

ABB BALDOR RELIANCE III

Customer information packet

EM2548T-4CI

60HP, 1185RPM, 3PH, 60HZ, 404T, M400MAG, OPEN,

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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	70.400 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	70.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Standards	NEMA

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0475
Layout	617428-118
Eff. date	04-05-2024
CD Diagram	416820-008
Poles	06
Leads	6#6
Proprietary	False
Created date	10-19-2010

Motor Type	A40052M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.95 IN
Power Factor	84
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	1185 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2381L											
SPEC NO.	P40G4411	CAT.NO.	EM2548T-4CI						FRAME	404T	
HP	60	PHASE	3	DESIGN	B	TYPE	P				
RPM	1185	HZ	60	AMB	40	SF		1.15			
VOLTS	460	DUTY	CONT			INSUL.CLASS	F				
AMPS	70.4			ENCL	DP	CODE	G				
DRIVE END BEARING	80BC03J30X	NEMA-NOM-EFFICIENCY				95					
OPP D.E. BEARING	80BC03J30X										
SER.NO.											
									MOTOR WEIGHT		

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
	404T	60	P	3/60	1185	460			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
70.4	CONT	40/F	1.15	B	G	PROT			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)					
595867	418142-71-DE	---	---	.115					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	26.0	1200	4.46	0				
1/4	15.0	30.9	1197	49.7	91.6				
2/4	30.0	41.5	1193	71.7	94.4				
3/4	45.0	55.0	1190	80.7	94.8				
4/4	60.0	70.4	1186	84.4	94.6				
5/4	75.0	87.3	1182	85.6	94.0				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	156	415	425				
PULL UP		400	149	395	400				
BREAKDOWN		1130	241	640	239				
FULL LOAD		1186	100	266	70.4				
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. 94.5%, GUAR. MIN. EFF. 94.1%									
		DR. BY J.J.HARRISON		A-C MOTOR PERFORMANCE A40WG0475-R001 DATA					
		CK. BY W.L.SMITH							
		APP. BY W.L.SMITH							
		DATE 07/21/09							
				ISSUE DATE 12/15/10					

