

ABB BALDOR RELIANCE III

Customer information packet

ECP844256TR-4

250HP, 1189RPM, 3PH, 60HZ, 449T, TEFC, F1

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	449T
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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CCSAUSEEV NEMA_PREMIUM UR
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	286.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	661
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	286.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2257
Layout	617434-845
Eff. date	12-11-2023
CD Diagram	416820-036
Poles	06
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	10-01-2019

KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	53.47 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	1189 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EY				
CAT NO	ECP844256TR-4	SPEC NO.	A44-9119-2257	
NO. ROTOR BARS	71	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		86.8
5 YEAR WARRANTY		WINDING RES AT 25 C	.0162	OHMS
MFG. DATE		SER.NO		

000901002AAA	
AIR COOLED HEAT EXCHANGER MTR	
IP56 CONSTRUCTION	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449LP	250	P	3/60	1189	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
286	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418143090SE	---	---	.0162		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	87.8	1200	3.93	0	
1/4	62.6	112	1197	55.7	93.8	
2/4	125	160	1195	76.3	95.8	
3/4	187	220	1192	83.0	96.0	
4/4	250	286	1189	85.3	95.8	
5/4	312	355	1186	86.5	95.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	162	1786	1847	
PULL UP		240	142	1566	1791	
BREAKDOWN		1148	252	2788	1052	
FULL LOAD		1189	100	1104	286	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA NEMA NOM. EFF. 95.8 PCT.						
		DR. BY W. L. SMITH		A-C MOTOR PERFORMANCE DATA A44WG2257-R026 ISSUE DATE 03/19/21		
		CK. BY C. E. JAMISON				
		APP. BY W. L. SMITH				
		DATE 01/26/18				

REL S.O.

