

ABB BALDOR RELIANCE III

Customer information packet

EM2559T-4CI

125HP, 1785RPM, 3PH, 60HZ, 405T, ODP, FOOT,

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	405T
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	1800 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	141.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	141.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 4 AWG

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0248
Layout	617428-119
Eff. date	09-04-2024
CD Diagram	416820-036
Poles	04
Leads	3#4 (02 per group)
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4
Power Factor	87
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L															
SPEC NO.	P40G298			CAT.NO.		EM2559T-4CI					FRAME	405T			
HP	125	VOLTS		460		PHASE	3	DESIGN	B	TYPE	P				
RPM	1785	AMPS	141		HZ	60	AMB	40	SF	1.15					
DRIVE END BEARING	80BC03J30X			DUTY	CONT	INSUL.CLASS			F						
OPP D.E. BEARING	80BC03J30X			ENCL	DP	CODE	G								
SER.NO.				POWER FACTOR		87		NEMA-NOM-EFFICIENCY				95.4			
						MAX CORR KVAR		25.0		GUARANTEED EFFICIENCY		95.0			
						NEMA NOM/CSA QUOTED EFF									
						MOTOR WEIGHT									

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 1498 psecs-motorer

FRAME 405T

RPM 1785

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 125

AMPS 141

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PROT

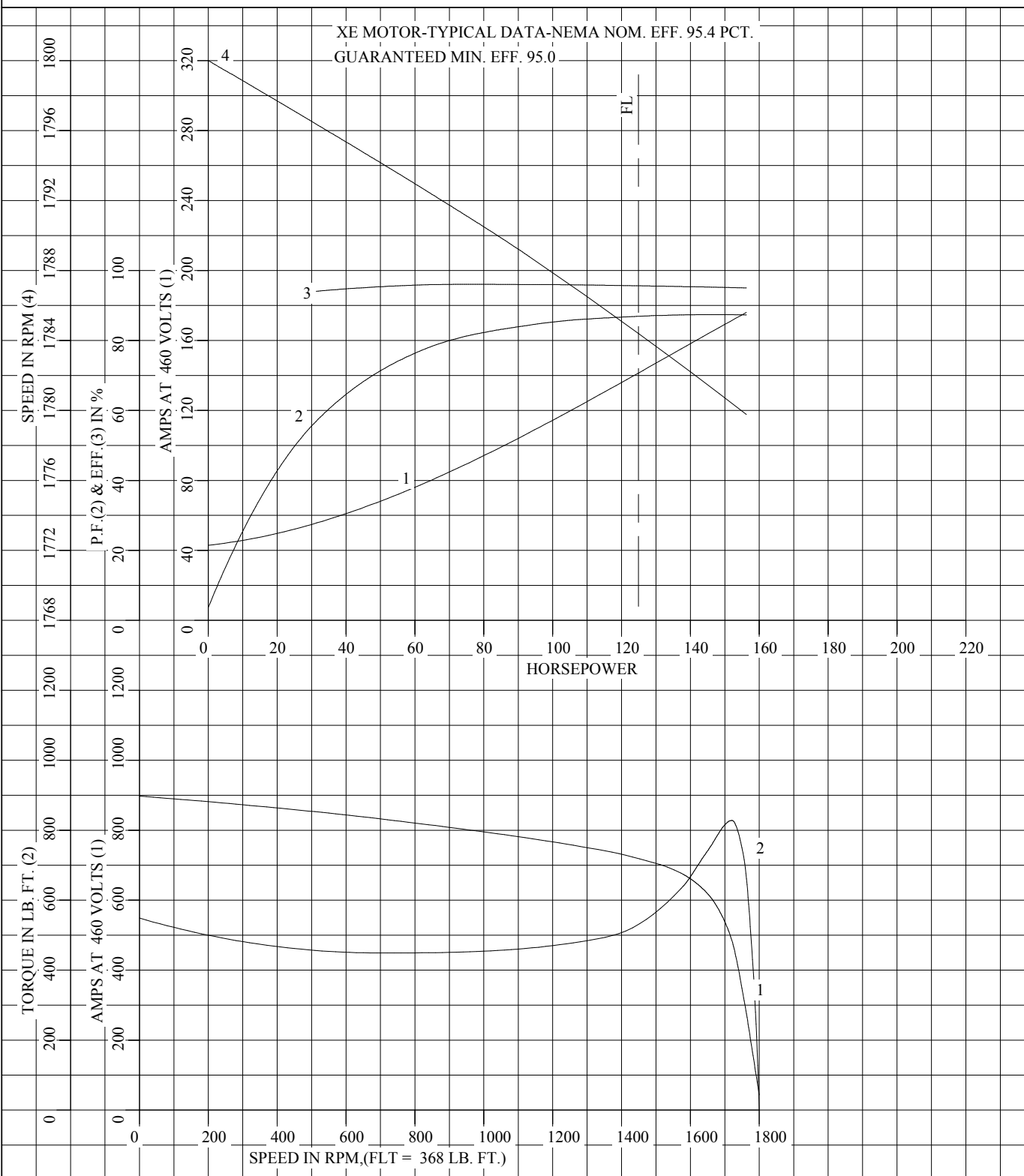
STATOR RES. @ 25 °C .0436

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 496084

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 P.B. GREENE
CK. BY K.W. KANOUFF
APP. BY K.W. KANOUFF
DATE 09/15/89

**A-C MOTOR
PERFORMANCE CURVES** A40WG0248-R002
ISSUE DATE 12/16/10

REL. S.O.

RPM 1785

S.F. 1.15

ROTOR 418142-31-ME

FRAME 405T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 125

AMPS 141

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PROT

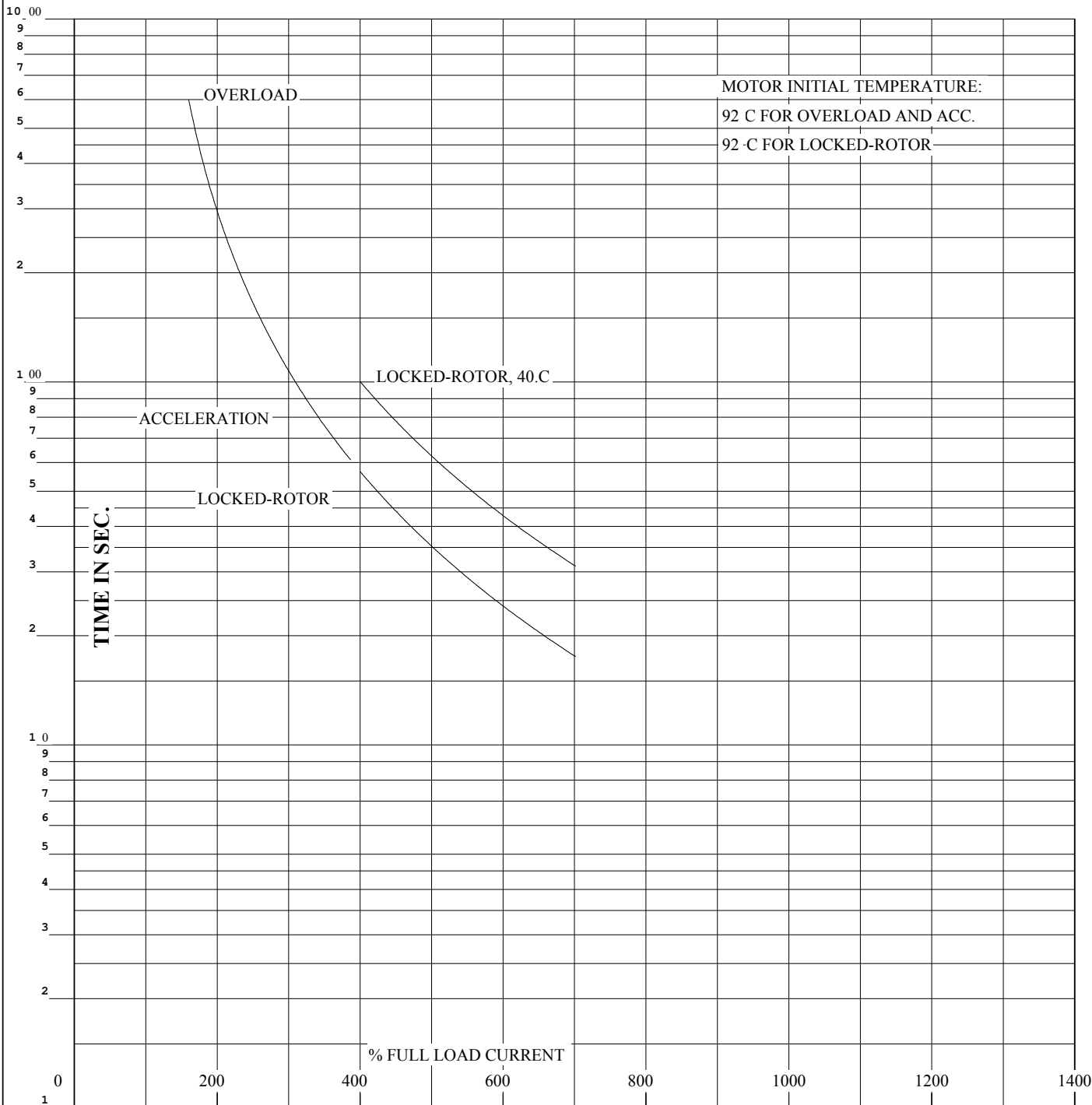
STATOR RES. @ 25 °C .0436

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 496084

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.4 PCT.

