ABB BALDOR RELIANCE

Customer information packet

DRX40764T

75HP, 1185RPM, 3PH, 60HZ, 405T, TEFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	TEFC
Frame	405T
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	75.000 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	174.000 A @ 230.0 V
	87.000 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	87.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0770
Layout	617433-608
Eff. date	10-22-2021
CD Diagram	416820-002
Poles	06
Leads	3#2,6#4
Proprietary	False
Created date	04-30-2019

IP Rating	NONE
KVA Code	G
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	38.22 IN
Power Factor	85
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.	A40-7201-0770		**CAT.NO.**	DRX40764T					**FRAME**	405T	
HP	75	**VOLTS**	230/460	**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1185	**AMPS**	174/87	**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**	62/31			**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**	1405						

Parts List

Part number	Description	Quantity
SA369006	SA A40-7201-0770	1.000 ea
RA358545	RA A40-7201-0770	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	BREATHER/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
415072001B	CLAMP	1.000 ea
083198101A	*NO MFC*G400 STD FAN COVER MACHINING	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
078550001H	FAN KB 120/60 360	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	WILKOFAST, 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
	405T	75	P	3/60	1185	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
174/87	CONT	40/F	1.00	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
496234	418142-71-EE	---	---	.0215/.0860

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	31.0	1200	4.76	0
1/4	18.8	37.3	1197	51.5	91.5
2/4	37.5	50.9	1193	73.1	94.4
3/4	56.2	67.9	1190	81.7	94.9
4/4	75.0	87.2	1186	85.1	94.6
5/4	93.8	108	1182	86.2	94.1

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	166	552	537
PULL UP	400	158	524	506
BREAKDOWN	1128	243	808	302
FULL LOAD	1186	100	332	87.2

