ABB BALDOR RELIANCE

Customer information packet

DRX40664T

60HP, 1185RPM, 3PH, 60HZ, 404T, TEFC, F1
Class - CLI GP C,D
Division - Division I

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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**							

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

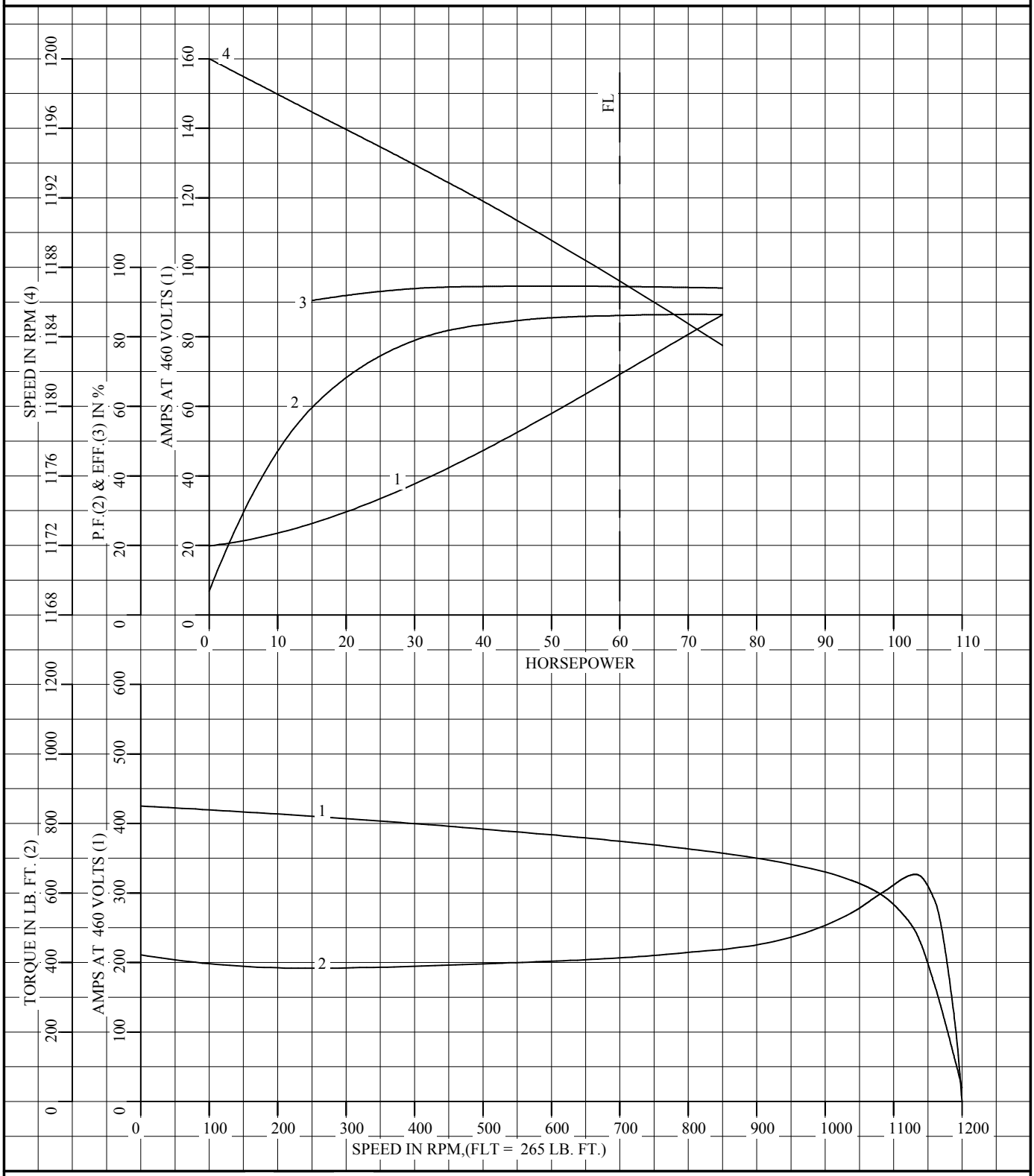
