

ABB BALDOR RELIANCE III

Customer information packet

DRX40664T

60HP, 1185RPM, 3PH, 60HZ, 404T, TEFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	TEFC
Frame	404T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	138.000 A @ 230.0 V 69.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	69.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0844
Layout	617433-608
Eff. date	10-22-2021
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	04-30-2019

IP Rating	NONE
KVA Code	G
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	38.22 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2496L	
MOBIL POLYREX EM	

000613006PC			
CLASS I GROUP	C D X	NO.	
CLASS II GROUP	X X X		
OPERATING TEMP CODE	T3C		

NP3140L

SPEC NO.	A40-7109-0844				CAT.NO.	DRX40664T					FRAME	404T
HP	60	VOLTS	230/460			PHASE	3	DESIGN	B	TYPE	P	
RPM	1185	AMPS	138/69			HZ	60	AMB	40	SF	1.00	
DRIVE END BEARING	80BC03J30X			DUTY	CONT	INSUL.CLASS			F			
OPP D.E. BEARING	80BC03J30X			ENCL	TEFC	CODE	G					
SF	1.15	WK2	37.1071	MAG CUR	39.8/19.9			RPM MAX	2700			
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90			NEMA-NOM-EFF	94.5			
	SUIT FOR 55C AMB AT 1.00 SF						IP55					
SER.NO.					MOTOR WEIGHT							

Parts List

Part number	Description	Quantity
SA369005	SA A40-7109-0844	1.000 ea
RA358544	RA A40-7109-0844	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
LB1073	ALUM XP CAUTION LABEL	1.000 ea
000613006PC	N/P U/L (REL QTY 500)	1.000 ea
NP3140L	INVERTER DUTY, SS, CC, CSA-C US, CSA EEV	1.000 ea
HW4506A02	BREATHING/DRAIN-EXP PROOF-.125-27 NPTF AI	2.000 ea
609158001E	SLGR - 400	1.000 ea
603284001Y	SLGR - 400	1.000 ea
089416503A	G400 STD BRKT MACHINING 6316 BE OR FE	1.000 ea
083198101A	G400 STD FAN COVER MACHINING	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
702618011RN	FAN 440 702618004T - 2.00 BORE 17.5 DIA	1.000 ea
004824015A	GREASE POLYREX EM	0.880 lb
032130022GB	HSHCS 7/8-9X2-3/4 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018030CK	HHCS 3/8-16X3-3/4 PLATED	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415045002B	SLGR	1.000 ea
410700000DA	WAVY SPRING WASHER	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034530056BB	P/NIP 1/4X7 SCHED 40	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
089416503A	G400 STD BRKT MACHINING 6316 BE OR FE	1.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea

415045002B	SLGR	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	3.000 ea
034530024AB	PNIPL 1/8X3L PLATED	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032130024GB	HSHCS 7/8-9NC X 3" LONG PLATED	4.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
16CB1001A01	CONDUIT BOX MACH GRP C MTRS 16CB1001	1.000 ea
16CB1501A01	CONDUIT BOX LID MACH.GRP C MTRS 16CB1501	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
034017018AB	5/8 MED LOCK WASHER ZP (034017018AF)	8.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
032130016EB	HSHCS 5/8-11X2 PLTD.	8.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	1.000 ea
034017016AB	LCKW 1/2" PLATED	1.000 ea
032130014CB	HSHCS 3/8-16X1-3/4 PLTD.	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	8.000 ea
034180045JA	KEY,DE	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	404TC	60	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
138/69	CONT	40/F	1.00	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
595762	418142-71EE	---	---	.0270/.108		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	19.9	1200	6.84	0	
1/4	15.0	26.0	1197	59.7	90.5	
2/4	30.0	37.9	1194	79.0	93.9	
3/4	45.0	52.6	1191	84.6	94.6	
4/4	60.0	69.0	1187	86.1	94.5	
5/4	75.0	86.4	1184	86.4	94.0	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	159	422	425	
PULL UP		240	145	384	411	
BREAKDOWN		1133	246	654	243	
FULL LOAD		1187	100	265	69.0	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA						
		DR. BY	R.L. STEPHENS	A-C MOTOR PERFORMANCE DATA A40WG0844-R003 ISSUE DATE 08/04/20 Page 9 of 14		
		CK. BY	K.W. KANOUFF			
		APP. BY	K.W. KANOUFF			
		DATE	06/19/97			

REL S.O.

