

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	

Parts List

Part number	Description	Quantity
SA206547	SA P40G4411	1.000 ea
RA193814	RA P40G4411	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
NP2381L	SS, SUPER-E, CURUS EEV, CC	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
004824015A	GREASE POLYREX EM	0.884 lb
032018010AK	HHCS 1/4-20X1-1/4L 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
032018030CK	HHCS 3/8-16X3-3/4 PLATED	3.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
089407052A	BRKT 400 089407052WCB	1.000 ea
405851012AD	SPACE	4.000 ea
410700000DA	WAVY SPRING WASHER	1.000 ea
702609001A	BAFFL 400 SUB PAINT	1.000 ea
032018010AK	HHCS 1/4-20X1-1/4L 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
032018030CK	HHCS 3/8-16X3-3/4 PLATED	3.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
089407052A	BRKT 400 089407052WCB	1.000 ea
405851012AD	SPACE	4.000 ea
702609001A	BAFFL 400 SUB PAINT	1.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea

048897010DH	BUSH - 400	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
MG1025Y17	WILKOFEST, 789.701, SUPER E PEARL GOLD	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
034180044JA	KEY 3/4X3/4X5-1/2 L	1.000 ea
421948044	LABEL, MYLAR	1.000 ea
PK5004A02	WOOD BASE 40X32 WITH STACKED 2X4 RUNNER	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea

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 <u>J.J. HARRISON</u> CK. BY <u>W.L. SMITH</u> APP. BY <u>W.L. SMITH</u> DATE <u>07/21/09</u>		A-C MOTOR PERFORMANCE DATA A40WG0475-R001 ISSUE DATE 12/15/10		