 RPM **1189**

 S.F. **1.15**

 ROTOR **418143090SE**

 FRAME **449LP**

 VOLTS **460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **250**

 AMPS **286**

 CODE LETTER **G**

TEST DATE ---

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

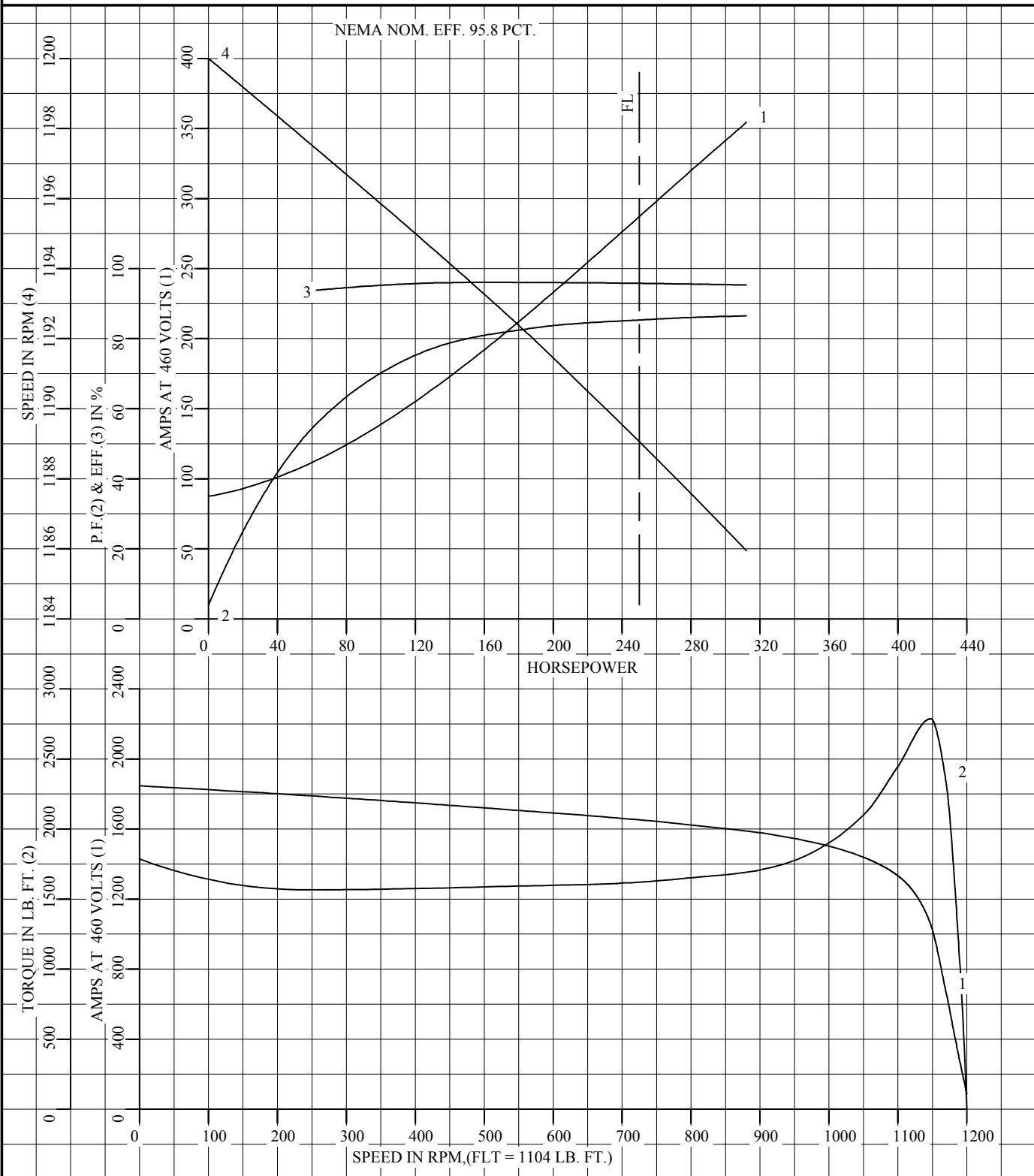
 STATOR RES. @ 25 °C **.0162**

 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 W. L. SMITH
CK. BY C. E. JAMISON
APP. BY W. L. SMITH
DATE 01/26/18

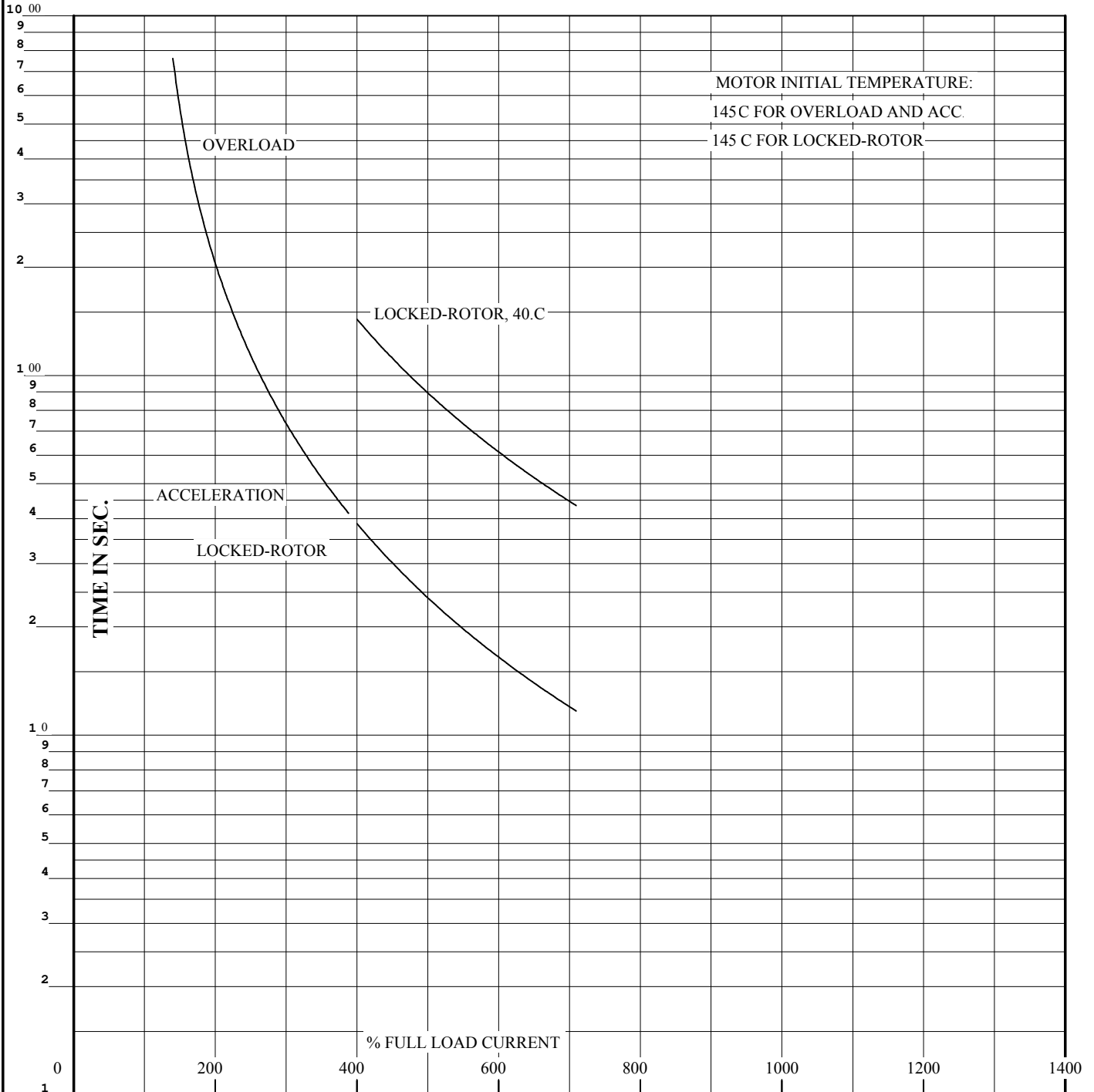
**A-C MOTOR
PERFORMANCE
CURVES**

A44WG2257-R026

ISSUE DATE **03/19/21**