RPM 1185

S.F. 1.00

ROTOR 418142-71EE

FRAME 404TC

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 138/69

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

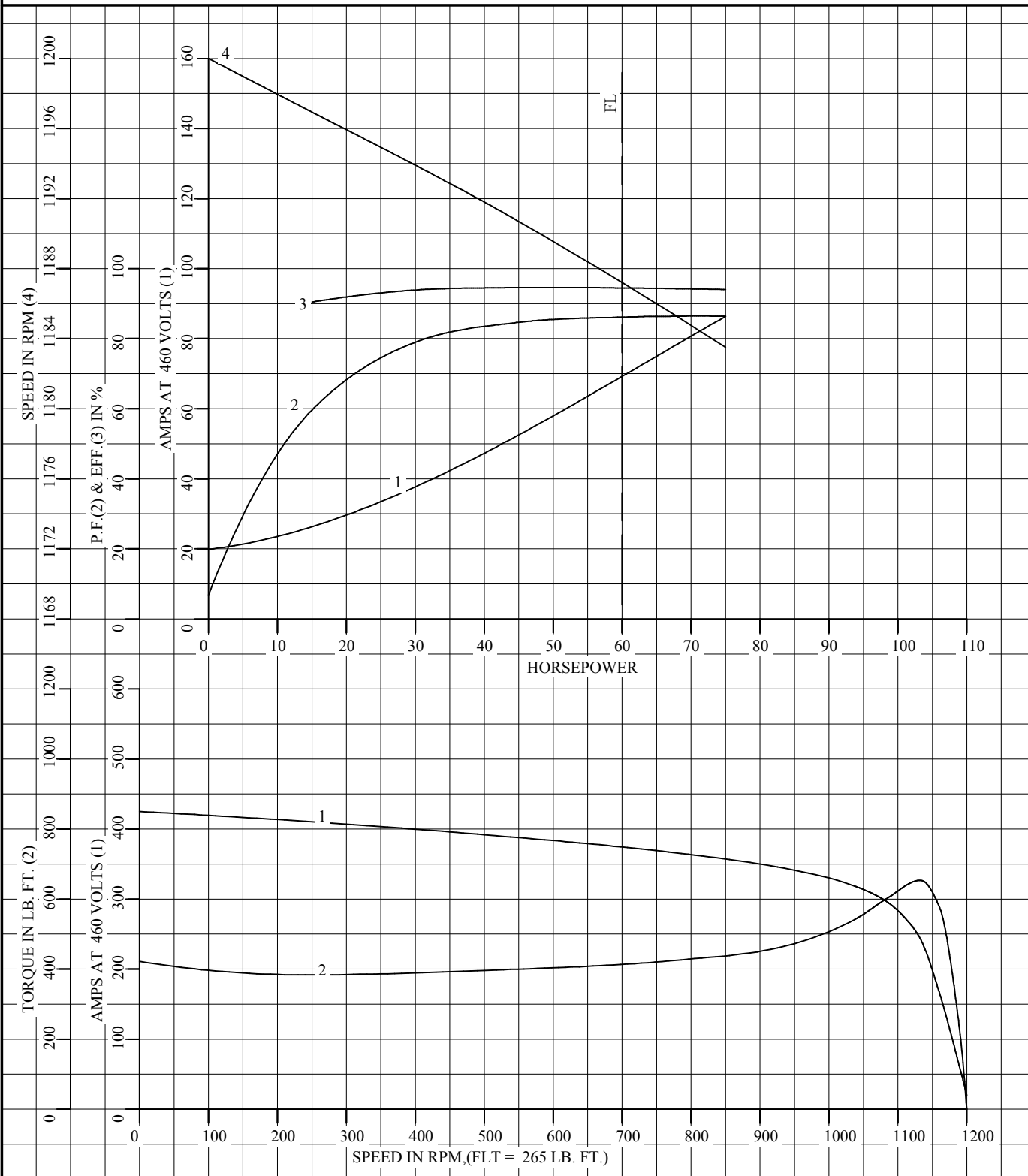
STATOR RES. @ 25 °C .0270/.108

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 595762

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
A MEMBER OF THE ABB GROUP

DR. BY R.L. STEPHENS
CK. BY K.W. KANOUFF
APP. BY K.W. KANOUFF
DATE 06/19/97

