

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				

Parts List

Part number	Description	Quantity
SA209223	SA P40G295	1.000 ea
RA196485	RA P40G295	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
032018012AK	HHCS 1/4-20X1-1/2 PLTD.	4.000 ea
032018020DK	HHCS 1/2-13X2-1/2 PLTD. 963746	2.000 ea
032018026DK	HHCS 1/2-13X3-1/4L PLTD.	2.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089407082A	BRKT 400 089407081WCB	1.000 ea
405851012AF	SPACE	4.000 ea
410700004F	WSHR	1.000 ea
702609001A	BAFFL 400 SUB PAINT	1.000 ea
702609001A	BAFFL 400 SUB PAINT	1.000 ea
405851012AF	SPACE	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089407082A	BRKT 400 089407081WCB	1.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 ea
032018026DK	HHCS 1/2-13X3-1/4L PLTD.	2.000 ea
032018020DK	HHCS 1/2-13X2-1/2 PLTD. 963746	2.000 ea
032018012AK	HHCS 1/4-20X1-1/2 PLTD.	4.000 ea
004824015A	GREASE POLYREX EM	1.000 lb
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea

035000001A	ALFTG 1/8" 1610-BL	1.000 ea
048897010DG	PLUG,ODE BRKT - 360	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
065776000V	GASKET, C/B 5.75 SQ	1.000 ea
067053000B	GASK 320-400	1.000 ea
076708000BB	CONDUIT BOX-360	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
034180022GA	KEY 1/2X1/2X2-3/4 L	1.000 ea
PK5004A02	WOOD BASE 40X32 WITH STACKED 2X4 RUNNER	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 ga
421948051	LABEL, MYLAR	1.000 ea
N424002603DBA	LEAD SET 2-1 AWG 6-DB 400 FR 60 IN	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

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 W. L. SMITH		A-C MOTOR PERFORMANCE DATA					
		CK. BY G. R. WEBB							
		APP. BY D. M. BYRD							
		DATE 03/05/02							
				A40WG0224-R002 ISSUE DATE 12/15/10					

