

ABB BALDOR RELIANCE III

Customer information packet

EM2554T-4CI

125HP, 3565RPM, 3PH, 60HZ, 404TS, ODP, FOOT,

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	404TS
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	CCSA US CCSAUSEEV CSA EEV CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	143.000 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	143.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0224
Layout	617428-120
Eff. date	09-04-2024
CD Diagram	416820-036
Poles	02
Leads	3#2
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A40048M
Mounting Arrangement	F1
Number of Poles	2
Power Factor	86
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3565 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L														
SPEC NO.	P40G295			CAT.NO.		EM2554T-4CI				FRAME	404TS			
HP	125	VOLTS		460		PHASE	3	DESIGN	B	TYPE	P			
RPM	3565	AMPS	143		HZ	60	AMB	40	SF	1.15				
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS		F						
OPP D.E. BEARING	65BC03J30X			ENCL	DP	CODE	F							
SER.NO.				POWER FACTOR		86		NEMA-NOM-EFFICIENCY			95			
					MAX CORR KVAR		25.0		GUARANTEED EFFICIENCY		94.5			
					NEMA NOM/CSA QUOTED EFF									
					MOTOR WEIGHT									

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	404TS	125	P	3/60	3565	460		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
143	CONT	40/B	1.15	B	F	PROT		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
595946	418142005RE	---	---	.0477				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	43.0	3600	5.28	0			
1/4	31.3	55.4	3591	57.4	92.1			
2/4	62.5	79.2	3582	77.9	94.8			
3/4	93.7	109	3573	84.2	95.2			
4/4	125	143	3563	86.2	95.0			
5/4	156	177	3552	87.3	94.5			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	175	323	834			
PULL UP		1545	158	291	751			
BREAKDOWN		3409	235	433	451			
FULL LOAD		3563	100	184	143			
AMPERES SHOWN FOR 460. 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. 95.0% GUARANTEED MIN. EFF. 94.5%								
			DR. BY <u>W. L. SMITH</u> CK. BY <u>G. R. WEBB</u> APP. BY <u>D. M. BYRD</u> DATE <u>03/05/02</u>	A-C MOTOR PERFORMANCE A40WG0224-R002 DATA ISSUE DATE 12/15/10				