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-TYPICAL DATA-NEMA NOM EFF 94.5 PCT
GUARANTEED MIN EFF. 93.6 PCT

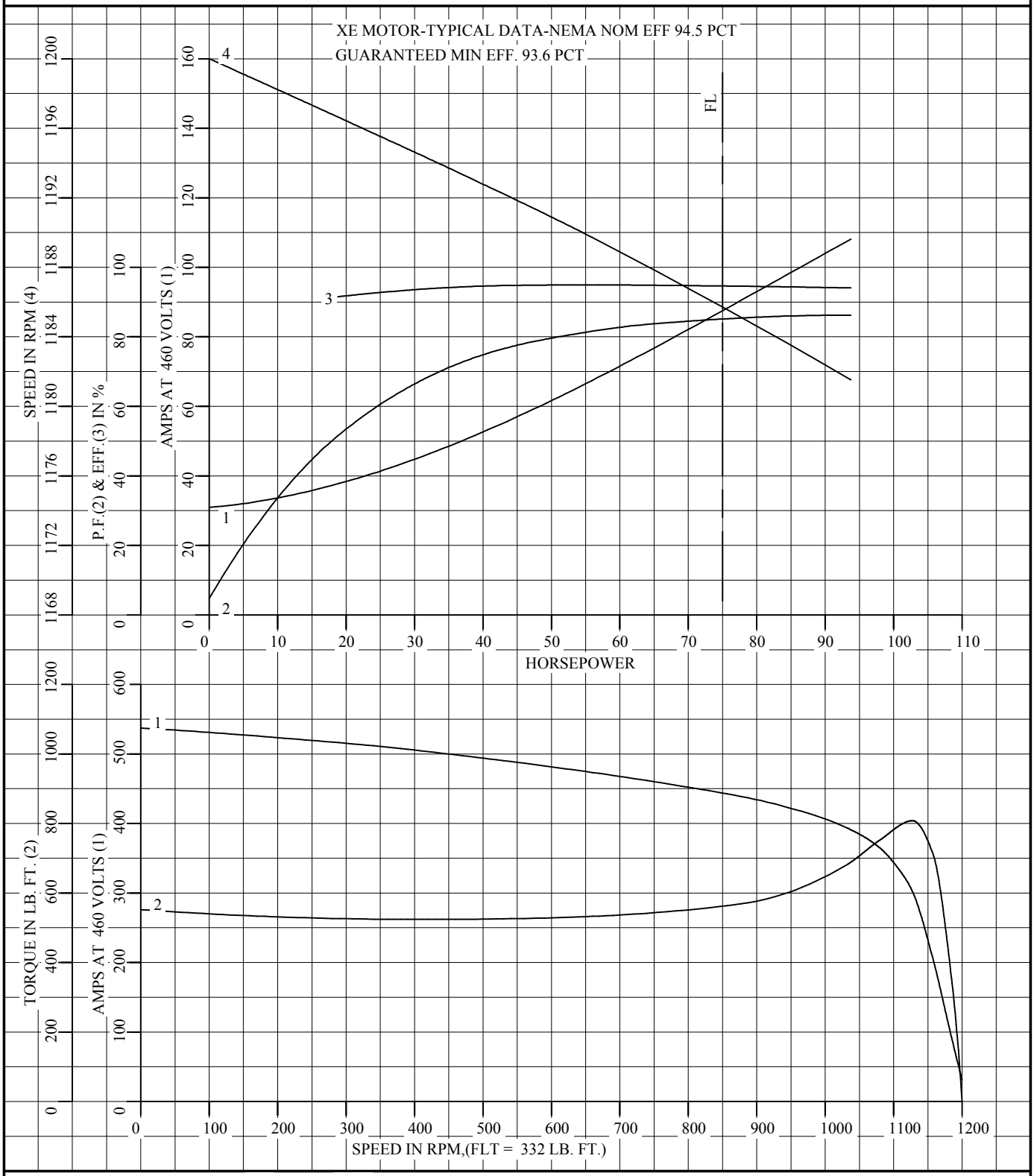
BALDOR A MEMBER OF THE ABB GROUP

DR. BY C.E. JAMISON
CK. BY W.L. SMITH
APP. BY E.J.CHRISTIAN
DATE 11/04/16

A-C MOTOR PERFORMANCE DATA

A40WG0770-R016
ISSUE DATE 08/04/20

REL S.O.	RPM 1185	S.F. 1.00	ROTOR 418142-71-EE