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

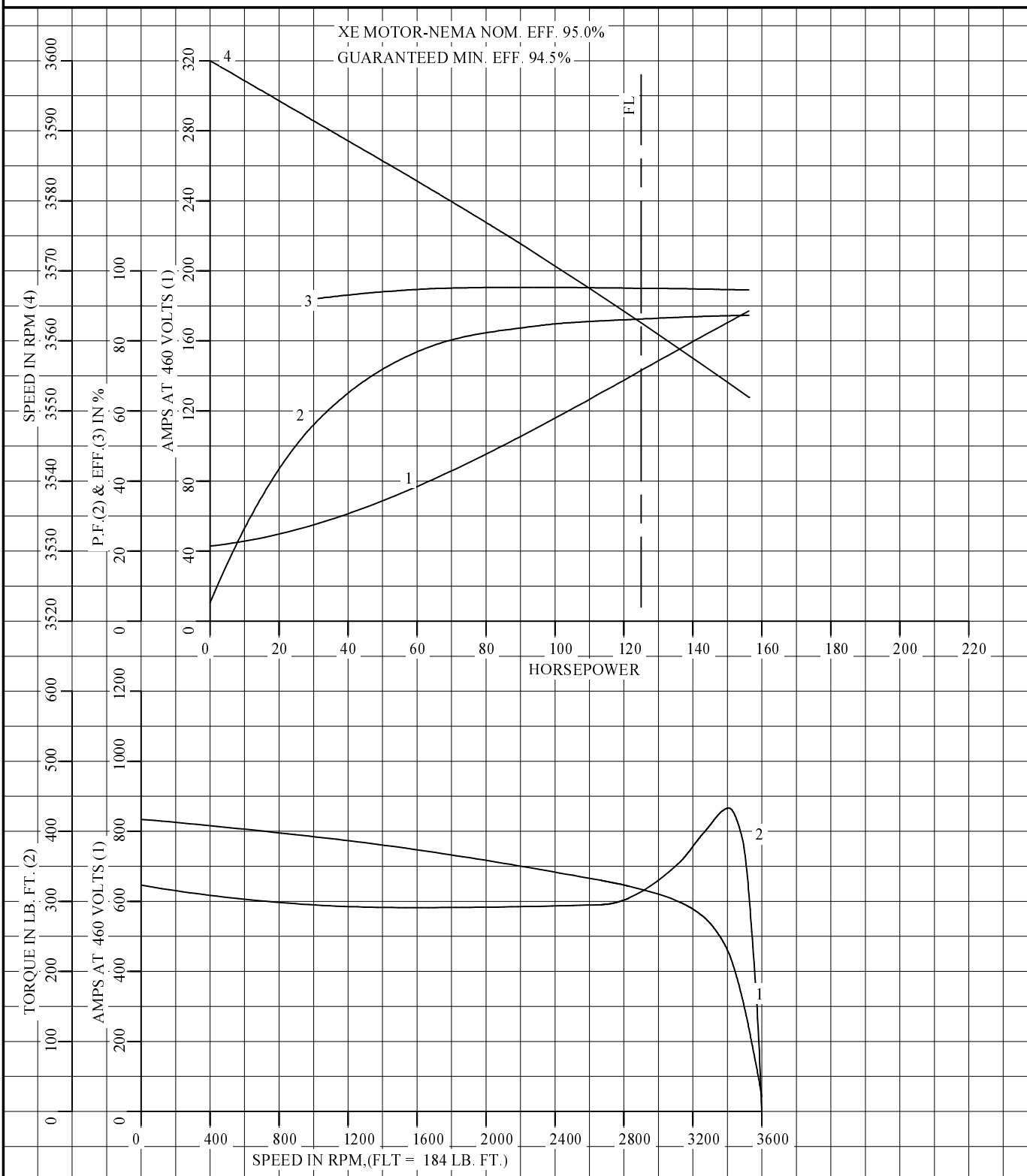
STATOR RES. @ 25 °C .0477

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 595946

OHMS (BETWEEN LINES)



