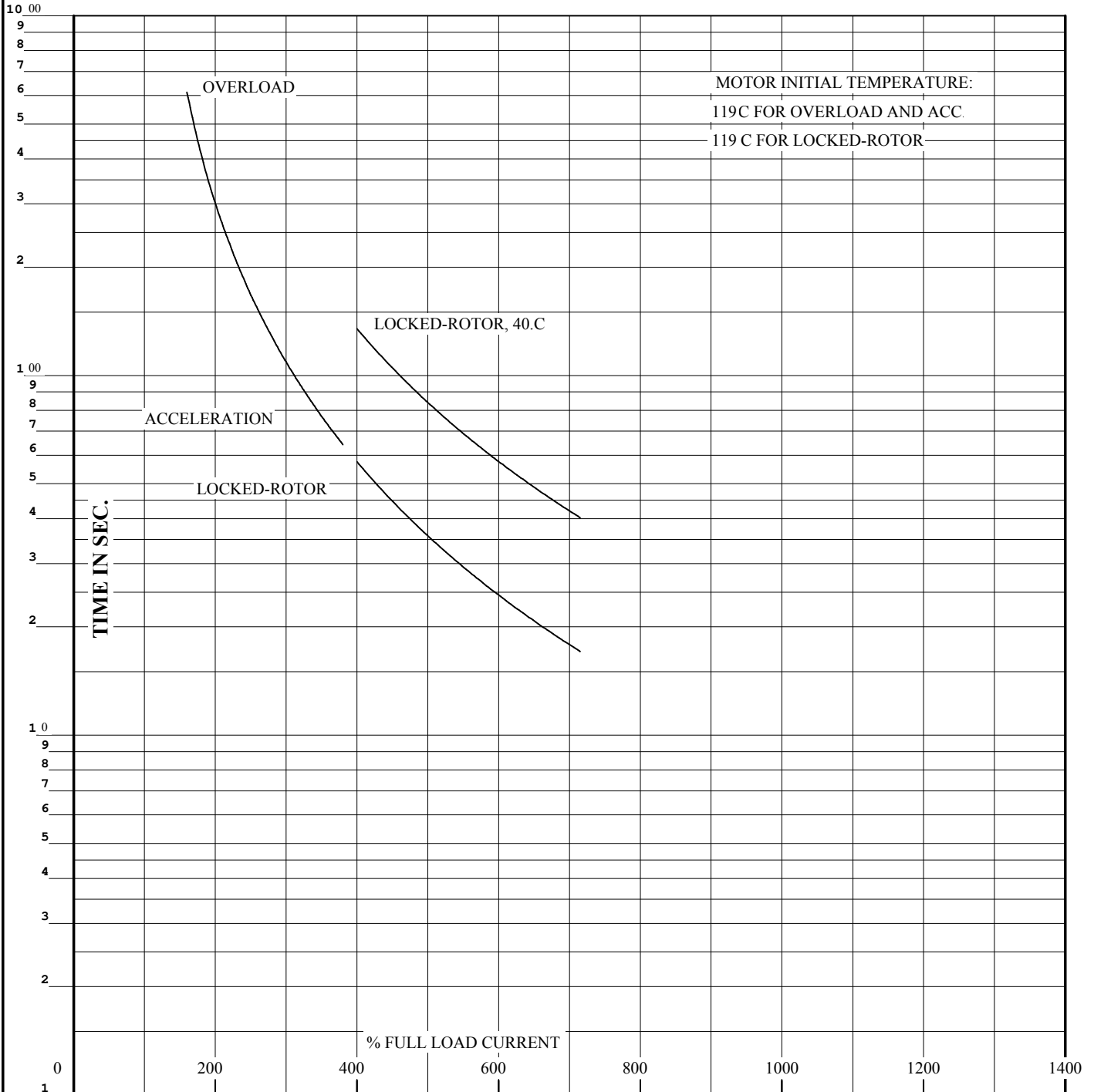
**A-C MOTOR
PERFORMANCE
CURVES**

A44WG4005-R002

ISSUE DATE **02/27/20**

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REL. S.O.	RPM 1190	S.F. 1.15	ROTOR 418143087SE
FRAME L449T	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 300	AMPS 272	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0215
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 833394	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR - NEMA NOM EFF 95.8 PCT