FRAME 404T

RPM 1185

VOLTS 460

NEMA DESIGN B

HP 60

AMPS 70.4

CODE LETTER G

TEST S.O. TYPICAL DATA

TYPE P

DUTY CONT

ENCLOSURE PROT

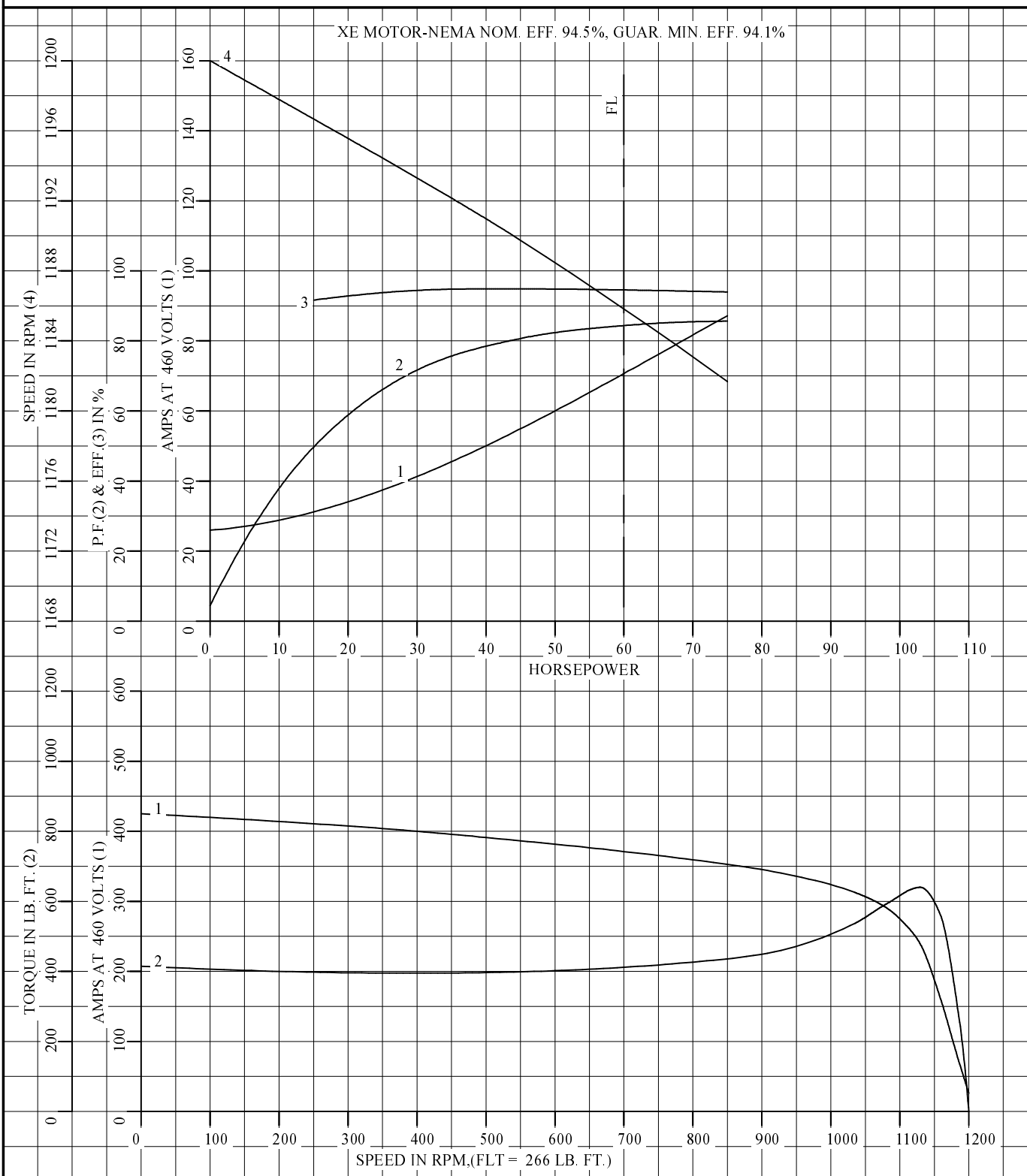
TEST DATE ---

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 595867

STATOR RES. @ 25 °C .115