**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0844-R003

ISSUE DATE 08/04/20

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REL. S.O.

 RPM **1185**

 S.F. **1.00**

 ROTOR **418142-71EE**

 FRAME **404TC**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **60**

 AMPS **138/69**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

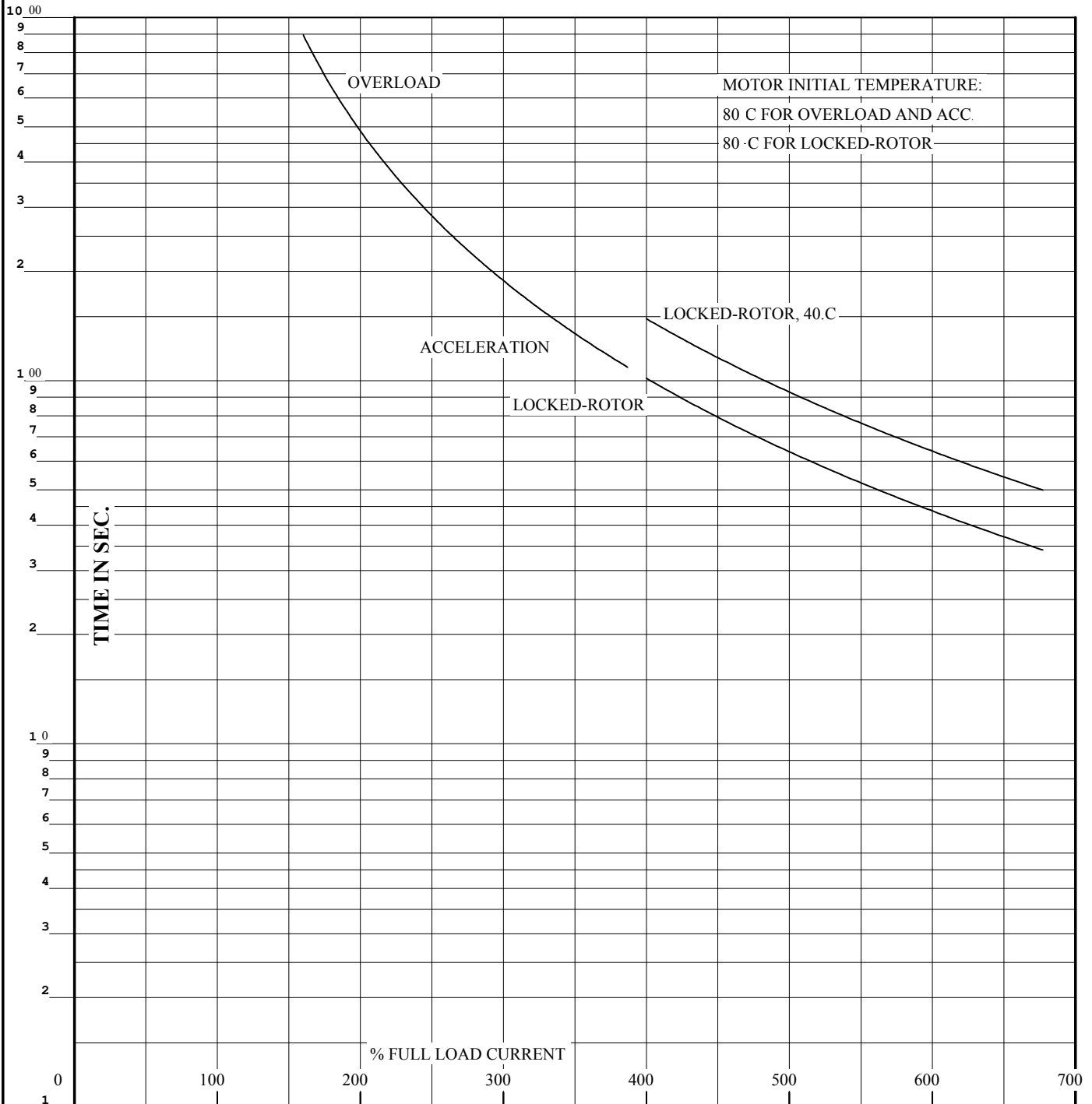
 STATOR RES. @ 25 °C **.0270/.108**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **595762**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

