

ABB BALDOR RELIANCE III

Customer information packet

EM2552T-4

75HP, 1185RPM, 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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	86.900 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	86.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 6 AWG

Part Detail

Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0466
Layout	617428-118
Eff. date	12-19-2025
CD Diagram	416820-008
Poles	06
Leads	6#6
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.95 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	1185 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L															
SPEC NO.	P40G302			CAT.NO.		EM2552T-4					FRAME	405T			
HP	75	VOLTS		460		PHASE	3	DESIGN		B	TYPE	P			
RPM	1185	AMPS	86.9		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		
					MAX CORR KVAR		15.0		GUARANTEED EFFICIENCY		94.5				
					NEMA NOM/CSA QUOTED EFF										
					MOTOR WEIGHT										

Parts List

Part number	Description	Quantity
SA209231	SA P40G302	1.000 ea
RA196493	RA P40G302	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
421948044	LABEL, MYLAR	1.000 ea
004824015A	GREASE POLYREX EM	0.884 lb
032018005AK	HHCS 1/4-20X5/8 PLATED	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
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089407052A	BRKT 400 089407052WCB	1.000 ea
702609001A	BAFFL 400 SUB PAINT	1.000 ea
089407052A	BRKT 400 089407052WCB	1.000 ea
410700000DA	WAVY SPRING WASHER	1.000 ea
702609001A	BAFFL 400 SUB PAINT	1.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	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
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea

048897010DH	BUSH - 400	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
077176000L	C/BOX, PAINTED 440	1.000 ea
077176001A	CBOX Cover 360-400	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025Y17	WILKOFAST, 789.701, SUPER E PEARL GOLD	0.250 ga
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
034180044JA	KEY 3/4X3/4X5-1/2 L	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea

Accessories

Part number	Description	Multiplier
089407053B	C-FACE BRKT 400 089407053WCA	P1
089407054B	D-FLANGE BRKT 400 089407054WCA, D-FLG	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	75	P	3/60	1185	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
86.9	CONT	40/F	1.15	B	G	ODP
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
496415	418142-71-EE	---	---	.0860		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	31.0	1200	4.11	0	
1/4	18.8	37.2	1197	51.1	92.5	
2/4	37.5	50.7	1194	73.0	95.0	
3/4	56.2	67.7	1190	81.6	95.3	
4/4	75.0	86.9	1187	85.1	95.0	
5/4	93.8	108	1183	86.2	94.4	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	165	549	541		
PULL UP	400	156	519	509		
BREAKDOWN	1132	243	808	302		
FULL LOAD	1187	100	332	86.9		
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 %, GUAR. MIN. EFF. 94.5%						
		DR. BY <u>J.J.HARRISON</u> CK. BY <u>W.L.SMITH</u> APP. BY <u>W.L.SMITH</u> DATE <u>09/08/09</u>		A-C MOTOR PERFORMANCE DATA		
				A40WG0466-R001 ISSUE DATE 12/15/10		