FRAME 404T

RPM 1185
VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 70.4

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PROT

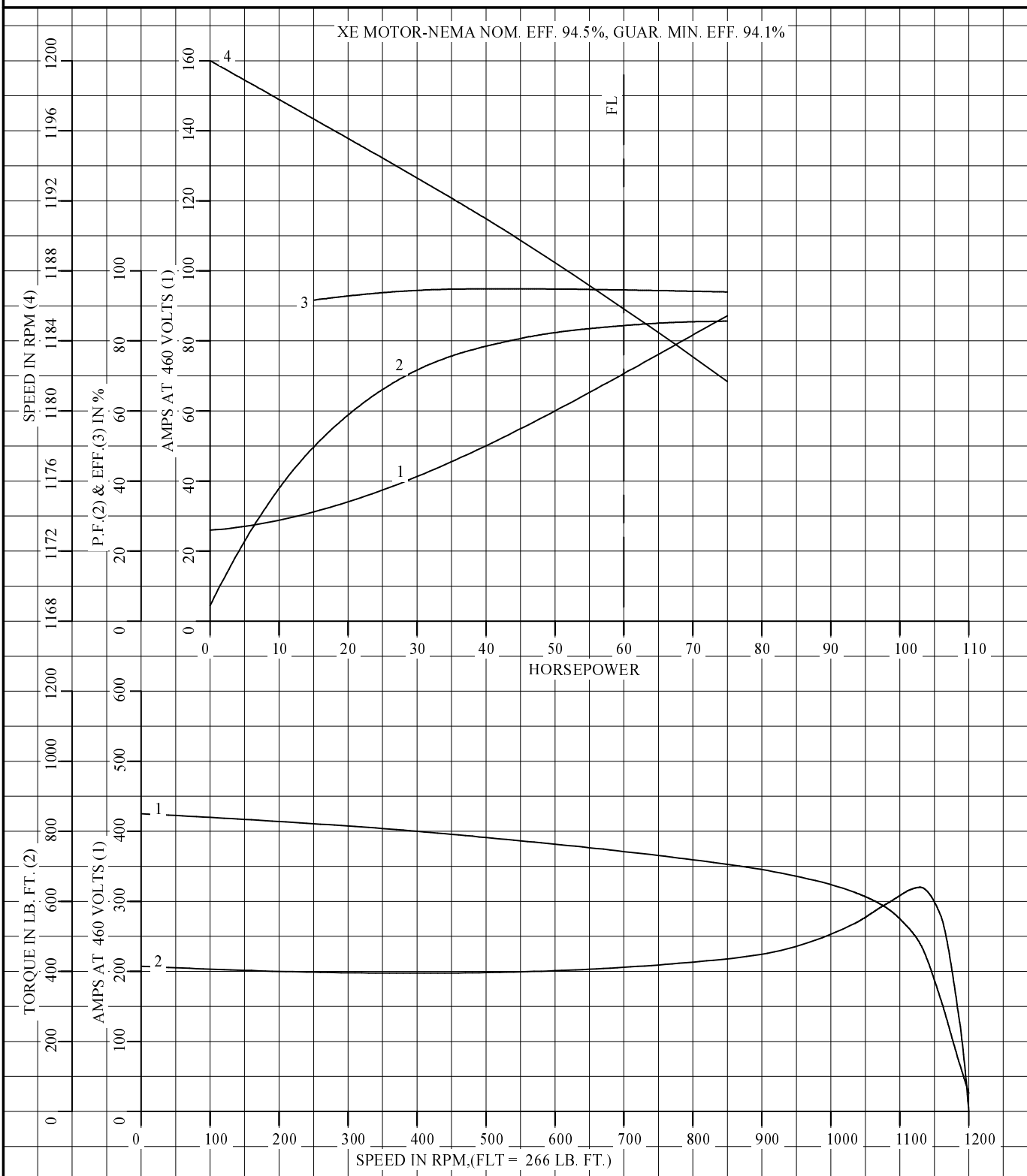
STATOR RES. @ 25 °C .115

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 595867

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 J.J. HARRISON
CK. BY W.L. SMITH
APP. BY W.L. SMITH
DATE 07/21/09

**A-C MOTOR
PERFORMANCE
CURVES** A40WG0475-R001
ISSUE DATE 12/15/10

REL. S.O.