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REL. S.O.	RPM 1189	S.F. 1.15	ROTOR 418143090SE
FRAME 449LP	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 250	AMPS 286	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0162
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOM. EFF. 95.8 PCT.

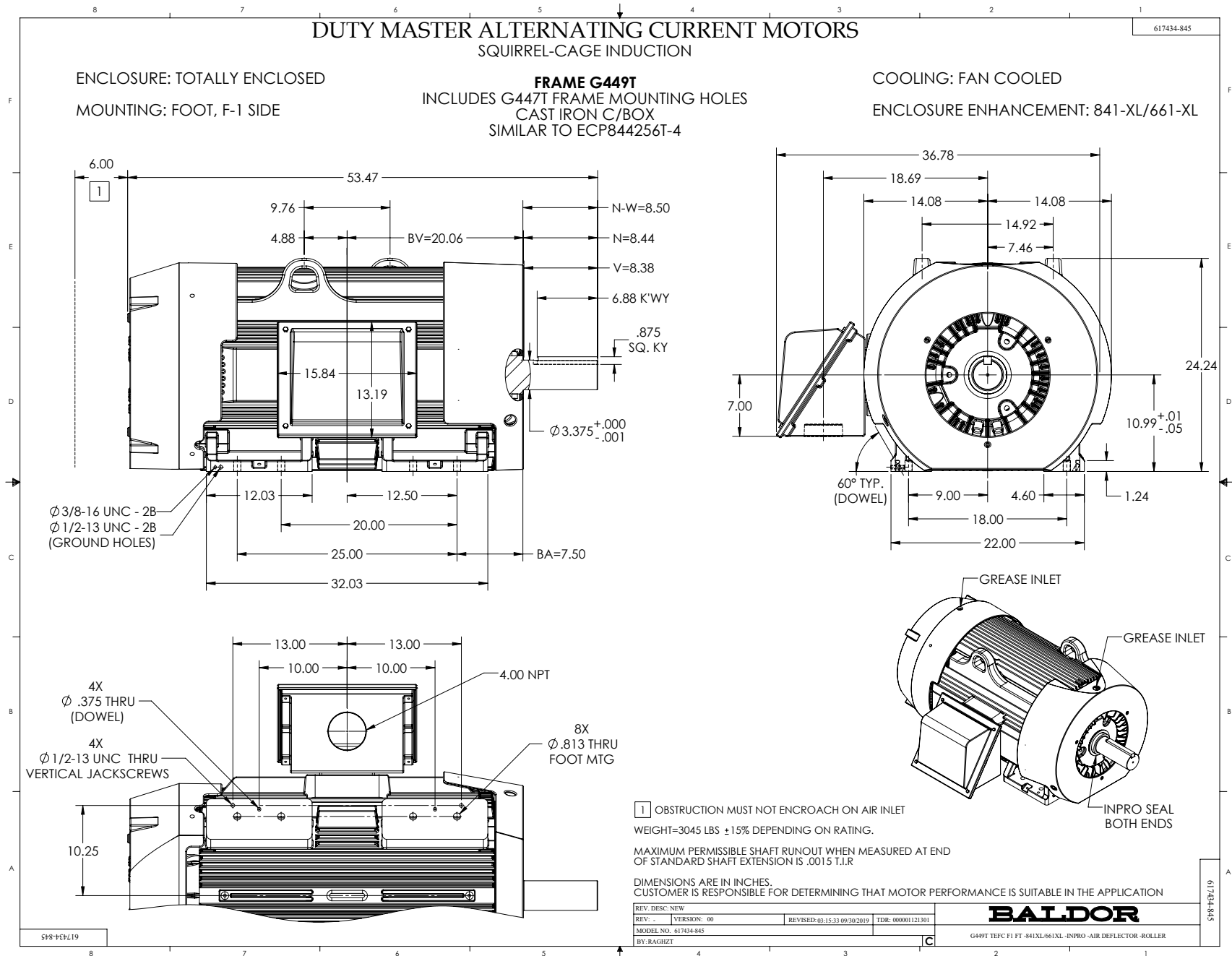
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**A-C MOTOR
PERFORMANCE
CURVES**

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ISSUE DATE 03/19/21 Page 9 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