

ABB BALDOR RELIANCE III

Customer information packet

EM2555T-CI

100HP, 1785RPM, 3PH, 60HZ, 404T, ODP, FOOT,

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	404T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 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	230.000 A @ 230.0 V 115.000 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	115.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0707
Layout	617428-119
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	04
Leads	3#2,6#4
Proprietary	False
Created date	02-03-2011

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A40052M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.00 IN
Power Factor	85
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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.	P40G297			CAT.NO.		EM2555T-CI				FRAME		404T				
HP	100	VOLTS		230/460		PHASE		3	DESIGN		B	TYPE		P		
RPM	1785	AMPS		230/115		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				85		NEMA-NOM-EFFICIENCY				95.4		
						MAX CORR KVAR		20.0		GUARANTEED EFFICIENCY		95.0				
						NEMA NOM/CSA QUOTED EFF										
						MOTOR WEIGHT										

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS					
	404T	100	P	3/60	1785	230/460					
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.					
230/115	CONT	40/B	1.15	B	G	PROT					
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)							
595948	418142-31-NE	---	---	.0132/.0531							
PERFORMANCE											
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY						
NO LOAD	0	40.3	1800	3.80	0						
1/4	25.0	48.7	1796	51.7	93.2						
2/4	50.0	66.7	1793	73.5	95.4						
3/4	74.9	89.5	1789	81.9	95.7						
4/4	99.9	115	1785	85.2	95.4						
5/4	125	143	1780	86.2	94.9						
SPEED TORQUE											
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES						
LOCKED ROTOR		0	145	427	725						
PULL UP		700	125	368	676						
BREAKDOWN		1720	233	685	401						
FULL LOAD		1785	100	294	115						
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE											
REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.4 PCT. GUARANTEED MIN. EFF. 95.0 PCT.											
		DR. BY D. M. BYRD		A-C MOTOR PERFORMANCE A40WG0707-R001 DATA ISSUE DATE 04/14/20							
		CK. BY W. L. SMITH									
		APP. BY D. M. BYRD									
		DATE 04/14/2004									

FRAME 404T

RPM 1785 VOLTS 230/460

NEMA DESIGN B

TEST S.O. ---

HP 100

AMPS 230/115

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PROT

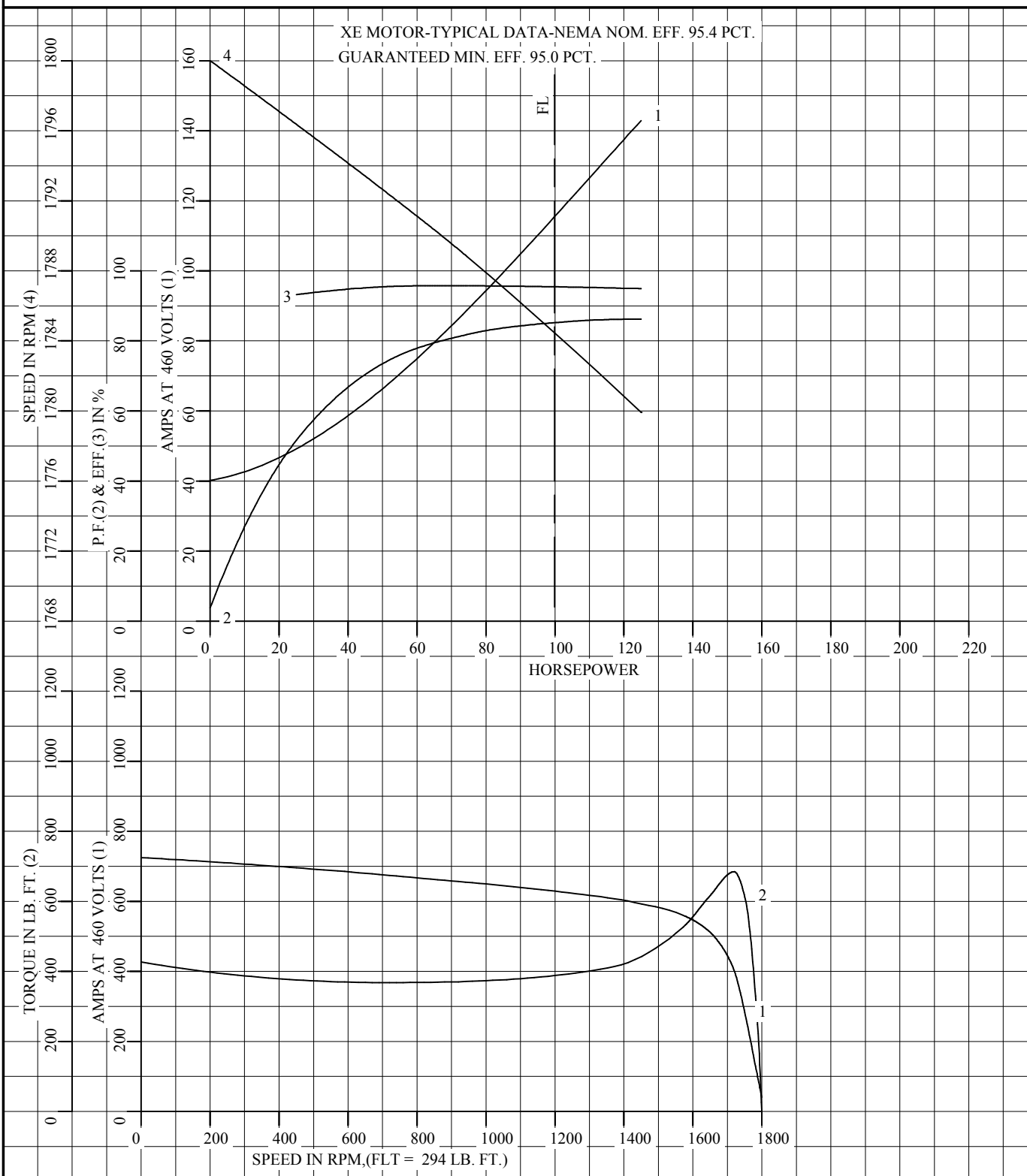
STATOR RES. @ 25 °C .0132/.0531

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 595948

OHMS (BETWEEN LINES)