RPM 1185

S.F. 1.15

ROTOR 418142-71-DE

FRAME 404T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 70.4

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PROT

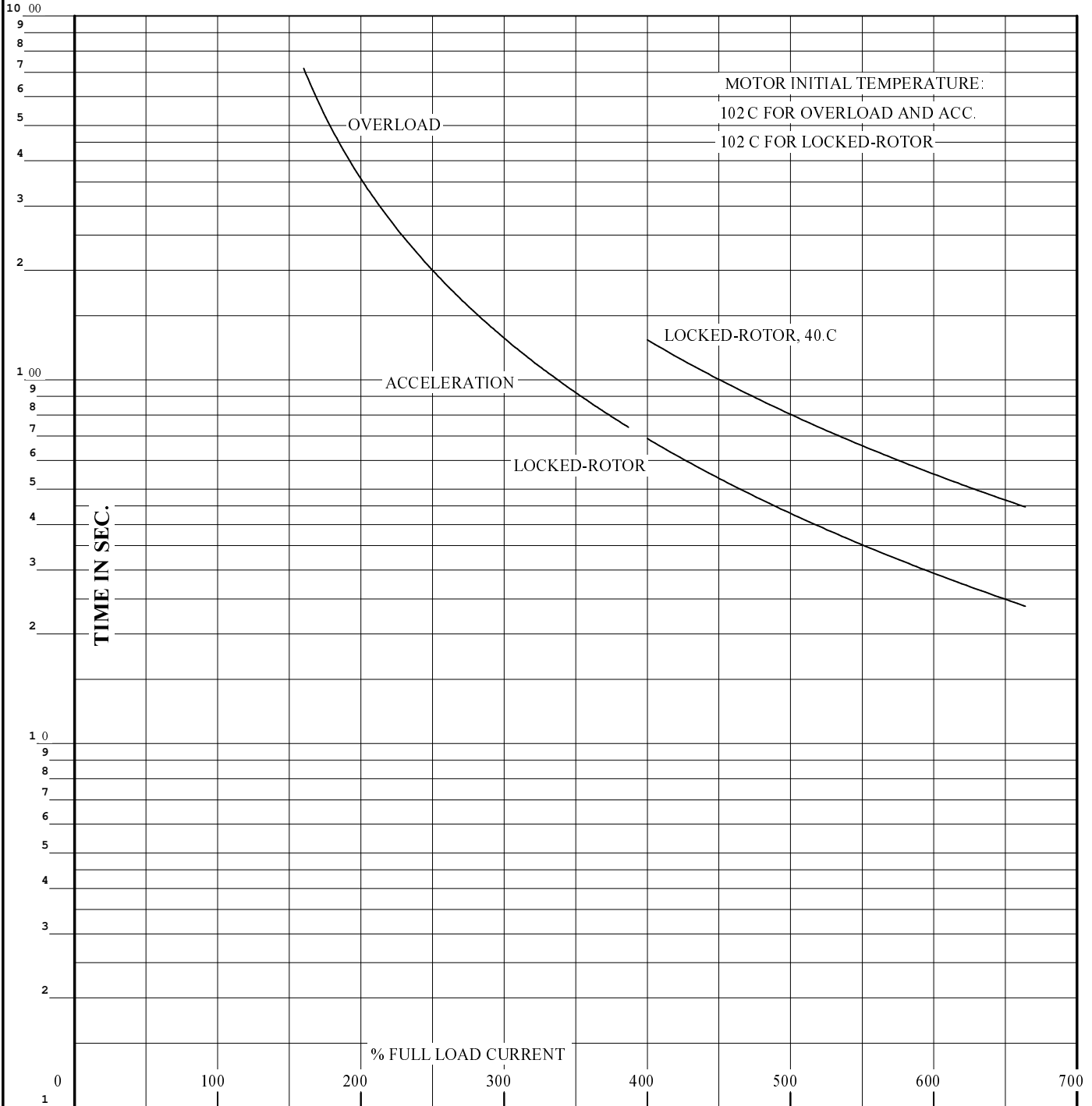
STATOR RES. @ 25 °C .115

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 595867

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

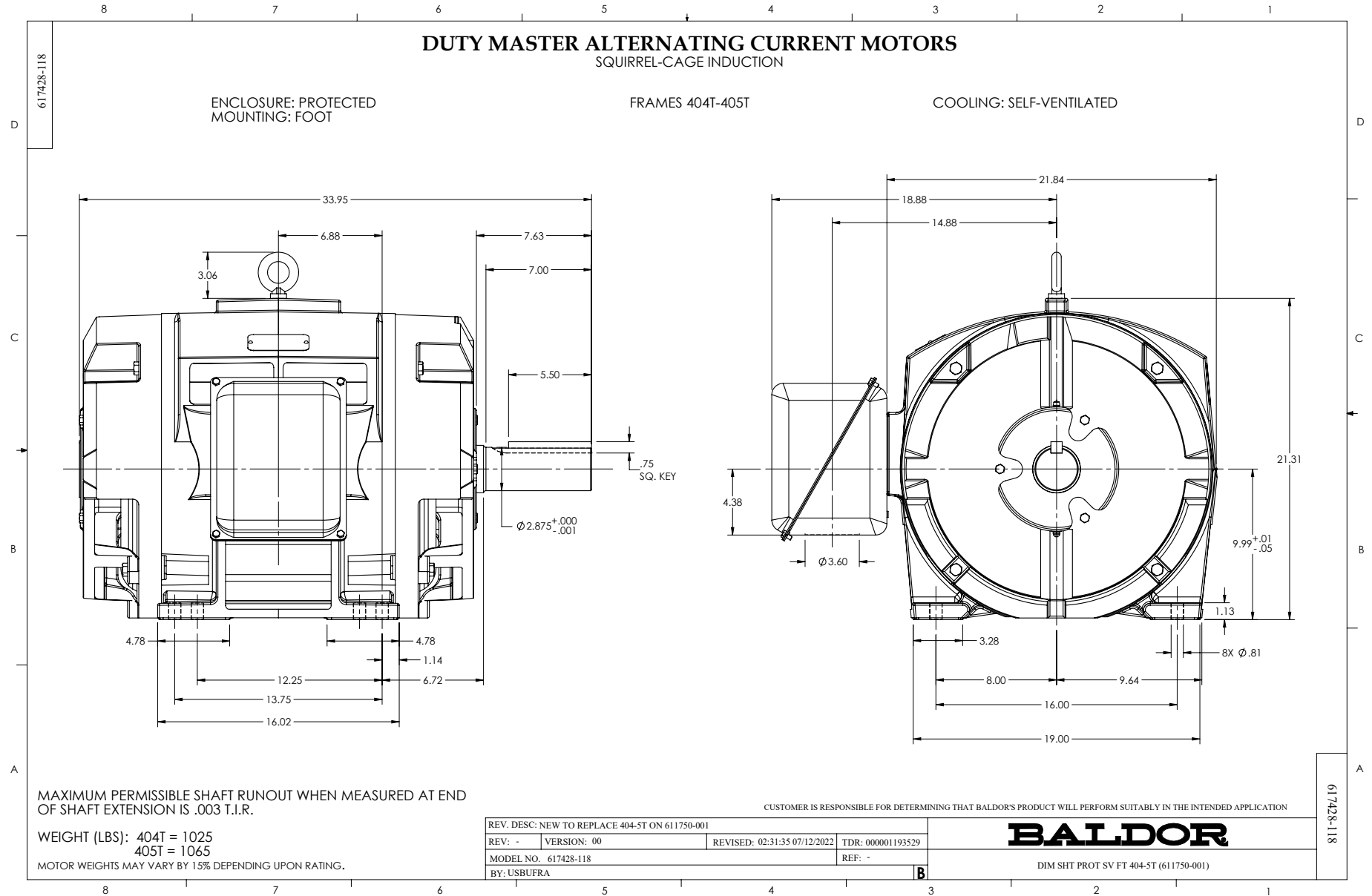
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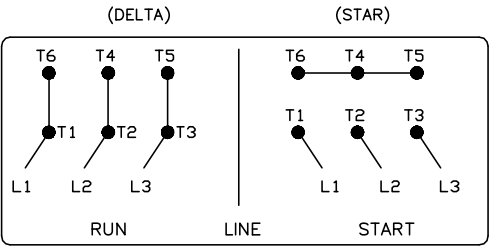