FRAME 405T	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 174/87	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0215/.0860
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 496234	OHMS (BETWEEN LINES)



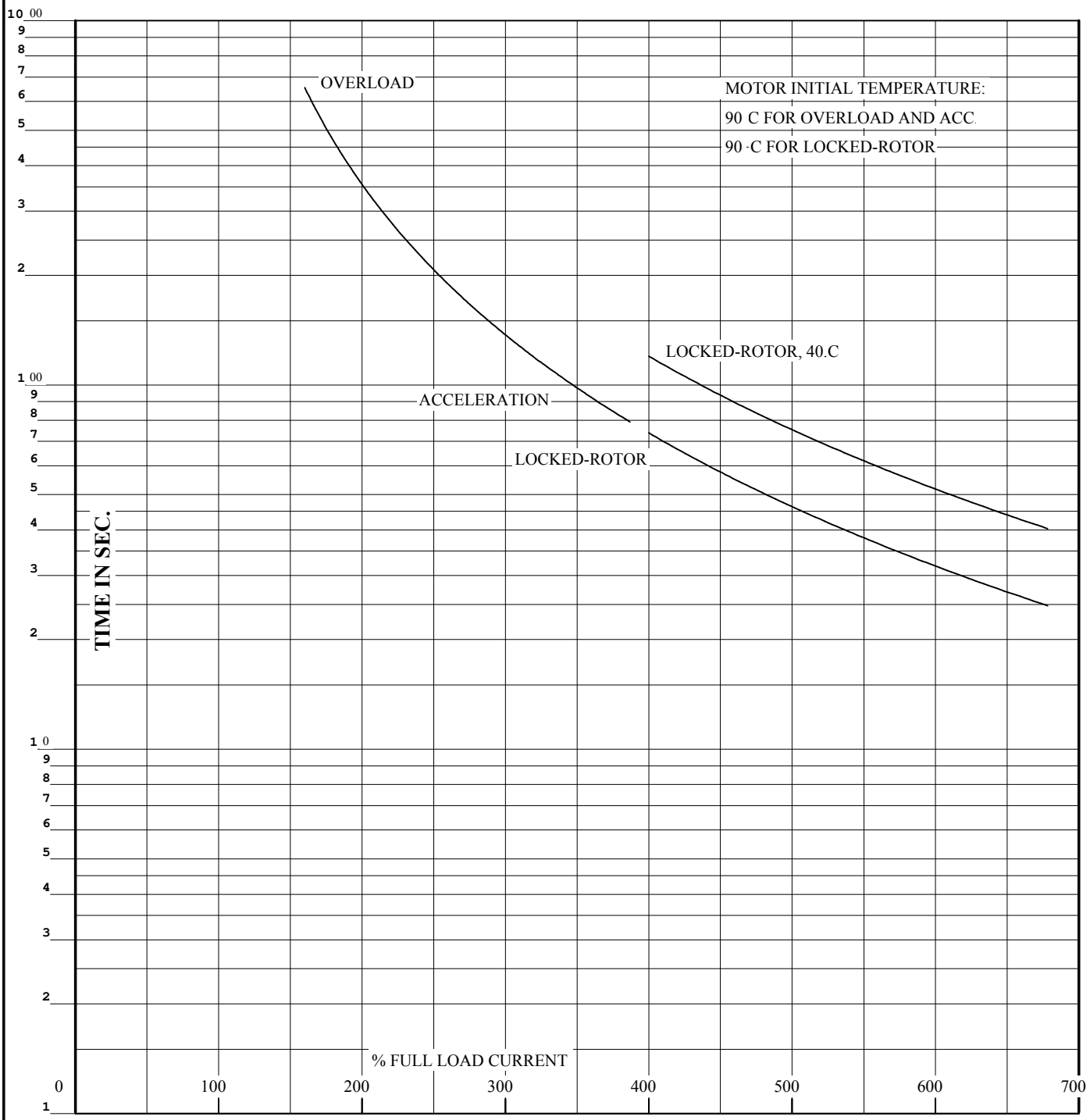
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	C.E. JAMISON
CK. BY	W.L. SMITH
APP. BY	E.J.CHRISTIAN
DATE	11/04/16