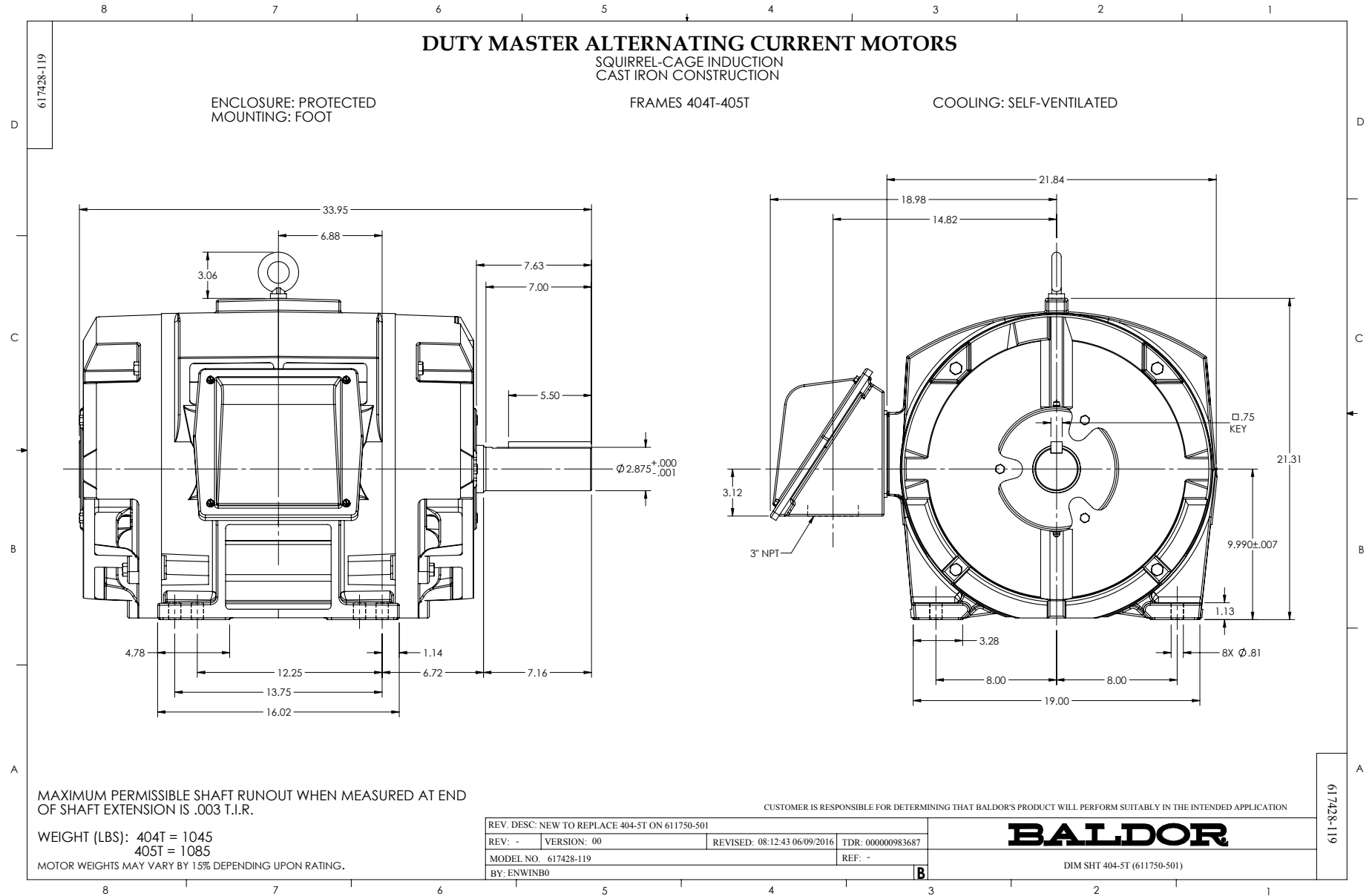
GUARANTEED MIN. EFF. 95.0

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

BALDOR

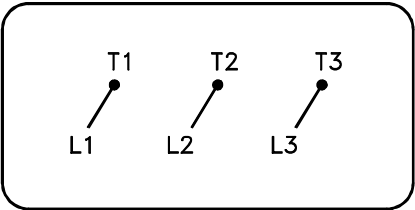
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**A-C MOTOR
PERFORMANCE A40WG0248-R002
CURVES** ISSUE DATE 12/16/10



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