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

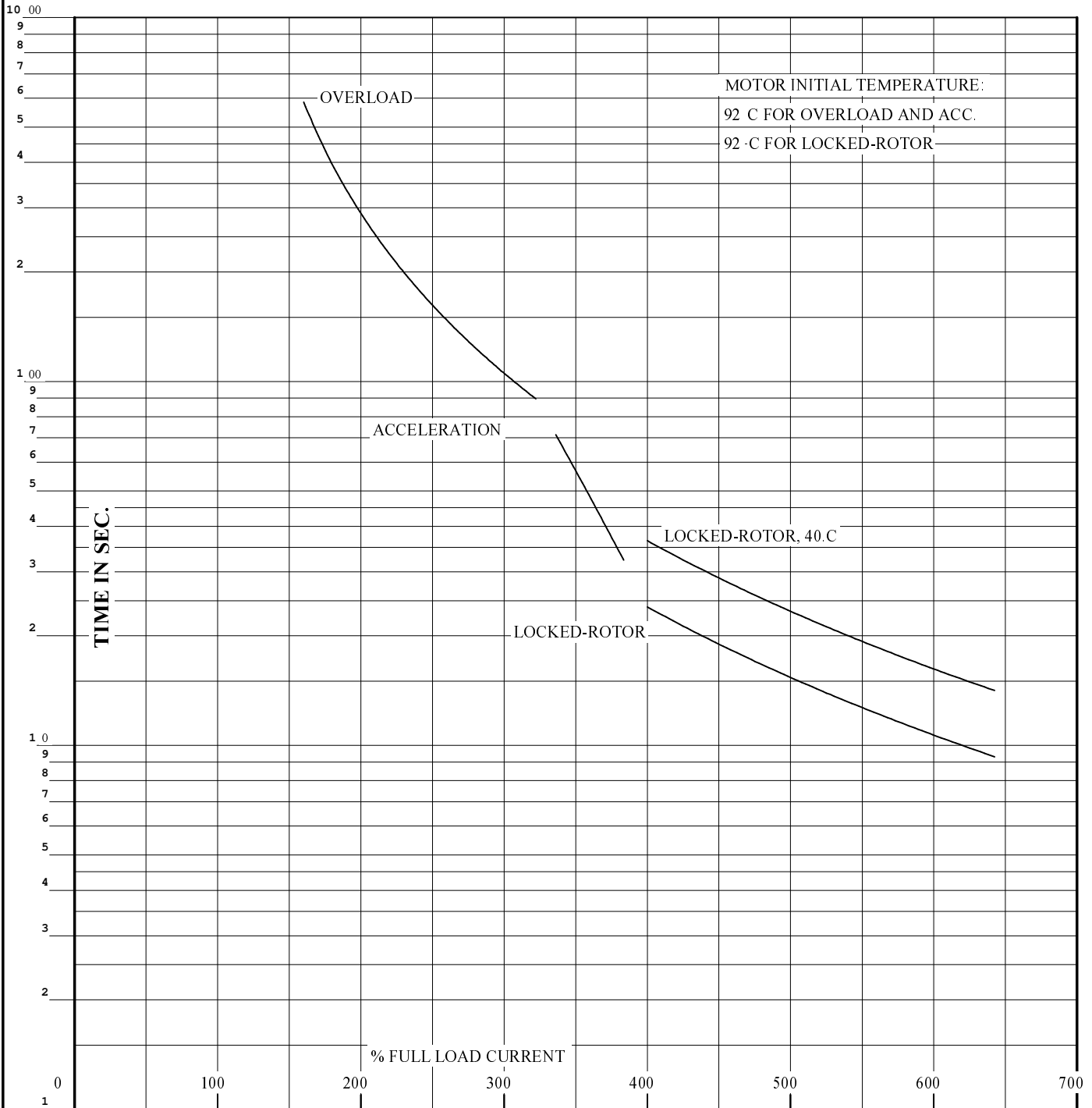
STATOR RES. @ 25 °C .0477

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%

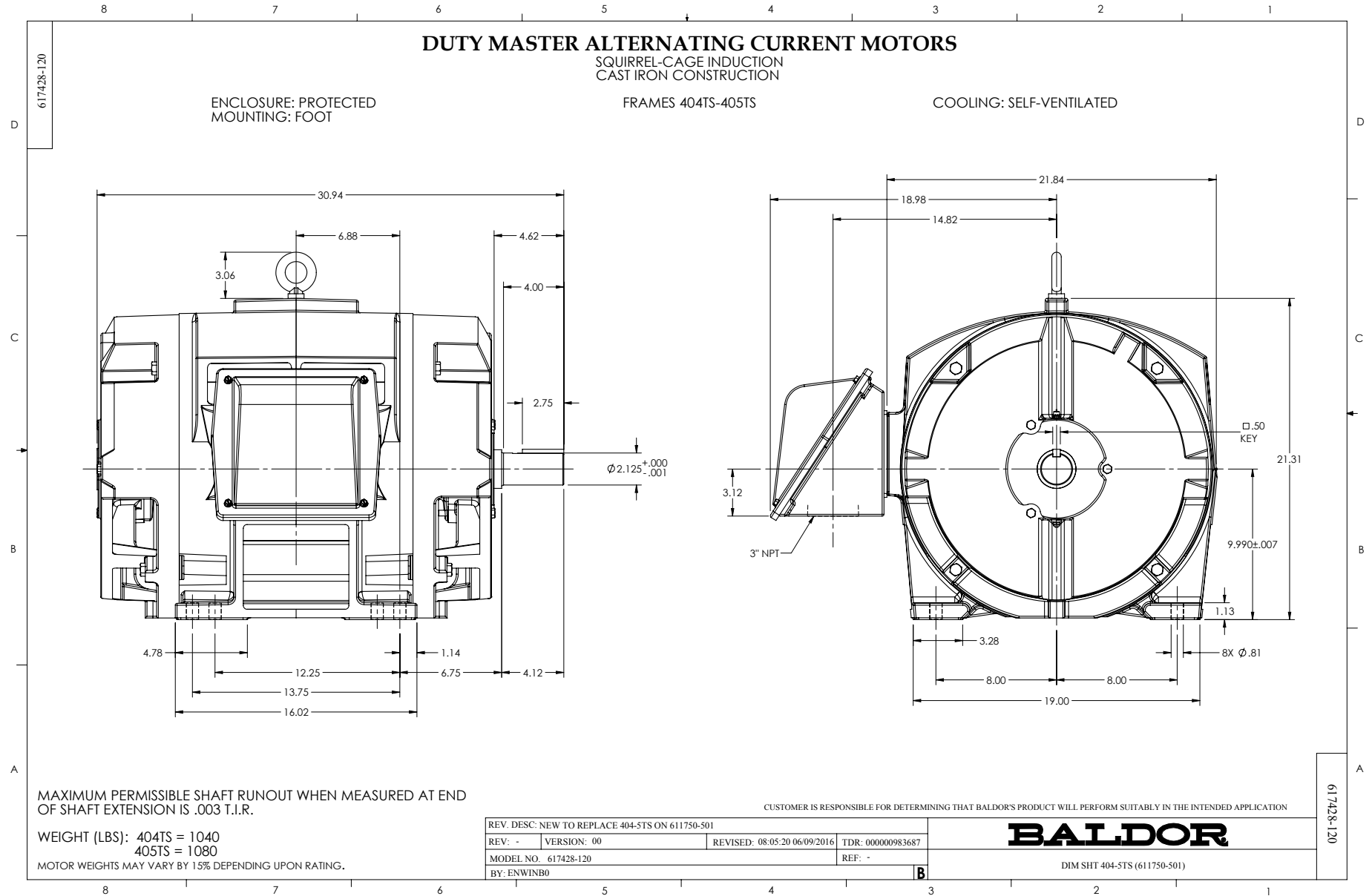
GUARANTEED MIN. EFF. 94.5%

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



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