FRAME 405T

RPM 1185

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 86.9

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE ODP

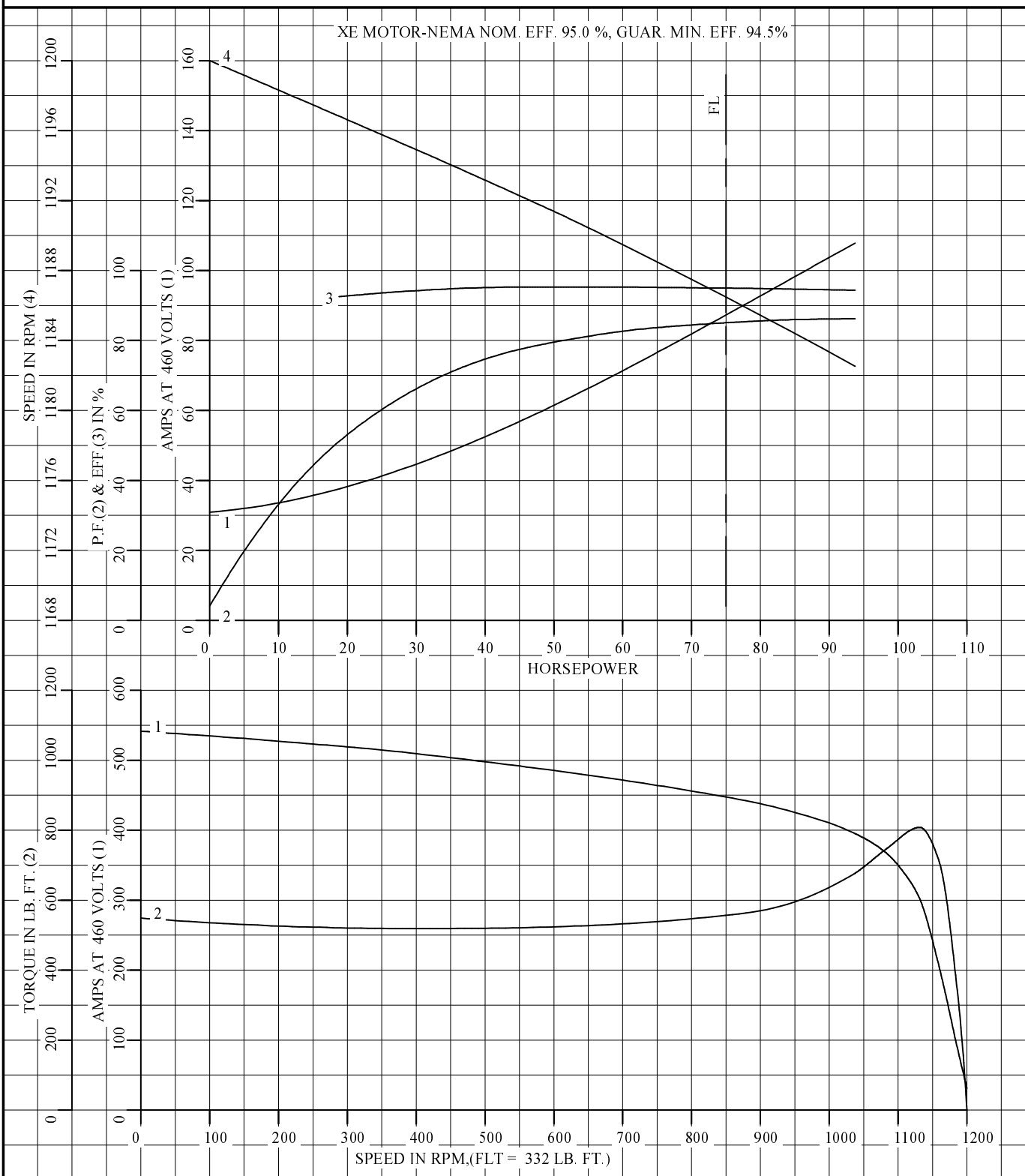
STATOR RES. @ 25 °C .0860

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 496415

OHMS (BETWEEN LINES)



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BALDOR

DR. BY J.J. HARRISON
CK. BY W.L. SMITH
APP. BY W.L. SMITH
DATE 09/08/09

**A-C MOTOR
PERFORMANCE
CURVES** A40WG0466-R001
ISSUE DATE 12/15/10

REL. S.O.