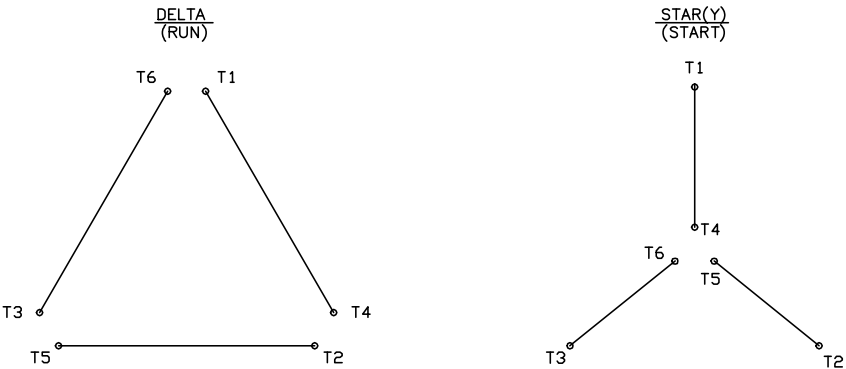
**A-C MOTOR
PERFORMANCE CURVES**
A40WG0475-R001
ISSUE DATE 12/15/10



416820-008

A-C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START – DELTA RUN



(N. P. 1767-DC)

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 000000847713
FILE: \RAG\00001\808	REVISED: 10: 41: 26 04/08/2014	BY: RAGJSS1
MTL: —		

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN
SH 1 of 1

416820-008