A-C MOTOR PERFORMANCE CURVES A40WG0770-R016 ISSUE DATE 08/04/20

REL. S.O.		RPM	1185	S.F.	1.00	ROTOR	418142-71-EE
FRAME	405T	VOLTS	230/460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	75	AMPS	174/87	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.0215/.0860
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	496234		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM EFF 94.5 PCT

GUARANTEED MIN EFF. 93.6 PCT

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	C.E. JAMISON
CK. BY	W.L. SMITH
APP. BY	E.J.CHRISTIAN
DATE	11/04/16

A-C MOTOR PERFORMANCE CURVES

A40WG0770-R016

ISSUE DATE 08/04/20

Printed on 8/4/20 5:59 @ bengap01.baldc

DUTY MASTER ALTERNATING CURRENT MOTORS

617433-608

ENCLOSURE: X/P, UNDERWRITERS LISTED

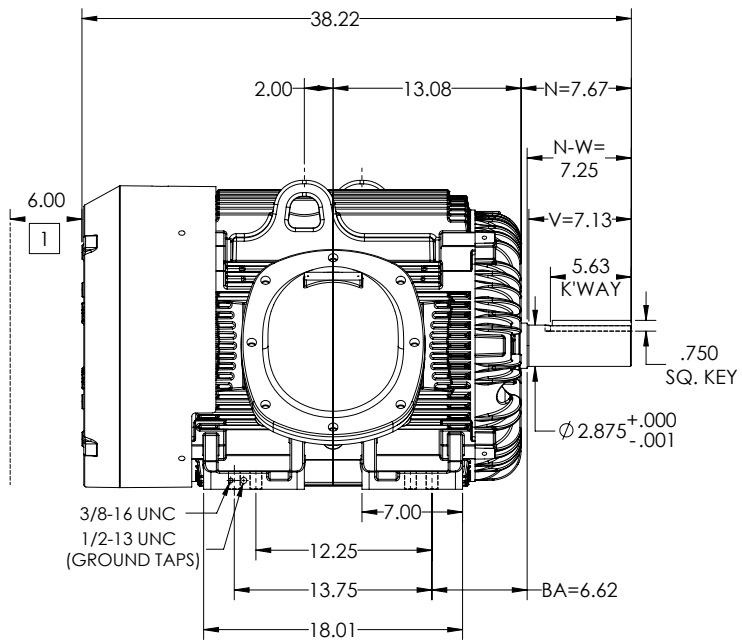
SQUIRREL-CAGE INDUCTION

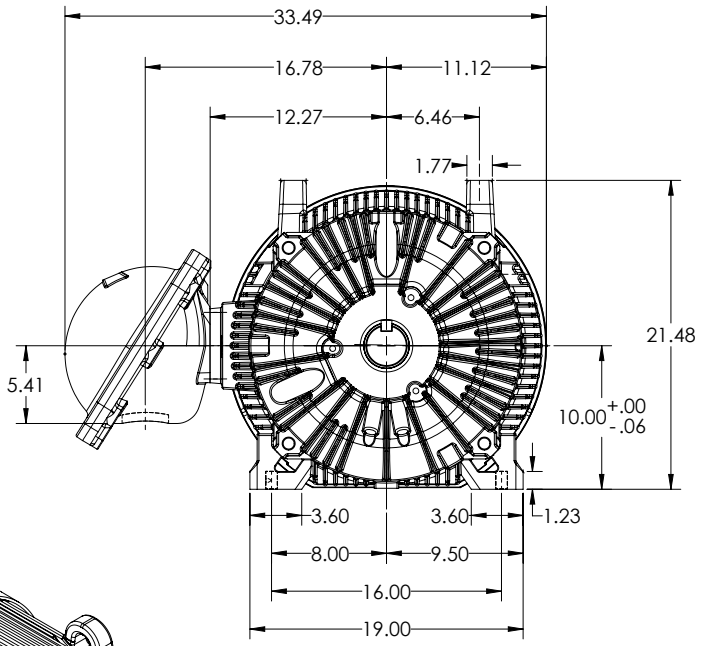
MOUNTING: FOOT, F-1 MOUNT

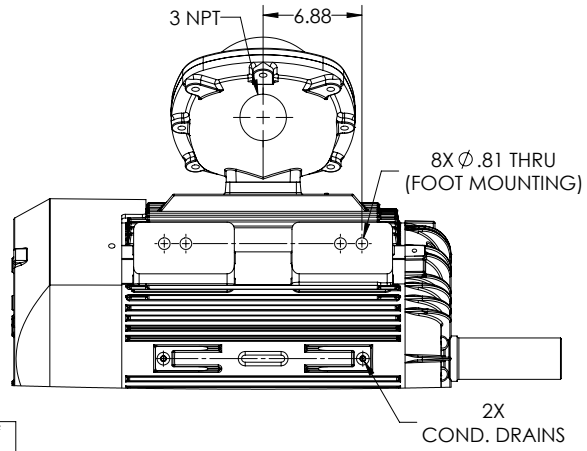
G405T/G404T FRAME MOUNTING HOLES

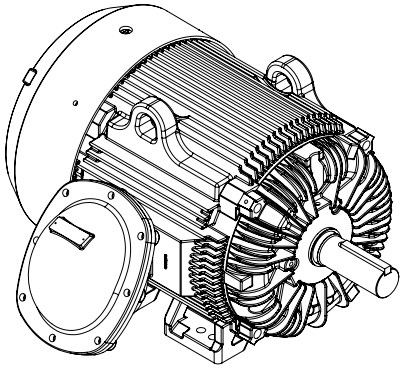
CL. 1, GRP. C & D

COOLING: FAN COOLED









DIMENSIONS ARE IN INCHES.
WEIGHT: 1400 LBS ± 15% DEPENDING ON RATING.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 02:53:03 03/08/2019	TDR: 000001101608
MODEL NO. 617433-608			REF:
BY: USJEDIL	Material:		C