RPM 1185

S.F. 1.15

ROTOR 418142-71-EE

FRAME 405T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 86.9

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE ODP

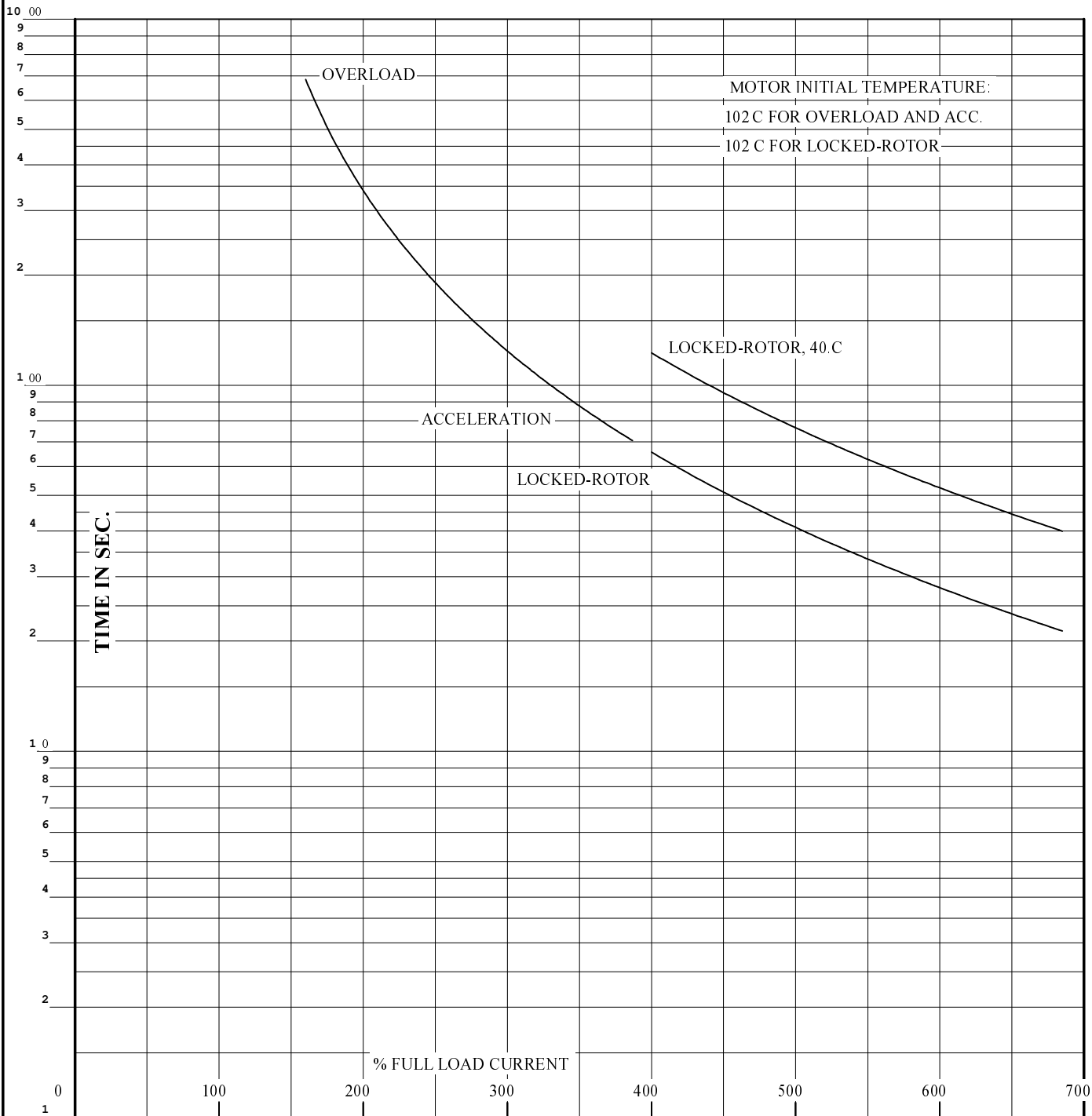
STATOR RES. @ 25 °C .0860

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 496415

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

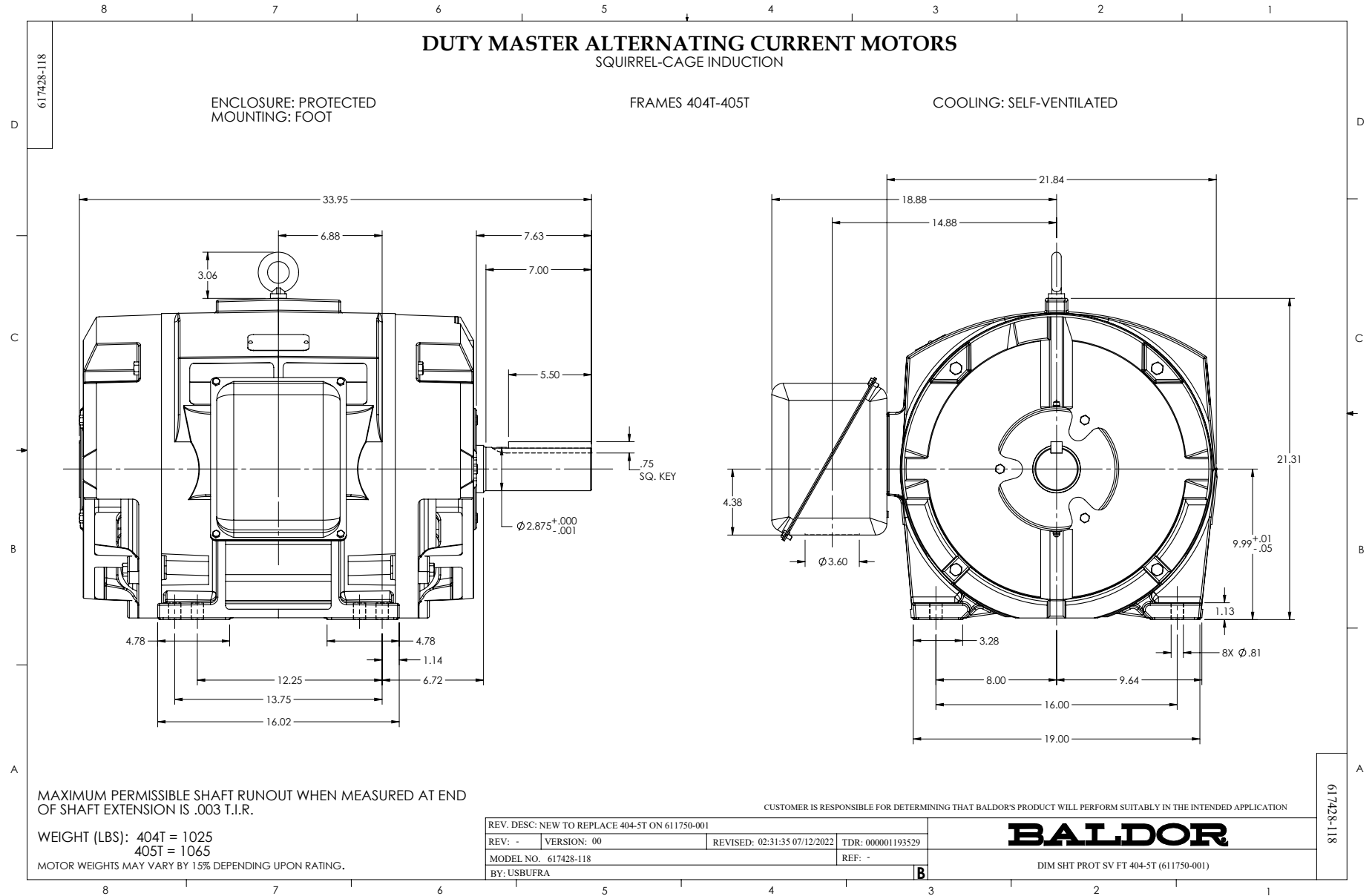