SPEED TORQUE

	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

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

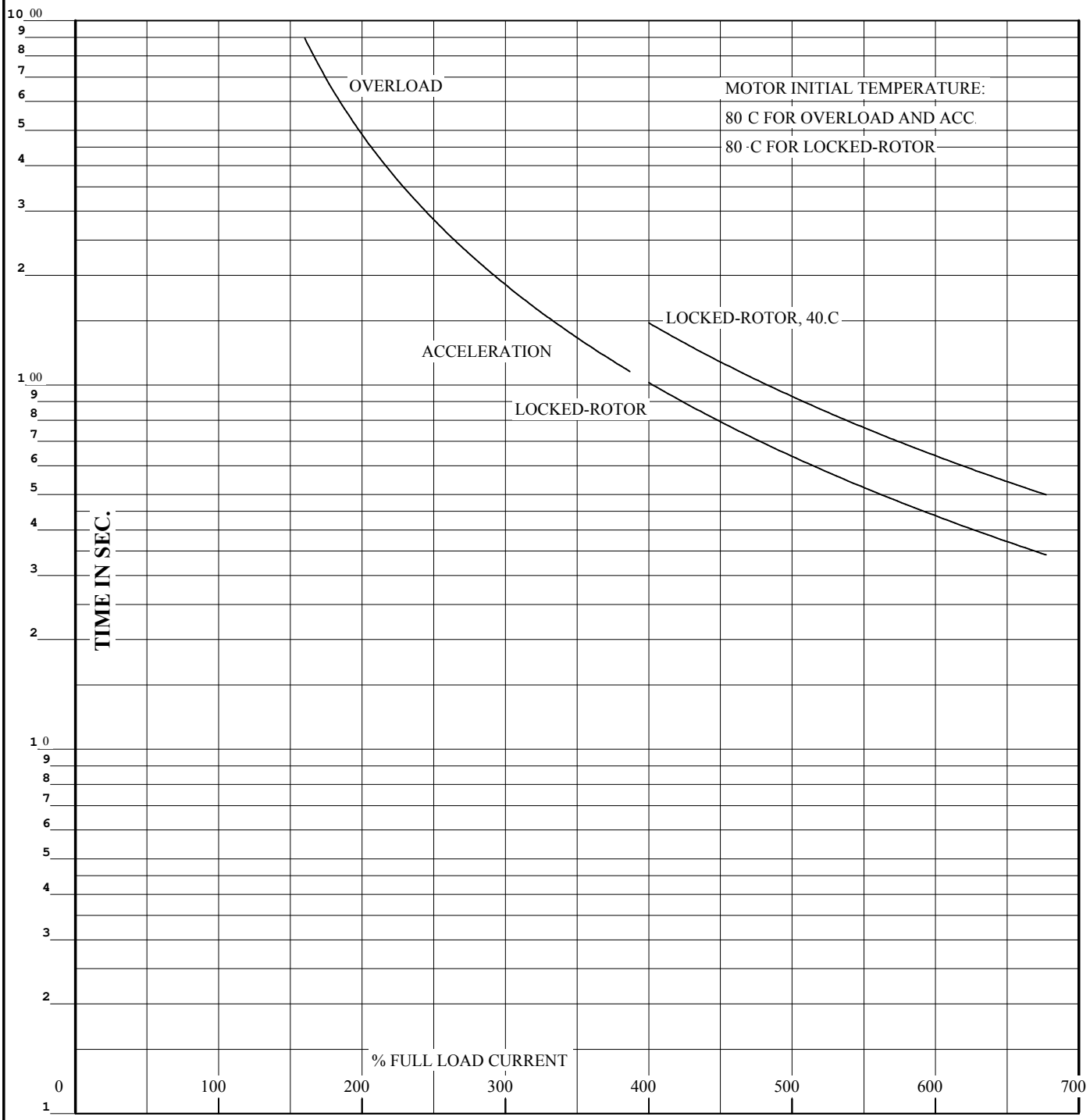
DR. BY	R.L.STEPHENS
CK. BY	K.W. KANOUFF
APP. BY	K.W. KANOUFF
DATE	06/19/97

A-C MOTOR PERFORMANCE CURVES

A40WG0844-R003

ISSUE DATE 08/04/20

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.