FRAME 404TS

RPM 3565

VOLTS 460

NEMA DESIGN B

HP 125

AMPS 143

CODE LETTER F

TEST S.O. TYPICAL DATA

TYPE P

DUTY CONT

ENCLOSURE PROT

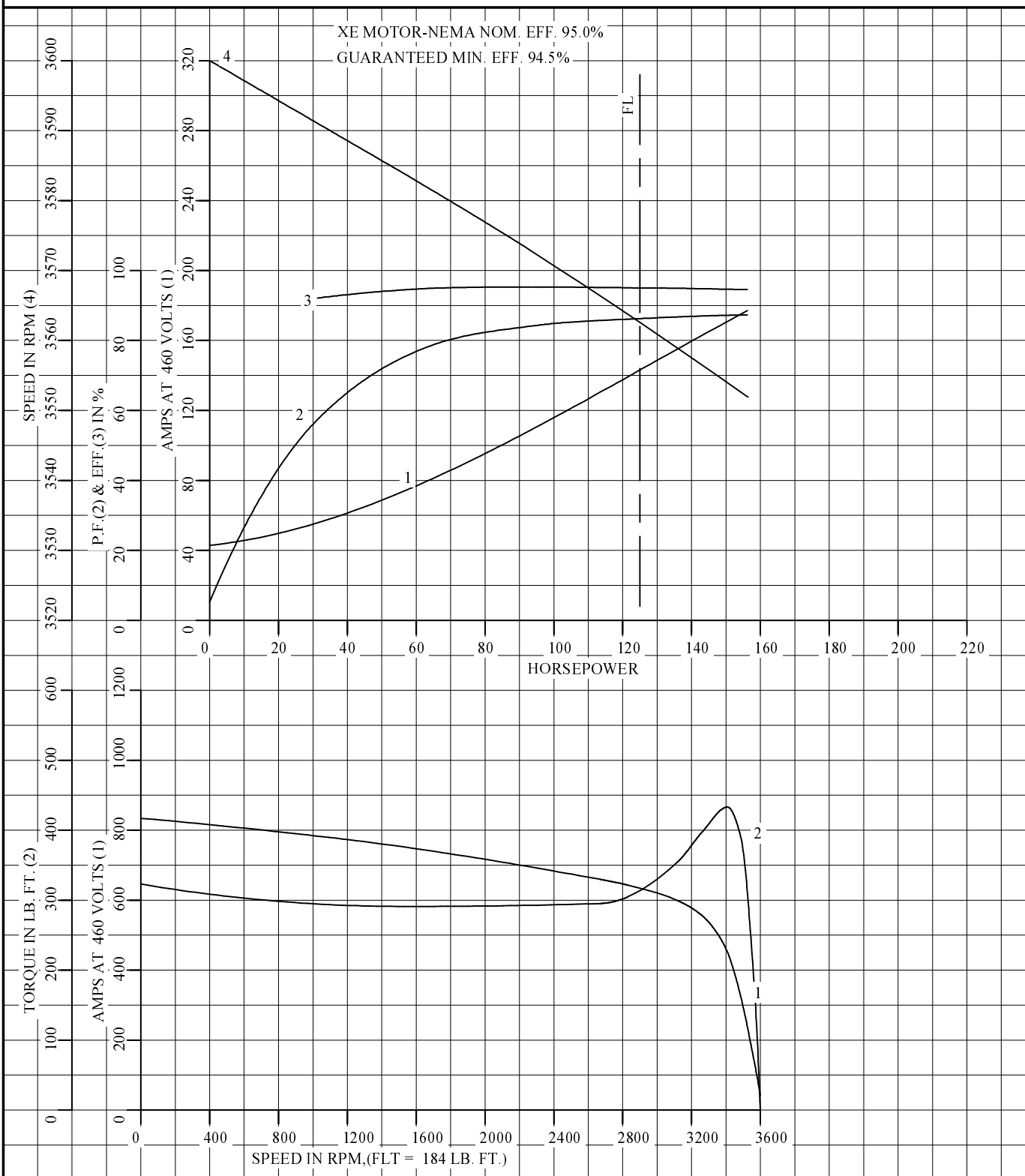
TEST DATE ---

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 595946

STATOR RES. @ 25 °C .0477
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

DR. BY W. L. SMITH
CK. BY G. R. WEBB
APP. BY D. M. BYRD
DATE 03/05/02

**A-C MOTOR
PERFORMANCE
CURVES** A40WG0224-R002
ISSUE DATE 12/15/10

REL. S.O.