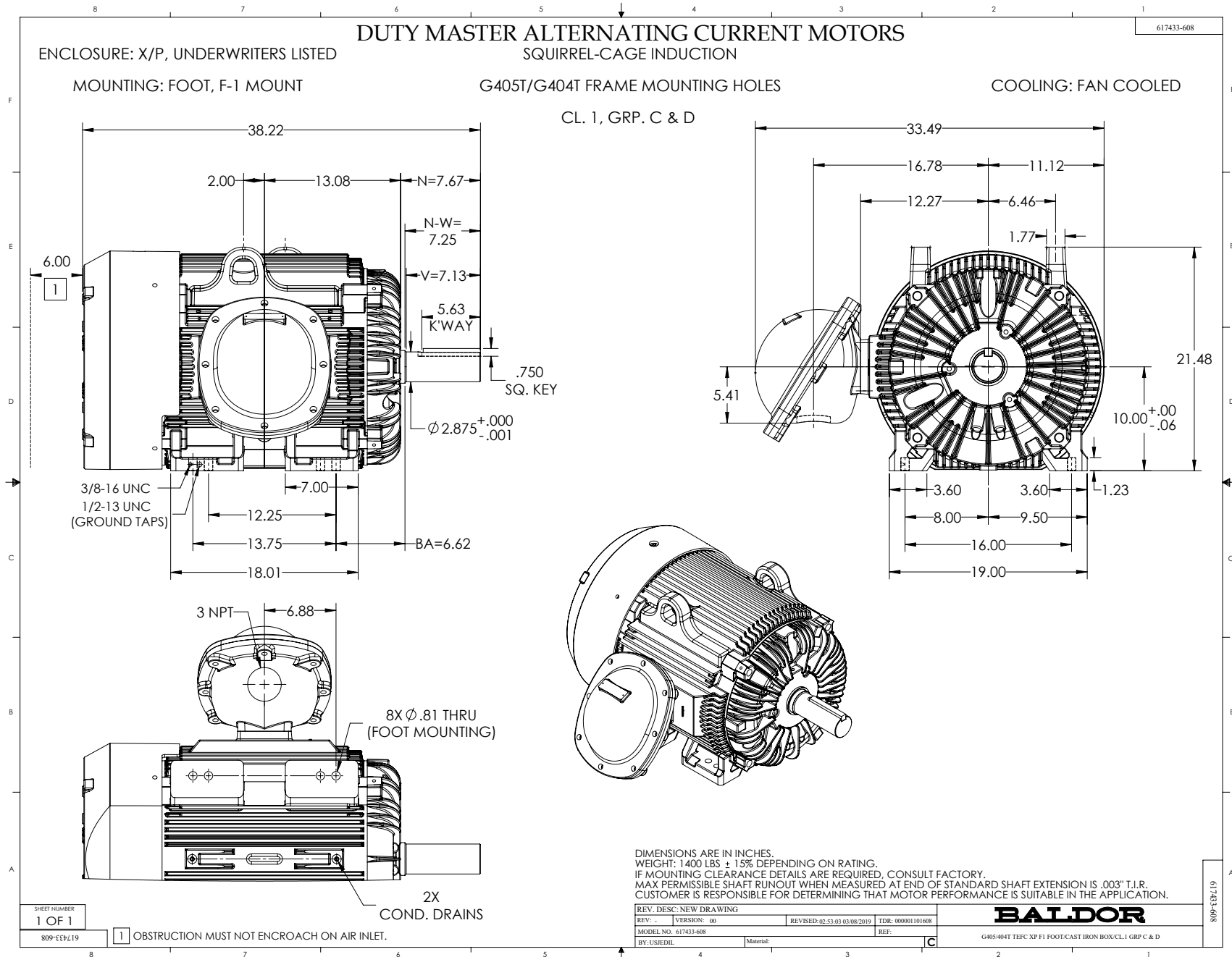
 AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.


