

ABB BALDOR RELIANCE III

Customer information packet

ECP844206TR-5

200HP, 1190RPM, 3PH, 60HZ, 449T, TEFC, FOOT,
Class - CLI GP A,B,C,D
Division - Division II

Specifications

Enclosure	TEFC
Frame	449T
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	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR CCSA US
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	180.000 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
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	180.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	IP56
KVA Code	G

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1498
Layout	617434-667
Eff. date	12-11-2023
CD Diagram	416820-036
Poles	06
Leads	3#2/0
Proprietary	False
Created date	12-10-2018

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2/0 AWG
Motor Standards	Other
Motor Type	A44160M
Mounting Arrangement	F1
No Load Current	44.2 a
Number of Poles	6
Overall Length	53.27 IN
Power Factor	87
Pulley End Bearing Type	Roller
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
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

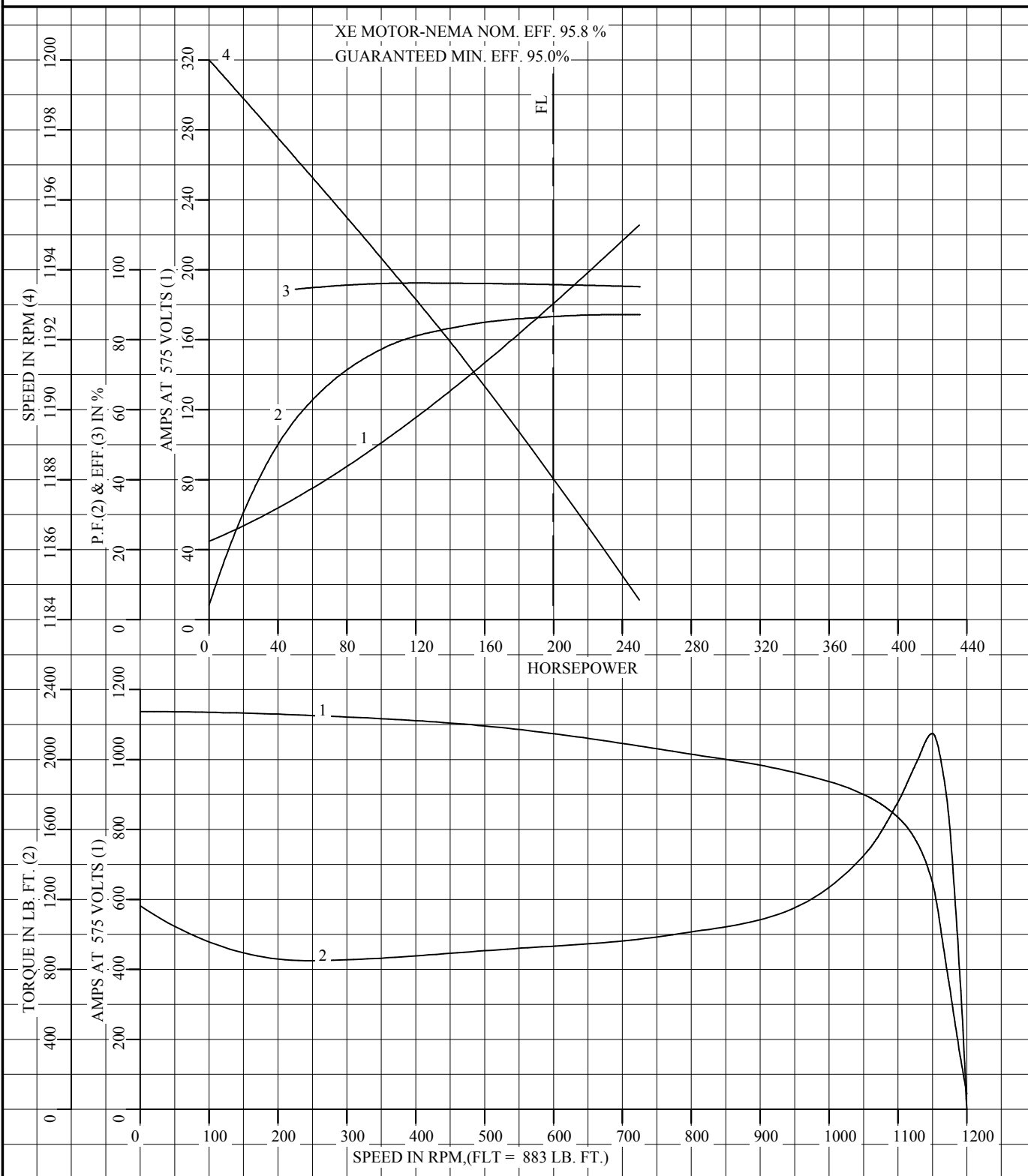
NP4566															
CAT NO	ECP844206TR-5			SPEC NO.		A44-1503-1498									
HP	200	AMPS		180	VOLTS		575		DESIGN		B				
FRAME SIZE	449T	RPM		1190	HZ		60	AMB		40	SF		1.15		
D.E. BRG.DATA	NU222			O.D.E. BRG.DATA		6318			PH	3	DUTY		CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X			TYPE		ENCL	TEFC		CODE		G				
O.D.E. BRG.	90BC03J30X			POWER FACTOR			87		NEMA-NOM-EFFICIENCY				95.8		
3/4 LOAD EFF.	96.5	IP	56	MAX CORR KVAR				35.0		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											