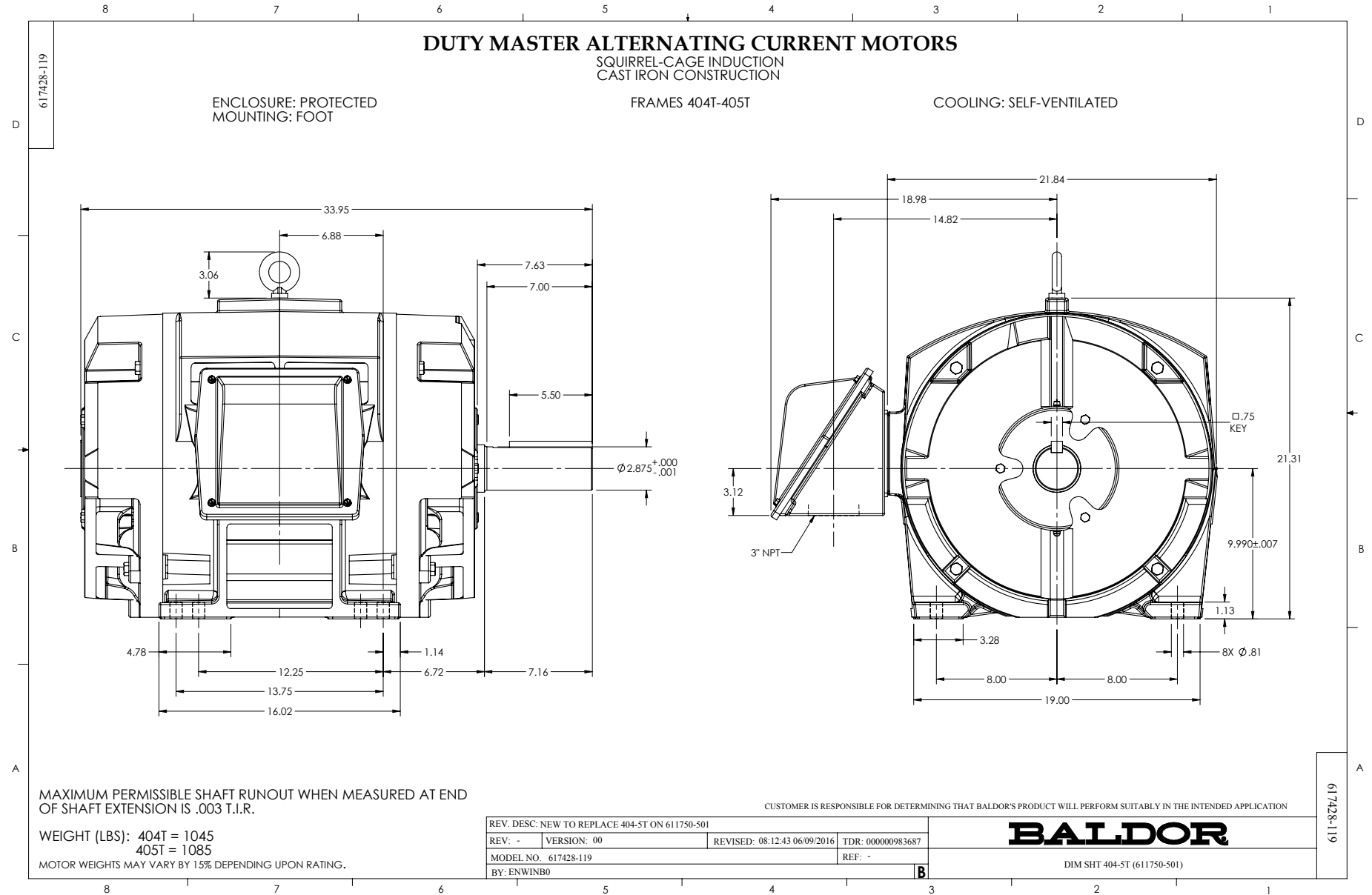


AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

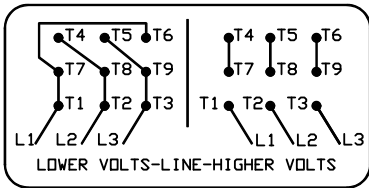
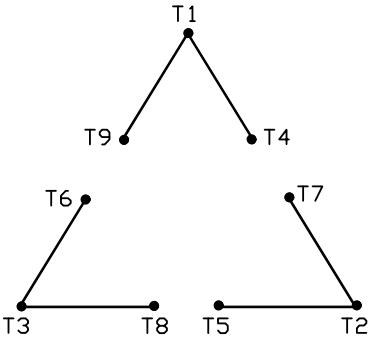
DR. BY D. M. BYRD
CK. BY W. L. SMITH
APP. BY D. M. BYRD
DATE 04/14/2004

**A-C MOTOR
PERFORMANCE
CURVES** A40WG0707-R001
ISSUE DATE 04/14/2004



416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -		



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1