DR. BY	R.L. STEPHENS
CK. BY	K.W. KANOUFF
APP. BY	K.W. KANOUFF
DATE	06/19/97

**A-C MOTOR
PERFORMANCE
CURVES**

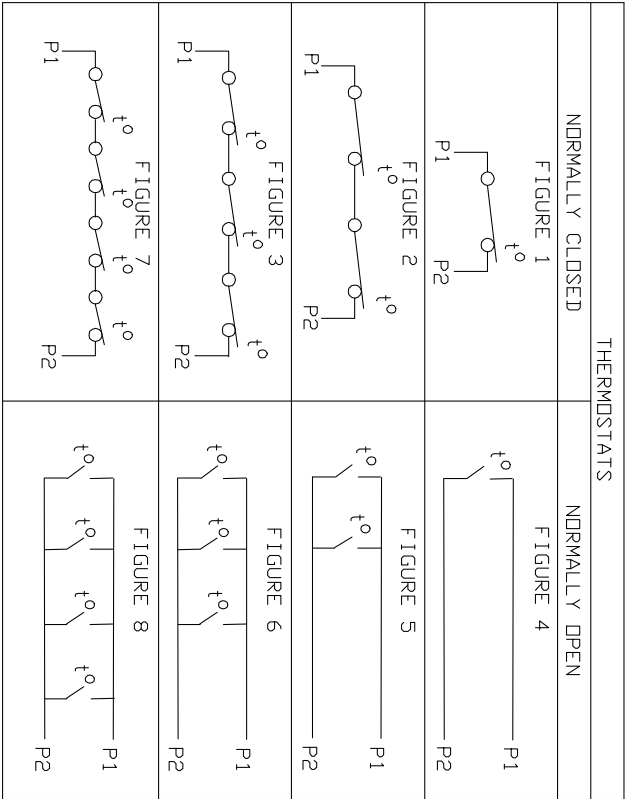
A40WG0844-R003

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CONNECTION DIAGRAM
ACCESSORIES

MOTOR WINDING THERMOSTATS		
CONTACTS _____ @ _____ °C		
FIGURE NUMBER _____		
CONTACT RATING		
VOLTS	CONTINUOUS AMPERES	INRUSH AMPERES
110-120	3.0	30
220-240	1.5	15
440-480	0.75	7.5
550-600	0.60	6.0

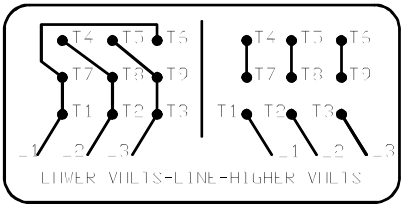
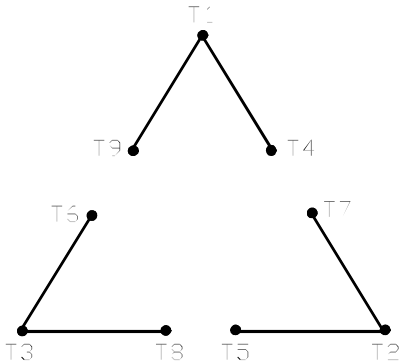


CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002