000613007EX				
CAT NO	ECP844206TR-5	SPEC NO.	A44-1503-1498	
NO. ROTOR BARS	71	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		44.2
5 YEAR WARRANTY		WINDING RES @25 C	.0345	OHMS
MFG. DATE		SER.NO		

NP2496L	
MOBIL SHC -220 GREASE	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	200	P	3/60	1190	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
180	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.		TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)	
833245	418143-98-XE	---		---	.0345	
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	44.8	1200	4.16	0	
1/4	50.1	69.5	1197	57.2	94.4	
2/4	100	101	1194	77.3	96.1	
3/4	150	139	1191	84.2	96.1	
4/4	200	180	1188	86.6	95.8	
5/4	250	226	1185	87.2	95.2	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	132	1163	1137	
PULL UP		240	96.3	850	1126	
BREAKDOWN		1150	243	2149	648	
FULL LOAD		1188	100	883	180	
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 % GUARANTEED MIN. EFF. 95.0%						
		DR. BY G. R. WEBB		A-C MOTOR PERFORMANCE A44WG1498-R001 DATA ISSUE DATE 12/06/19		
		CK. BY W. L. SMITH				
		APP. BY W. L. SMITH				
		DATE 10/08/10				
		Page 7 of 10				

REL S.O.	RPM 1190	S.F. 1.15	ROTOR 418143-98-XE
FRAME 449T	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 200	AMPS 180	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0345
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 833245	OHMS (BETWEEN LINES)