RPM 3565

S.F. 1.15

ROTOR 418142005RE

FRAME 404TS

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 125

AMPS 143

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PROT

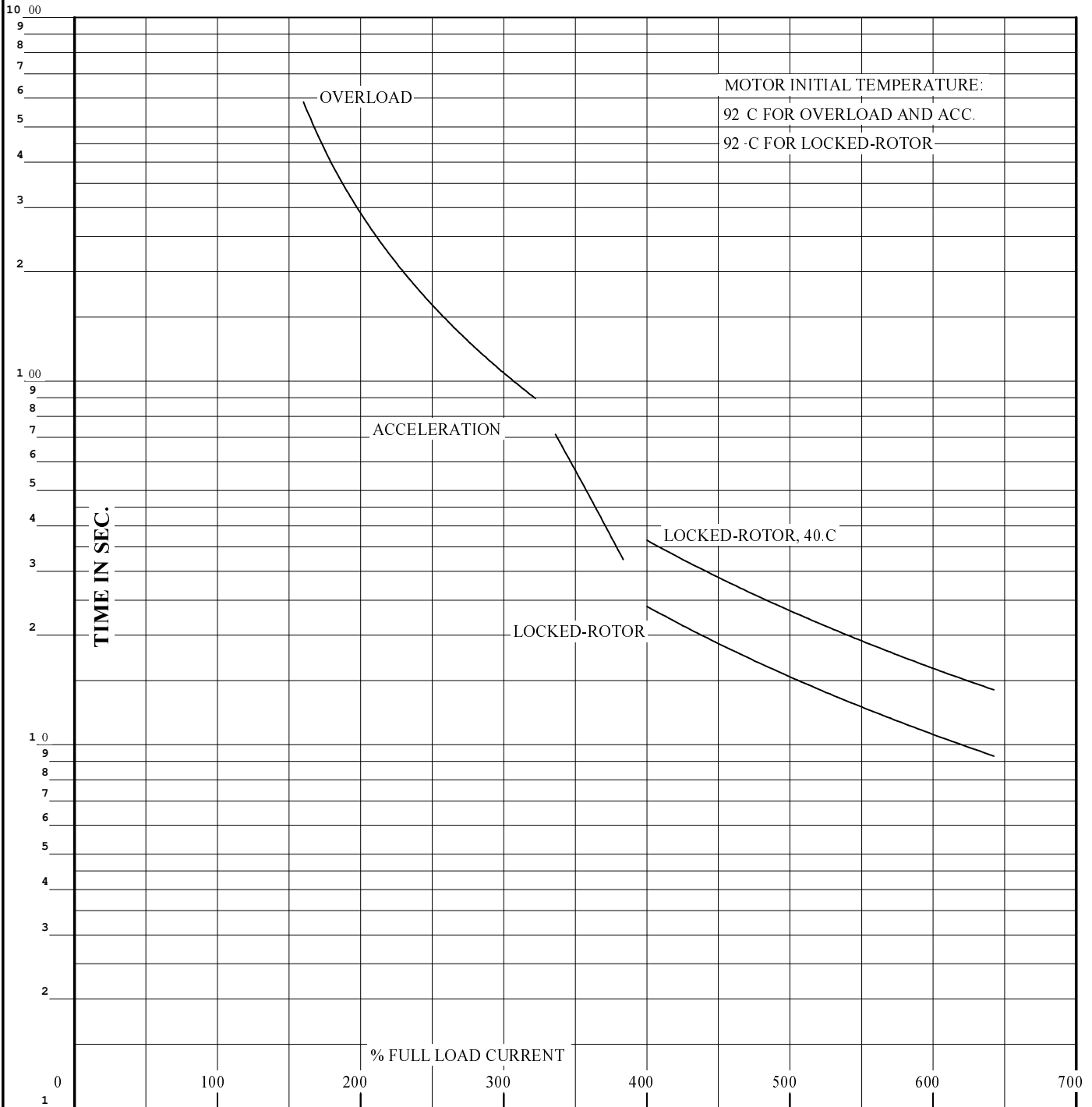
STATOR RES. @ 25 °C. 0477

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 595946

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 95.0%

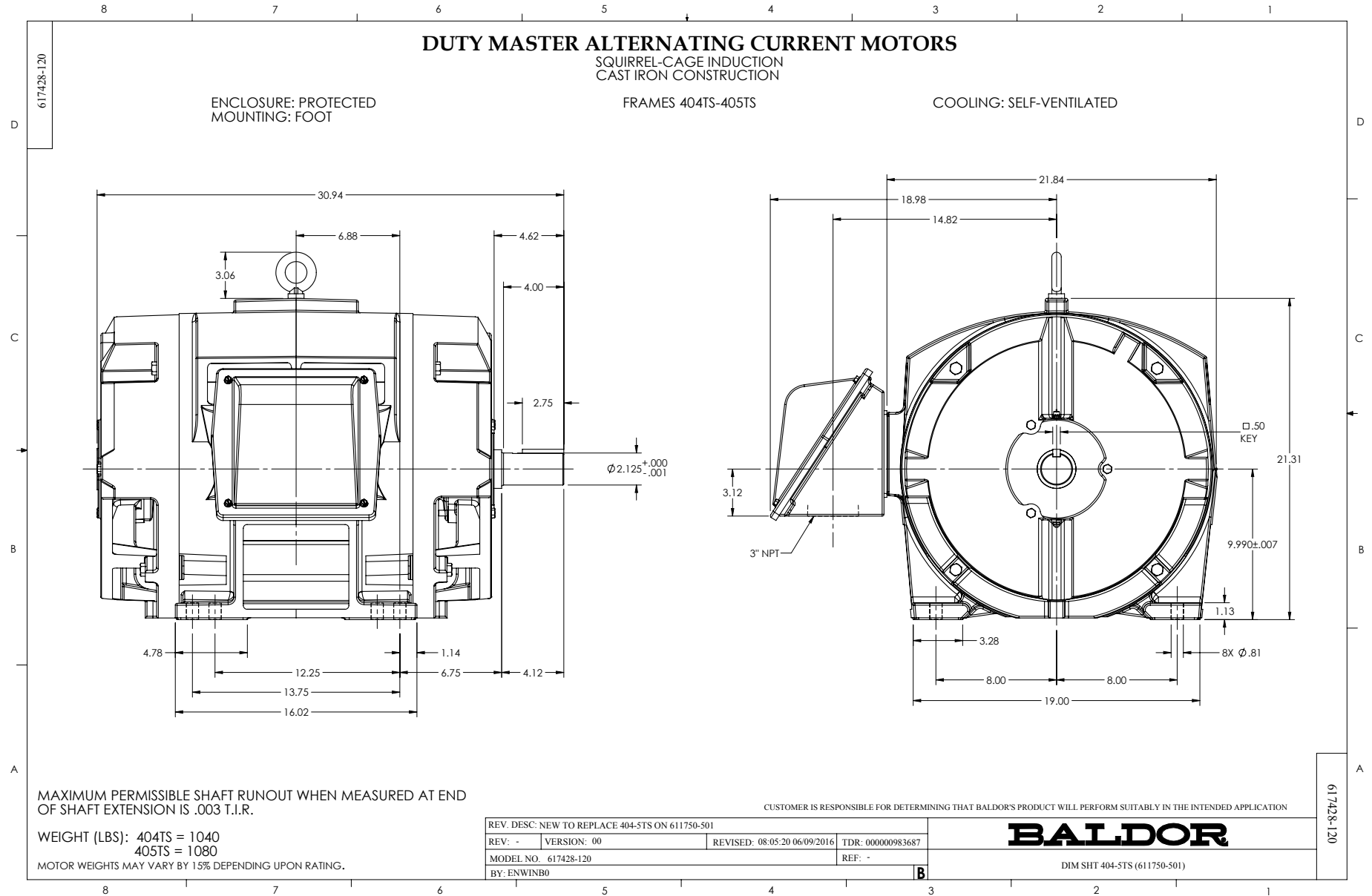
GUARANTEED MIN. EFF. 94.5%

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BALDOR

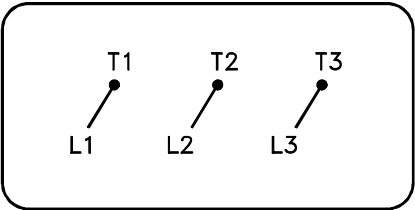
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**A-C MOTOR
PERFORMANCE
CURVES** A40WG0224-R002
ISSUE DATE 12/15/10



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