BALDOR

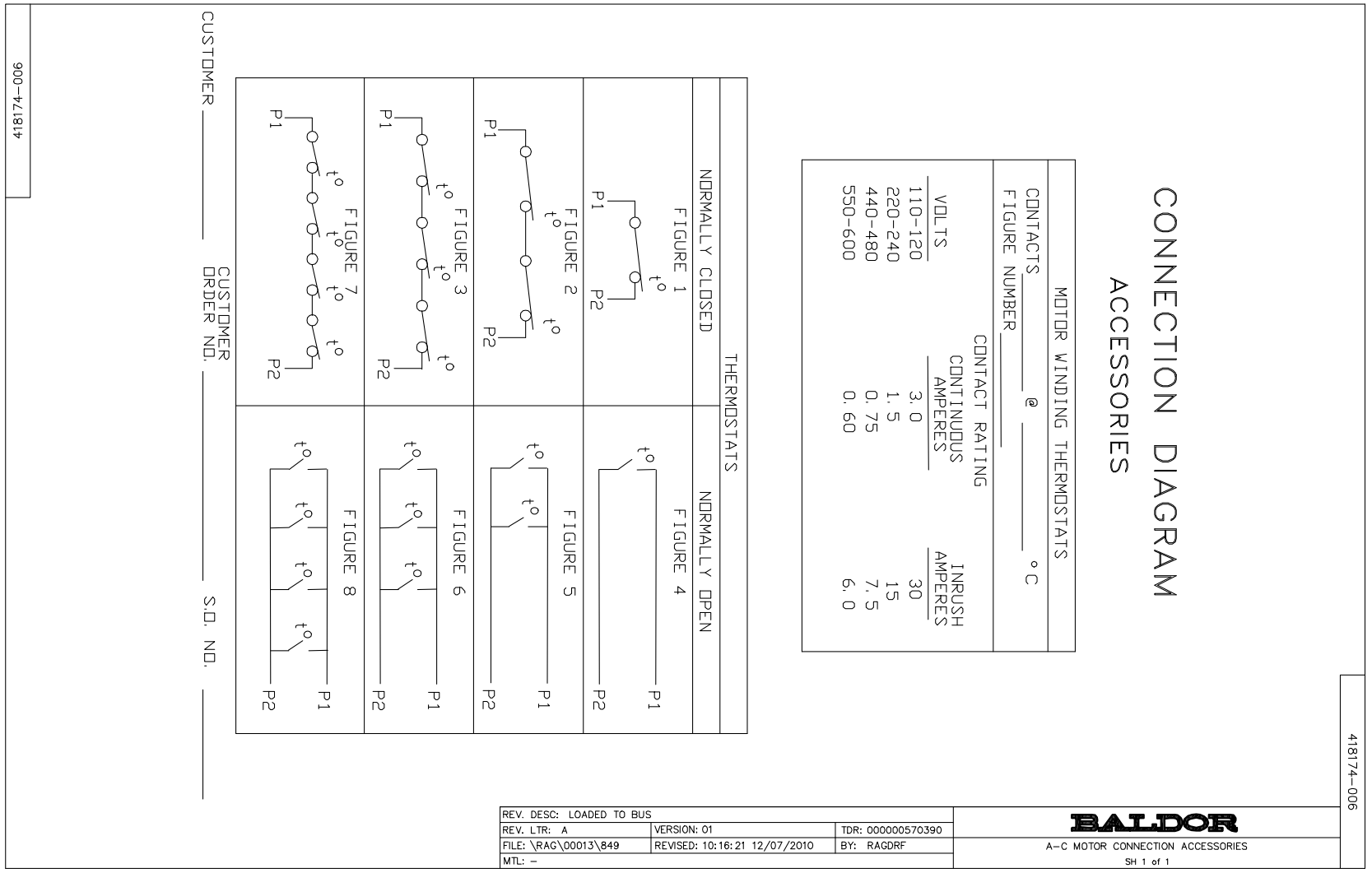
G405/404T TEFC XP F1 FOOT/CAST IRON BOX/CL.1 GRP C & D

617433-608

SHEET NUMBER 1 OF 1

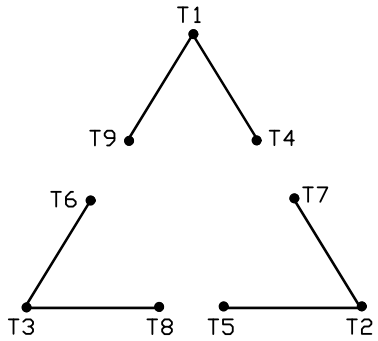
617433-608

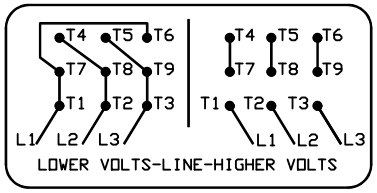
1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.


CONNECTION DIAGRAM
ACCESSORIES
418174-006
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
THERMOSTATS
NORMALLY CLOSED
NORMALLY OPEN
FIGURE 1
FIGURE 2
FIGURE 3
FIGURE 4
FIGURE 5
FIGURE 6
FIGURE 7
FIGURE 8
P1
P2
CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____
418174-006
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: -
BALDOR
A-C MOTOR CONNECTION ACCESSORIES
SH 1 of 1

416820-002

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





(N. P. 1575-B)

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: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002