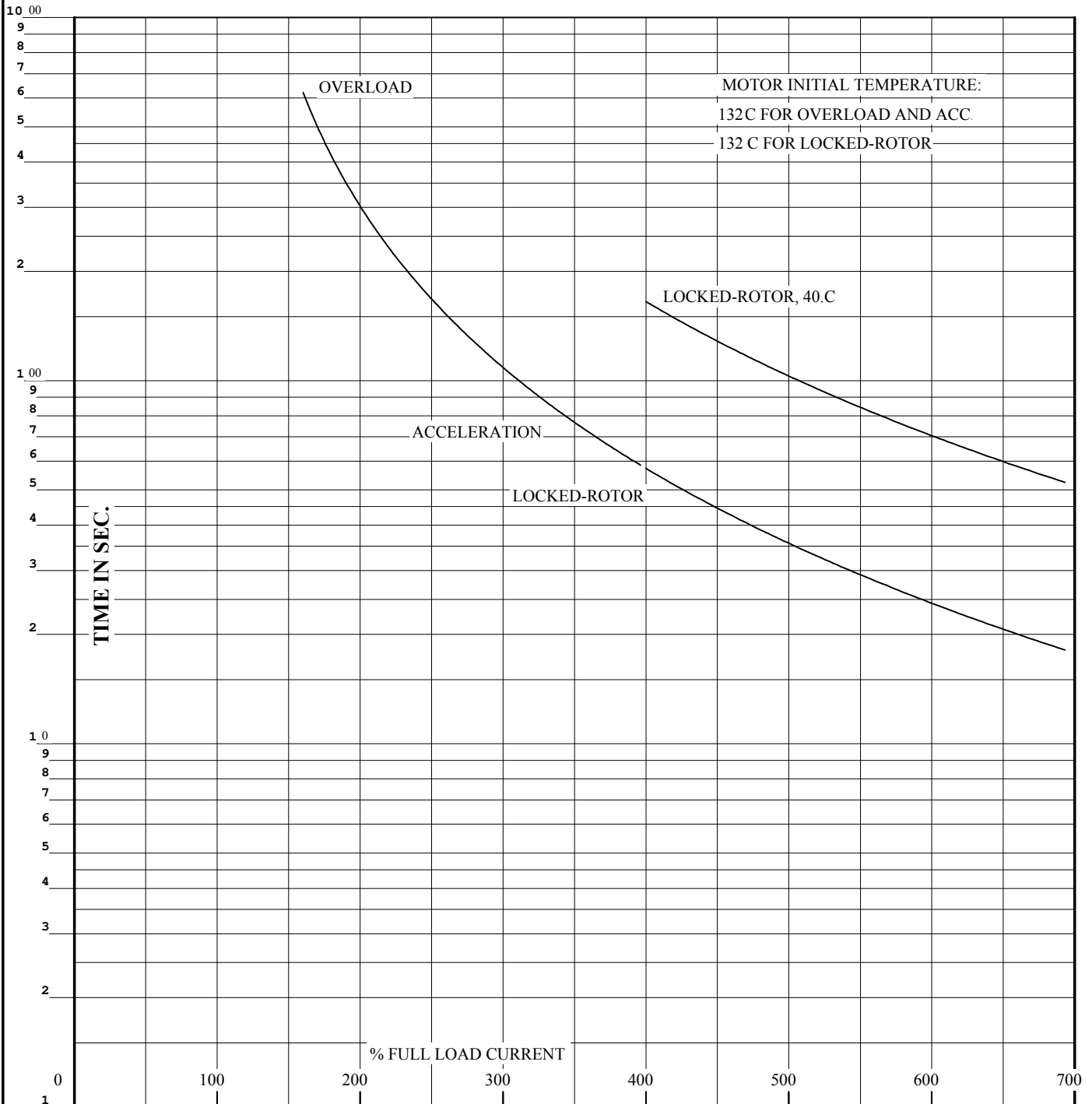
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BALDOR
 A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
 CK. BY W. L. SMITH
 APP. BY W. L. SMITH
 DATE 10/08/10

**A-C MOTOR
PERFORMANCE
CURVES** **A44WG1498-R001**
 ISSUE DATE 12/06/19

REL. S.O.	RPM 1190	S.F. 1.15	ROTOR 418143-98-XE
FRAME 449T	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 200	AMPS 180	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0345
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 833245	OHMS (BETWEEN LINES)


THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.8 %
GUARANTEED MIN. EFF. 95.0%