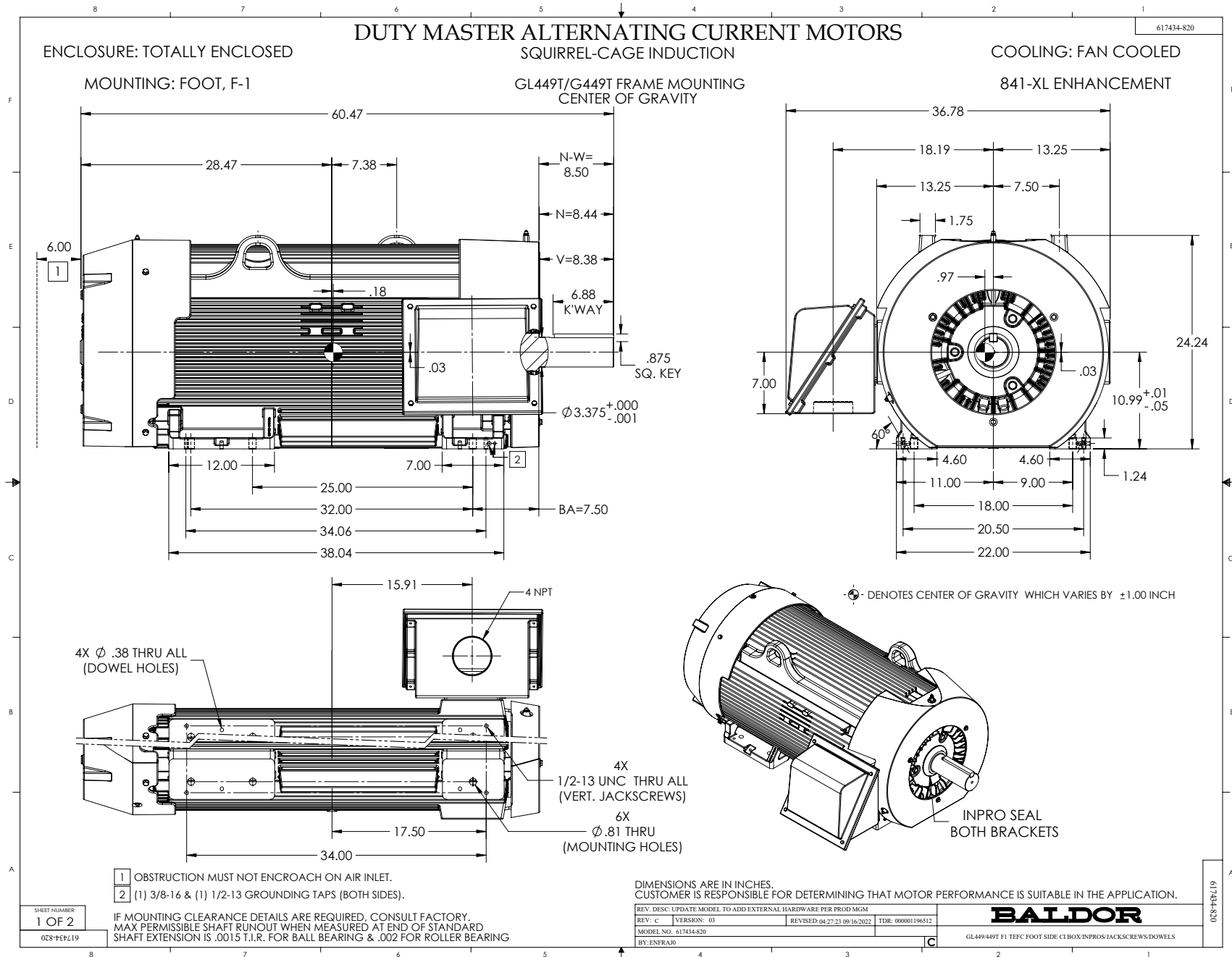
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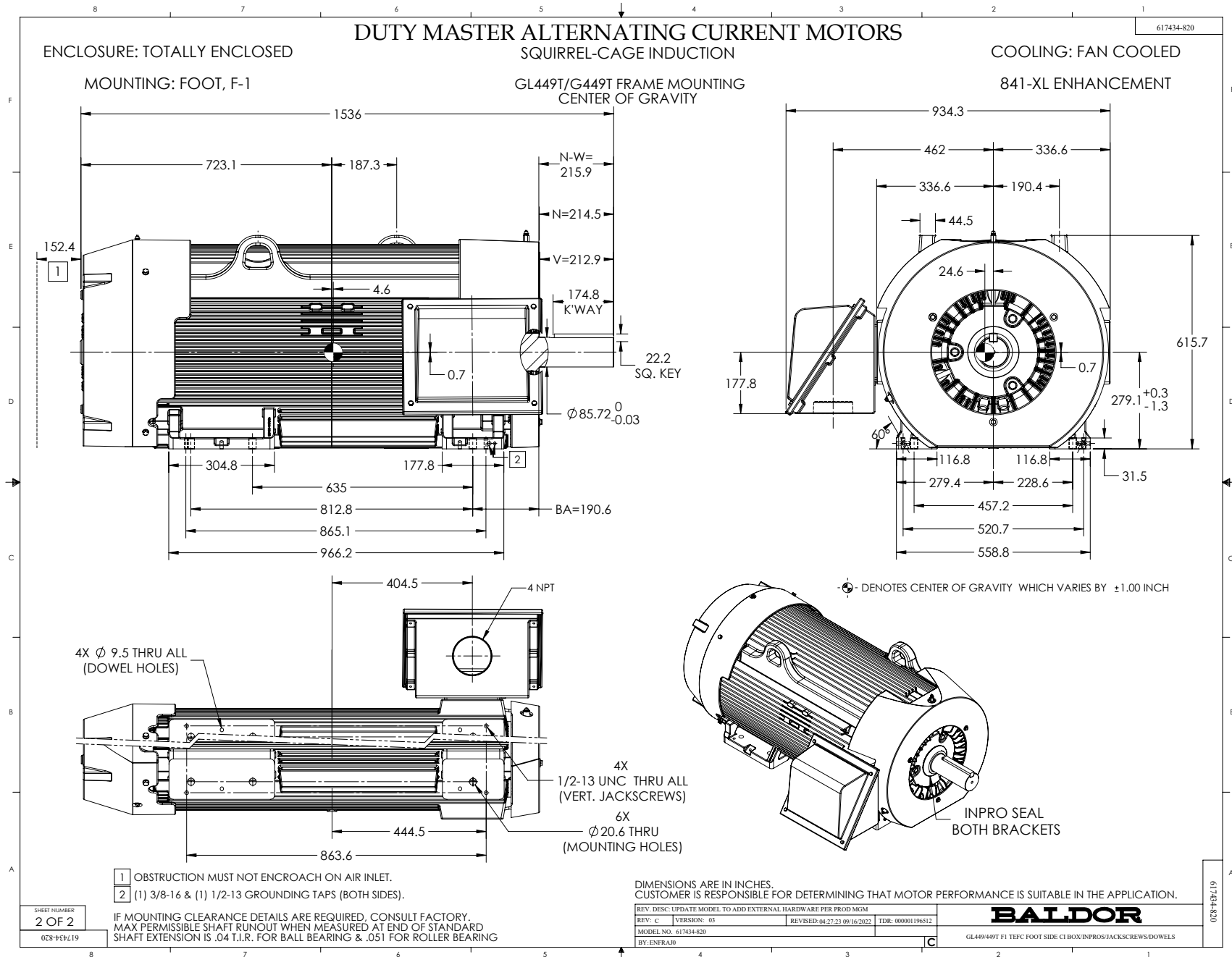


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**A-C MOTOR
PERFORMANCE
CURVES**

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ISSUE DATE 02/27/20 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