XE MOTOR-NEMA NOM. EFF. 95.0 %, GUAR. MIN. EFF. 94.5%

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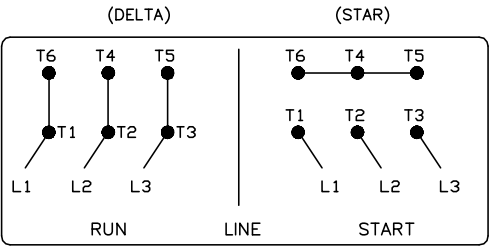
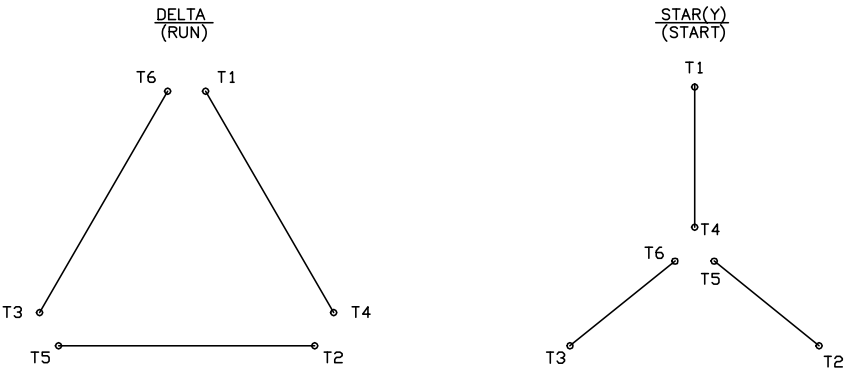
**A-C MOTOR
PERFORMANCE CURVES** A40WG0466-R001
ISSUE DATE 12/15/10



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

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