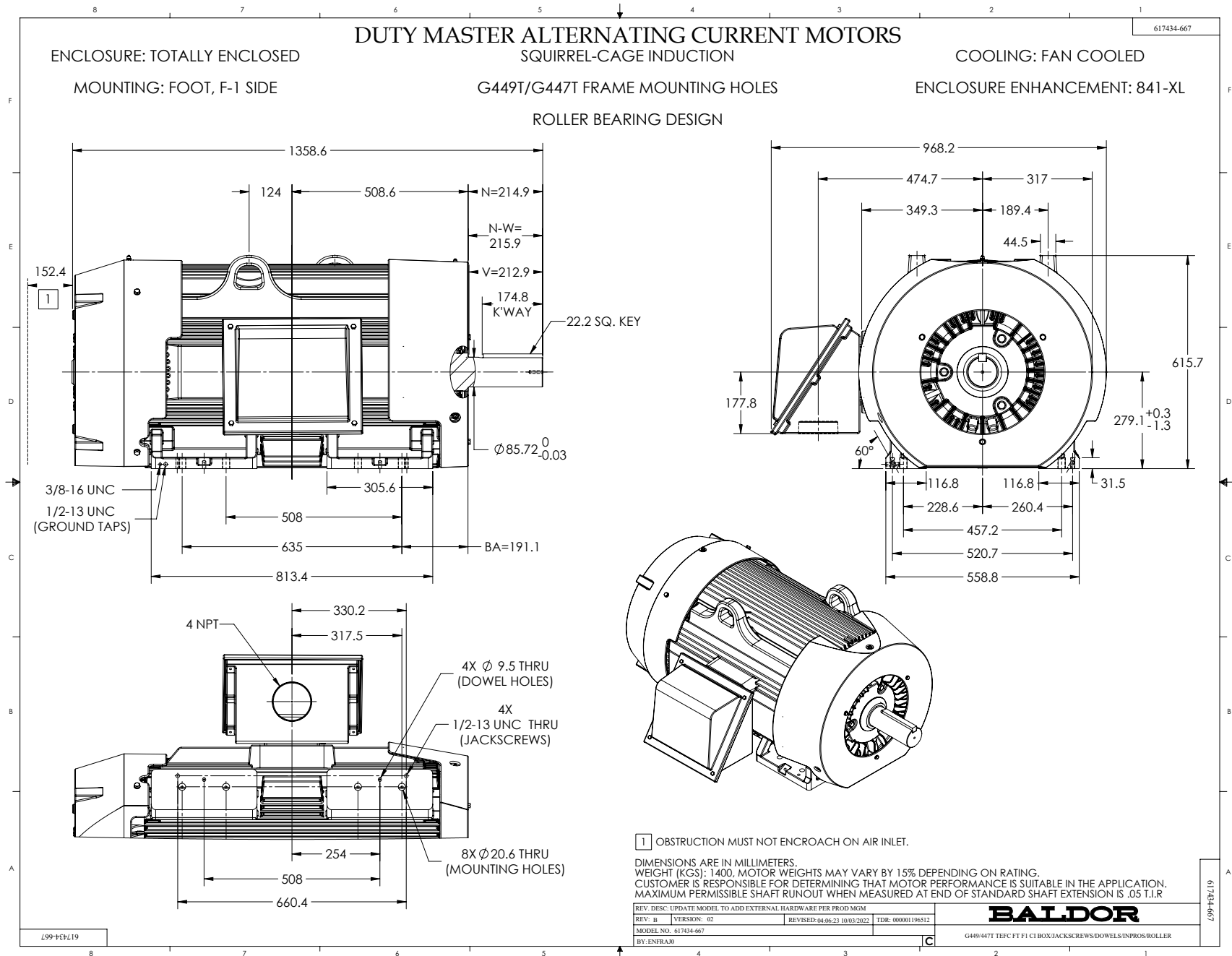
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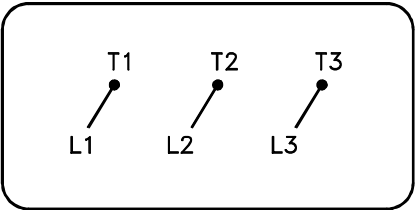
**A-C MOTOR
PERFORMANCE
CURVES**

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ISSUE DATE 12/06/19 Page 9 of 12



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