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

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VOLTS 460

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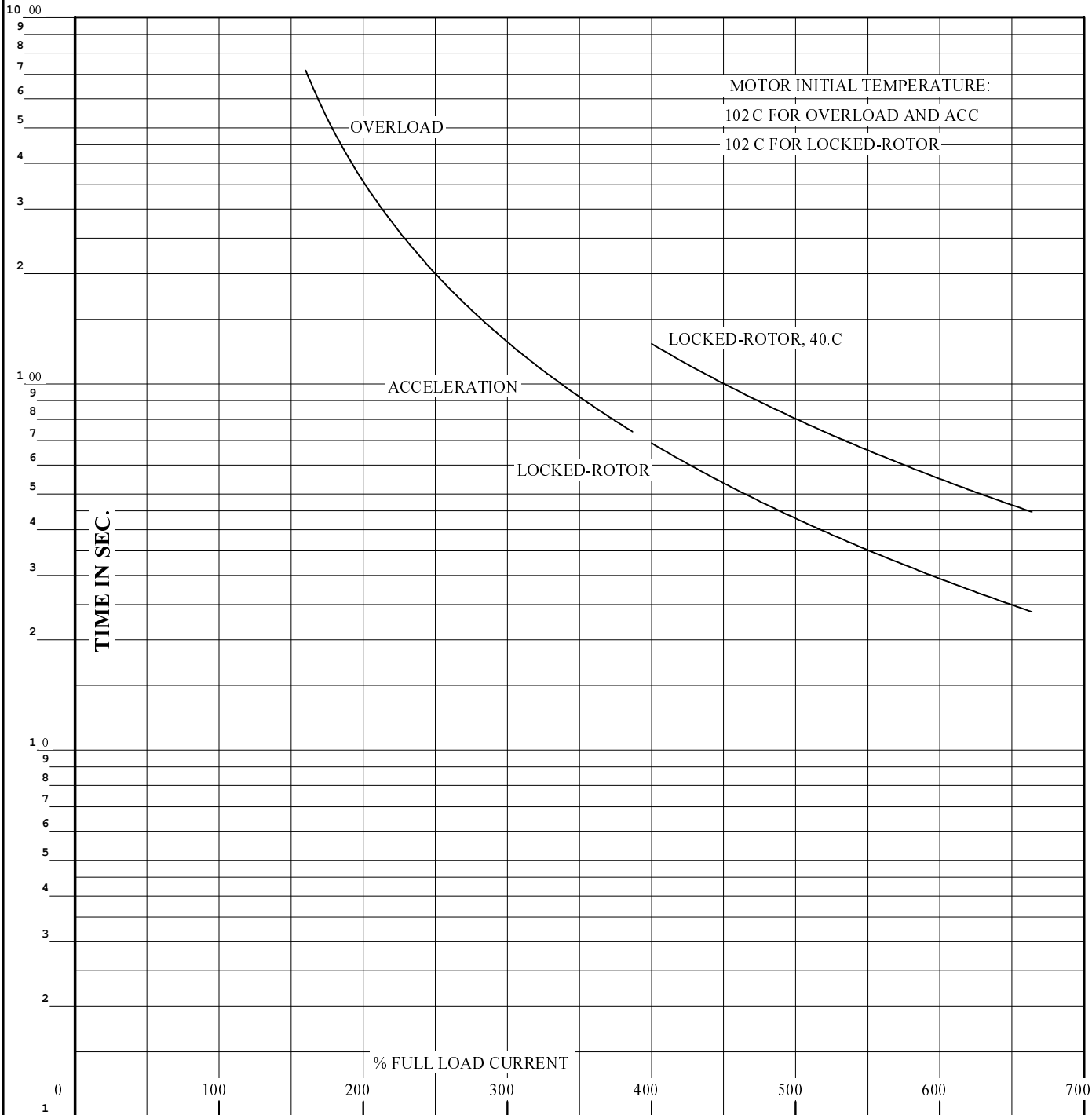
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PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 595867

