

ABB BALDOR RELIANCE III

Customer information packet

ECP844256T-4

250HP, 1200RPM, 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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CCSA US
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	287.000 A @ 460.0 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	287.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1499
Layout	617434-665
Eff. date	12-11-2023
CD Diagram	416820-036
Poles	06
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	12-12-2018

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	None
Motor Type	A44160M
Mounting Arrangement	F1
No Load Current	82.3 a
Number of Poles	6
Overall Length	53.47 IN
Power Factor	85
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	ECP844256T-4	SPEC NO.	A44-8790-1499						
HP	250	AMPS	287	VOLTS	460	DESIGN	B		
FRAME SIZE	449T	RPM	1190	HZ	60	AMB	40	SF	1.15
D.E. BRG.DATA	6318	O.D.E. BRG.DATA	6318	PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	90BC03J30X	TYPE	ENCL	TEFC	CODE	G			
O.D.E. BRG.	90BC03J30X	POWER FACTOR	85	NEMA-NOM-EFFICIENCY	95.8				
3/4 LOAD EFF.	96.0	IP	56	MAX CORR KVAR	48.0	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	ECP844256T-4	SPEC NO.	A44-8790-1499	
NO. ROTOR BARS	71	GREASE TYPE	POLYREX EM	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE	82.3	
5 YEAR WARRANTY		WINDING RES @25 C	.01634	OHMS
MFG. DATE		SER.NO		

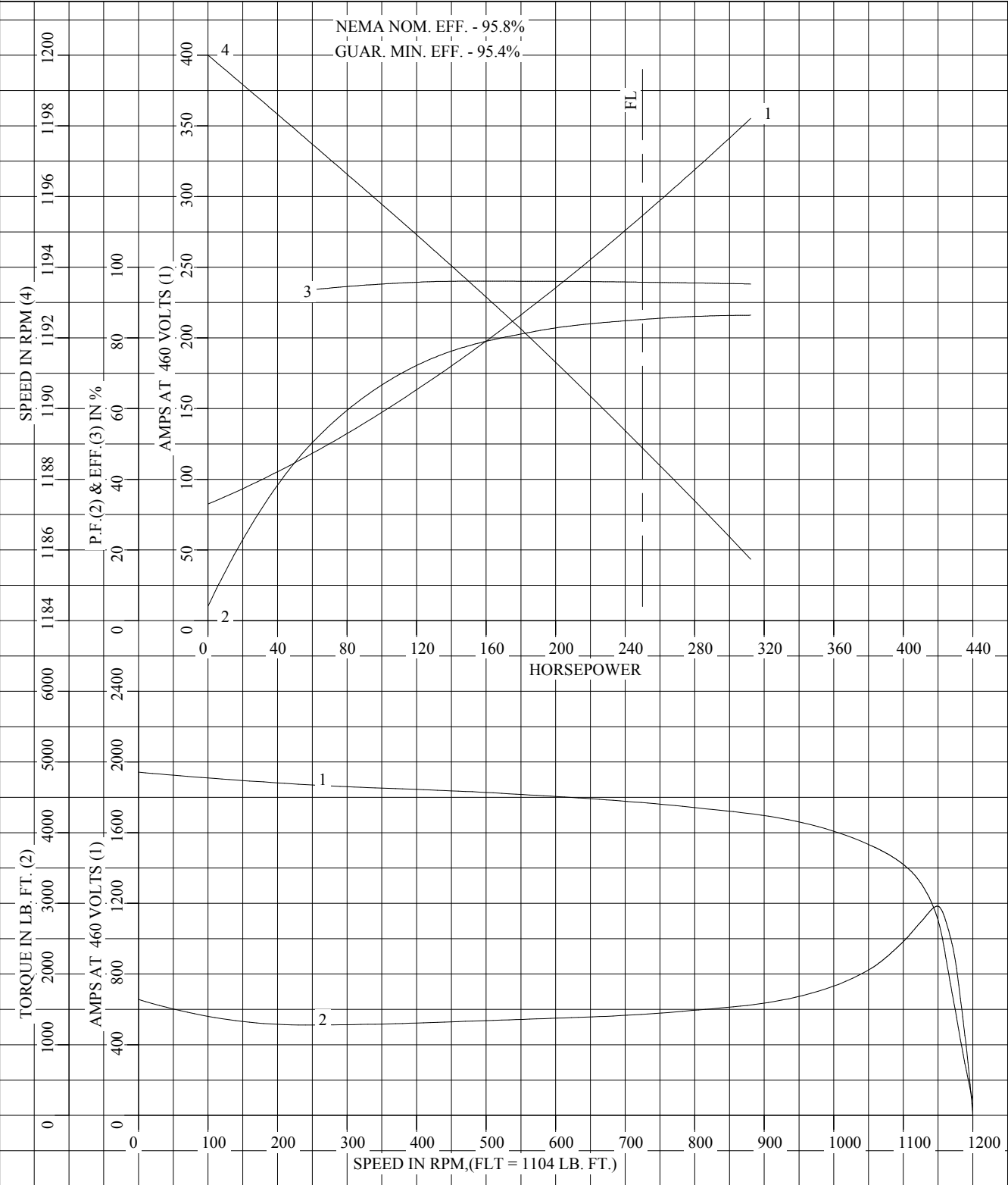
REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	250	P	3/60	1190	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
287	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833228	418143083LE	---	---	.0163		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	82.3	1200	4.07	0	
1/4	62.6	121	1197	51.7	93.8	
2/4	125	166	1195	73.3	95.8	
3/4	187	223	1192	81.8	96.0	
4/4	250	287	1189	85.2	95.8	
5/4	312	355	1186	86.4	95.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	149	1640	1942	
PULL UP		240	116	1278	1872	
BREAKDOWN		1149	268	2960	1113	
FULL LOAD		1189	100	1104	287	
<p>AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE</p> <p>REMARKS: TYPICAL DATA NEMA NOM. EFF. - 95.8% GUAR. MIN. EFF. - 95.4%</p>						
		DR. BY <u>J.J.HARRISON</u> CK. BY <u>W.L.SMITH</u> APP. BY <u>W.L.SMITH</u> DATE <u>08/31/10</u>		A-C MOTOR PERFORMANCE A44WG1499-R001 DATA		
		ISSUE DATE 12/18/10				