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

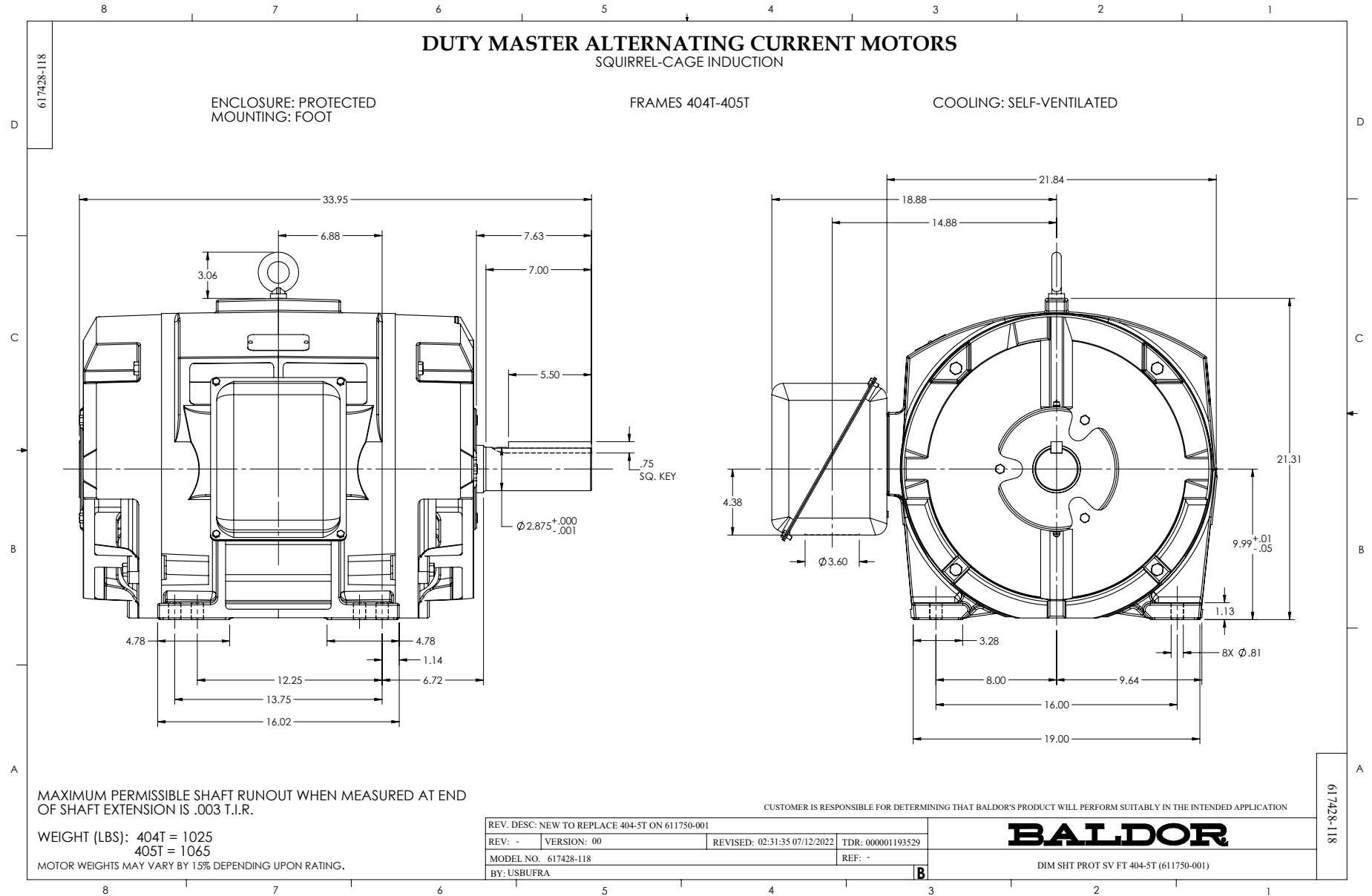
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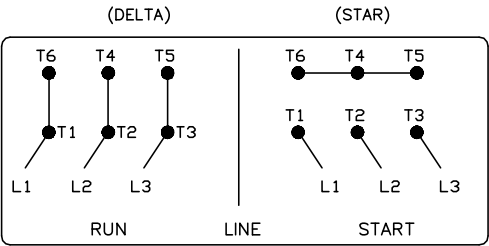
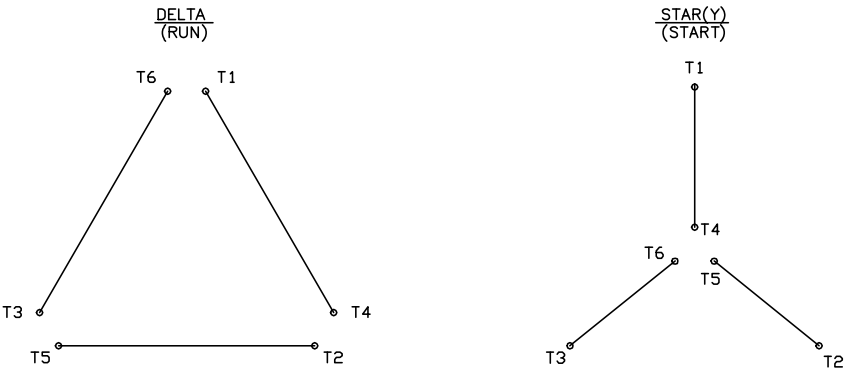
**A-C MOTOR
PERFORMANCE CURVES** A40WG0475-R001
ISSUE DATE 12/15/10



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