FRAME 449T
HP 250
TYPE P
PHASE/HERTZ 3/60

RPM 1190
VOLTS 460
AMPS 287
DUTY CONT
AMB °C/INSUL 40/F

NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 833228

TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25 °C .0163
OHMS (BETWEEN LINES)



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



DR. BY J.J.HARRISON
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 08/31/10

**A-C MOTOR
PERFORMANCE CURVES** A44WG1499-R001
ISSUE DATE 12/18/10

REL. S.O.

RPM 1190

S.F. 1.15

ROTOR 418143083LE

FRAME 449T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 250

AMPS 287

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

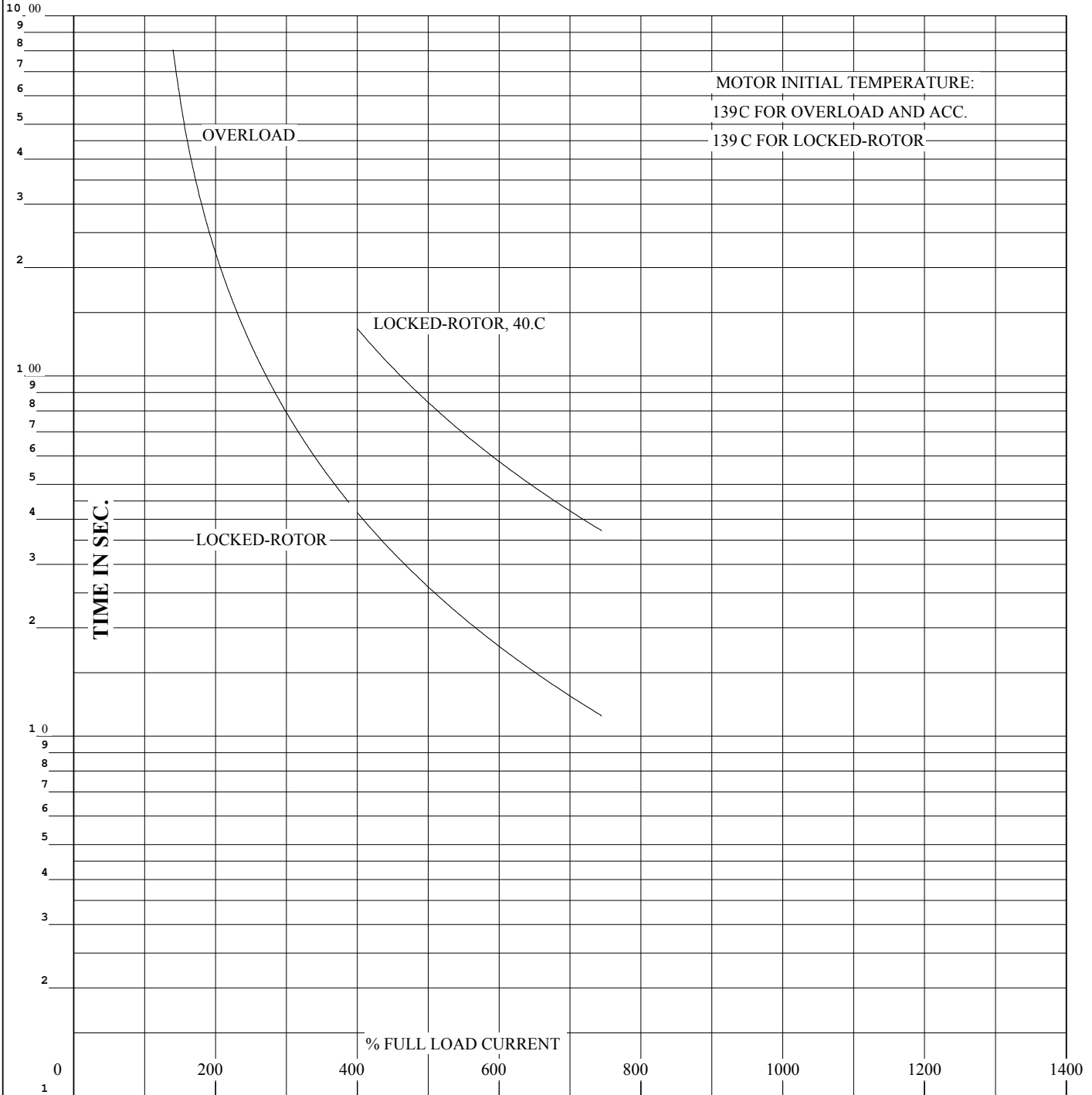
STATOR RES. @ 25 °C .0163

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 833228

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

NEMA NOM. EFF. - 95.8%

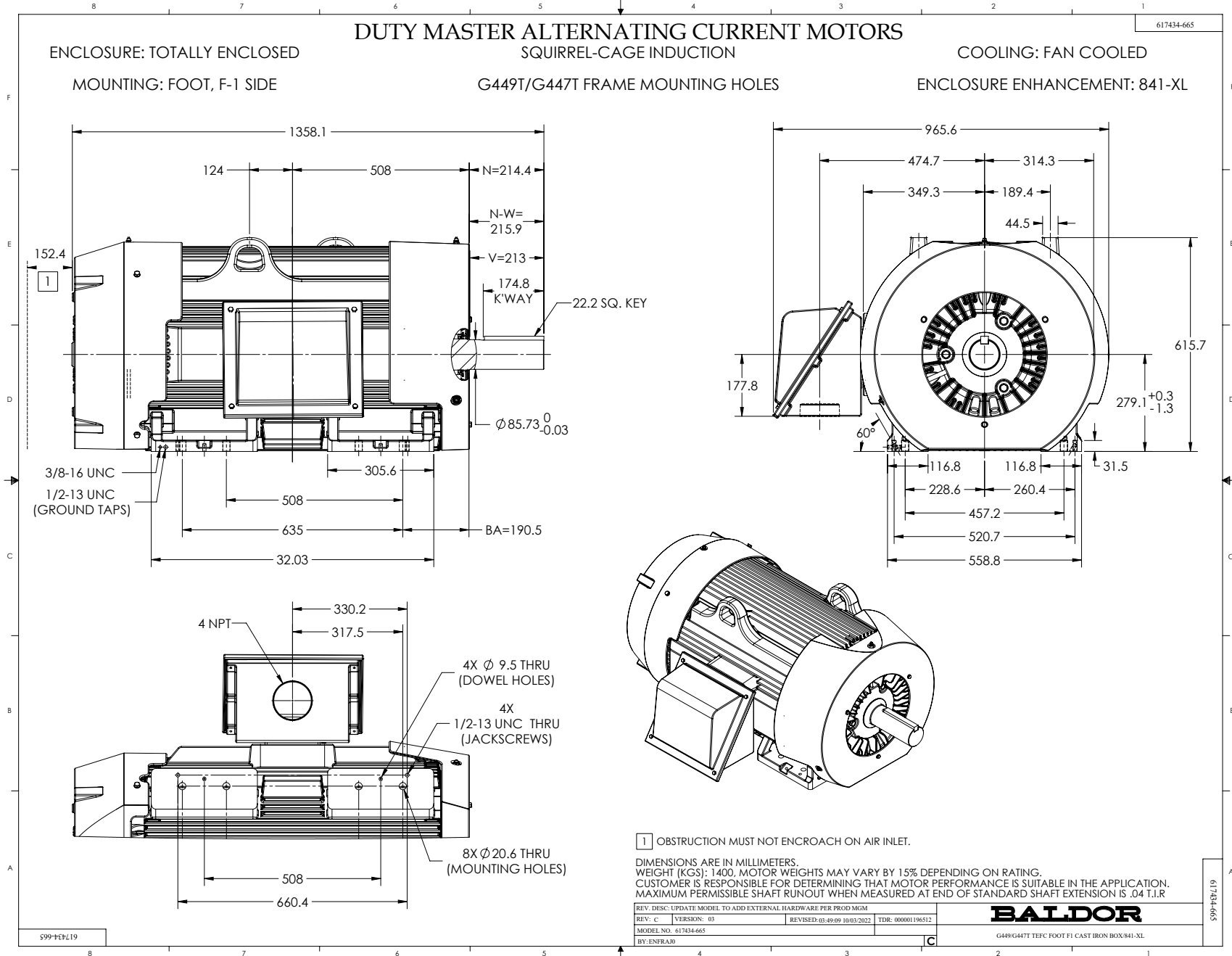
GUAR. MIN. EFF. - 95.4%

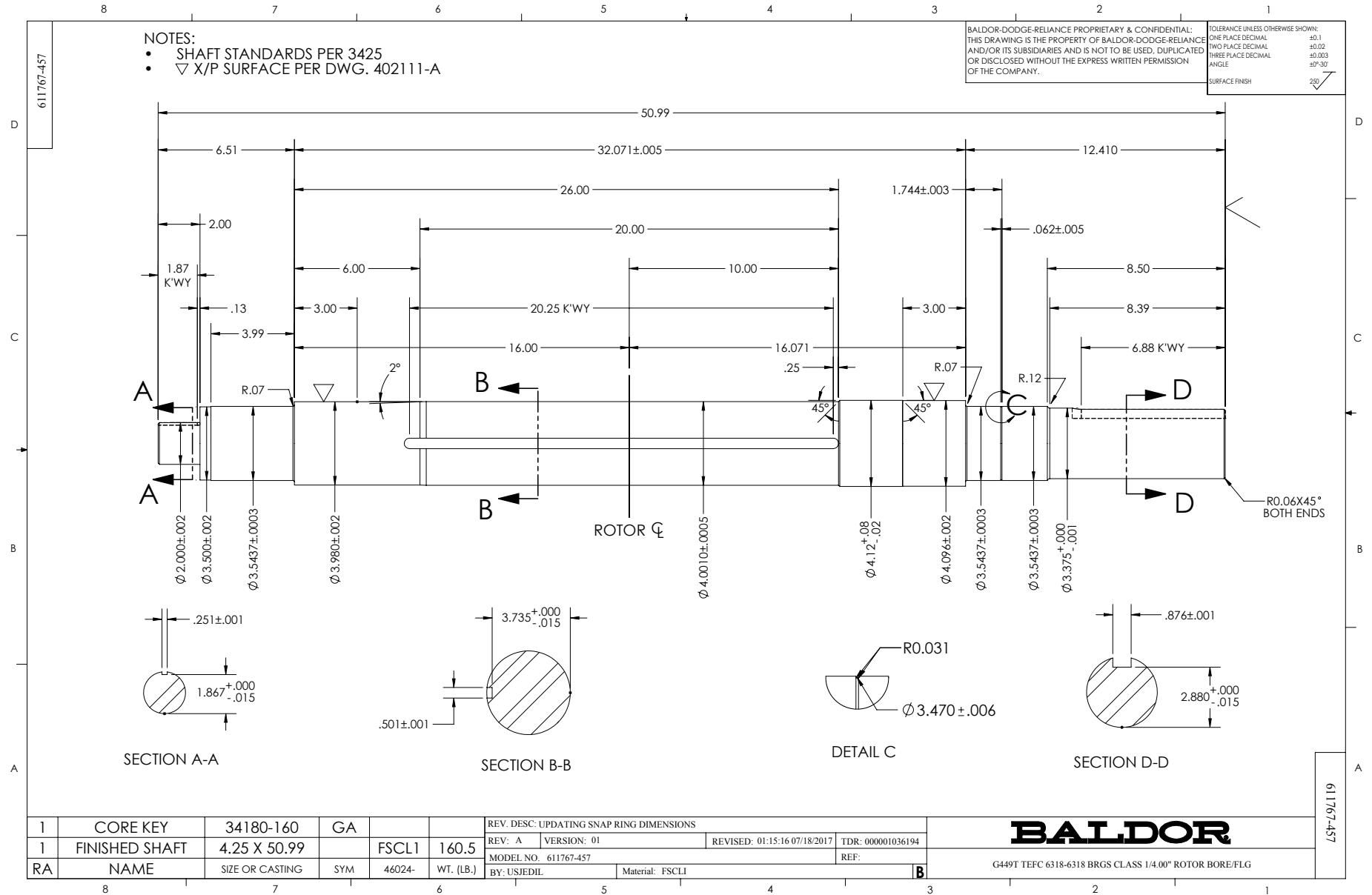
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**A-C MOTOR
PERFORMANCE A44WG1499-R001
CURVES** ISSUE DATE 12/18/10





1	CORE KEY	34180-160	GA		REV. DESC: UPDATING SNAP RING DIMENSIONS
1	FINISHED SHAFT	4.25 X 50.99	FSCL1	160.5	REV: A VERSION: 01
RA	NAME	SIZE OR CASTING	SYM	46024-	WT. (LB.)
				BY: USJEDIL	Material: FSCL1

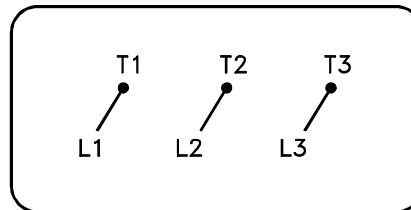
BALDOR

G449T TEFC 6318-6318 BRGS CLASS 1/4.00" ROTOR BORE/FLG

611767-457

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