DUTY MASTER ALTERNATING CURRENT MOTORS

617433-608

ENCLOSURE: X/P, UNDERWRITERS LISTED

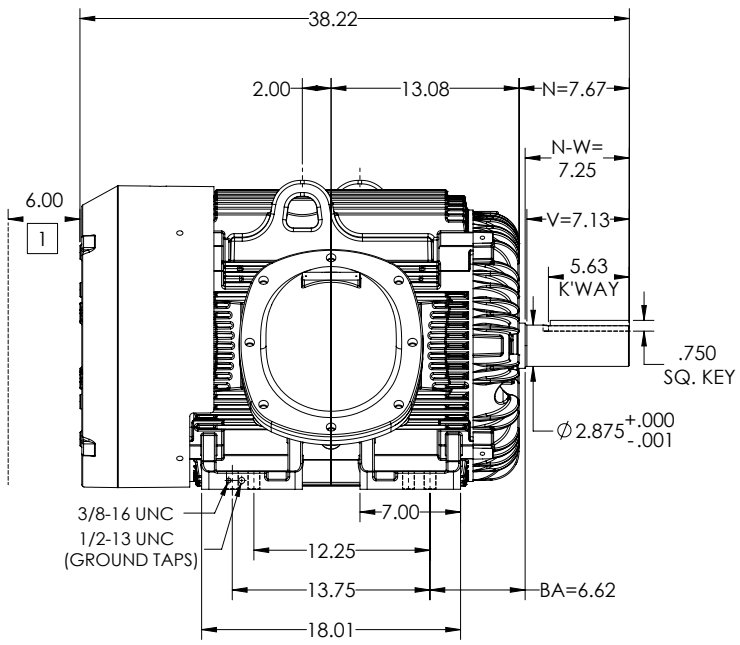
SQUIRREL-CAGE INDUCTION

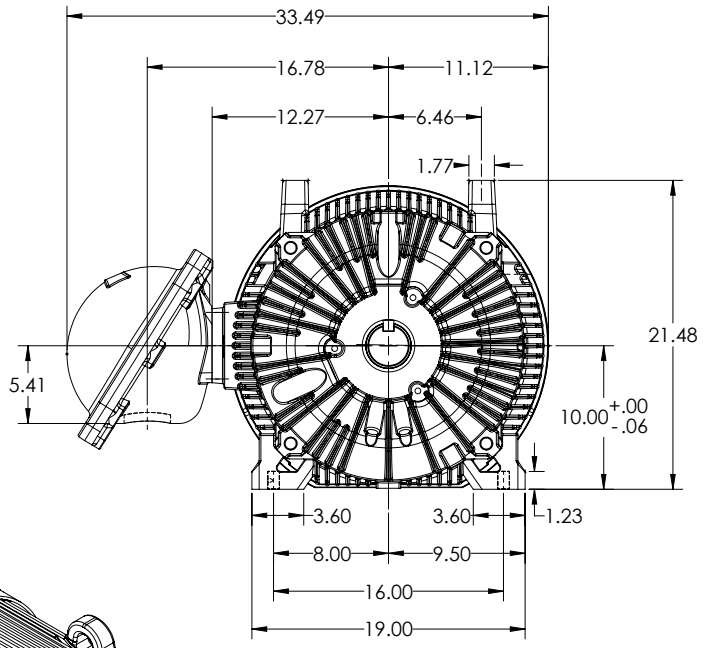
MOUNTING: FOOT, F-1 MOUNT

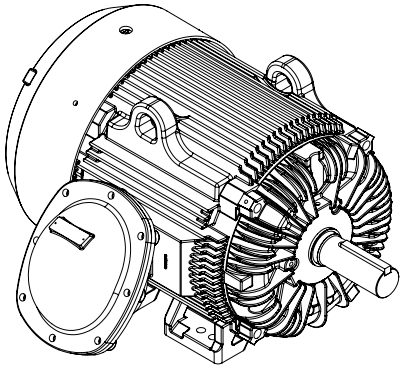
G405T/G404T FRAME MOUNTING HOLES

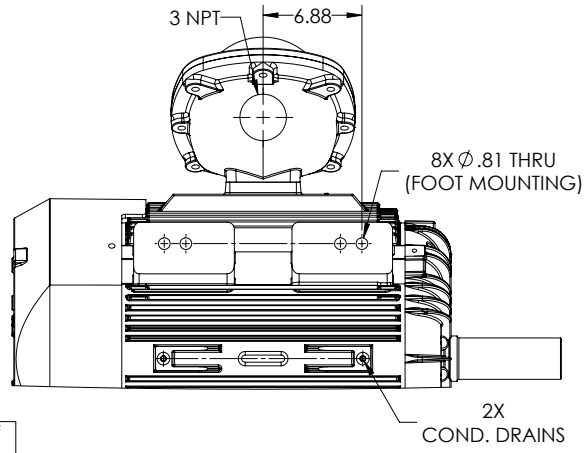
CL. 1, GRP. C & D

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

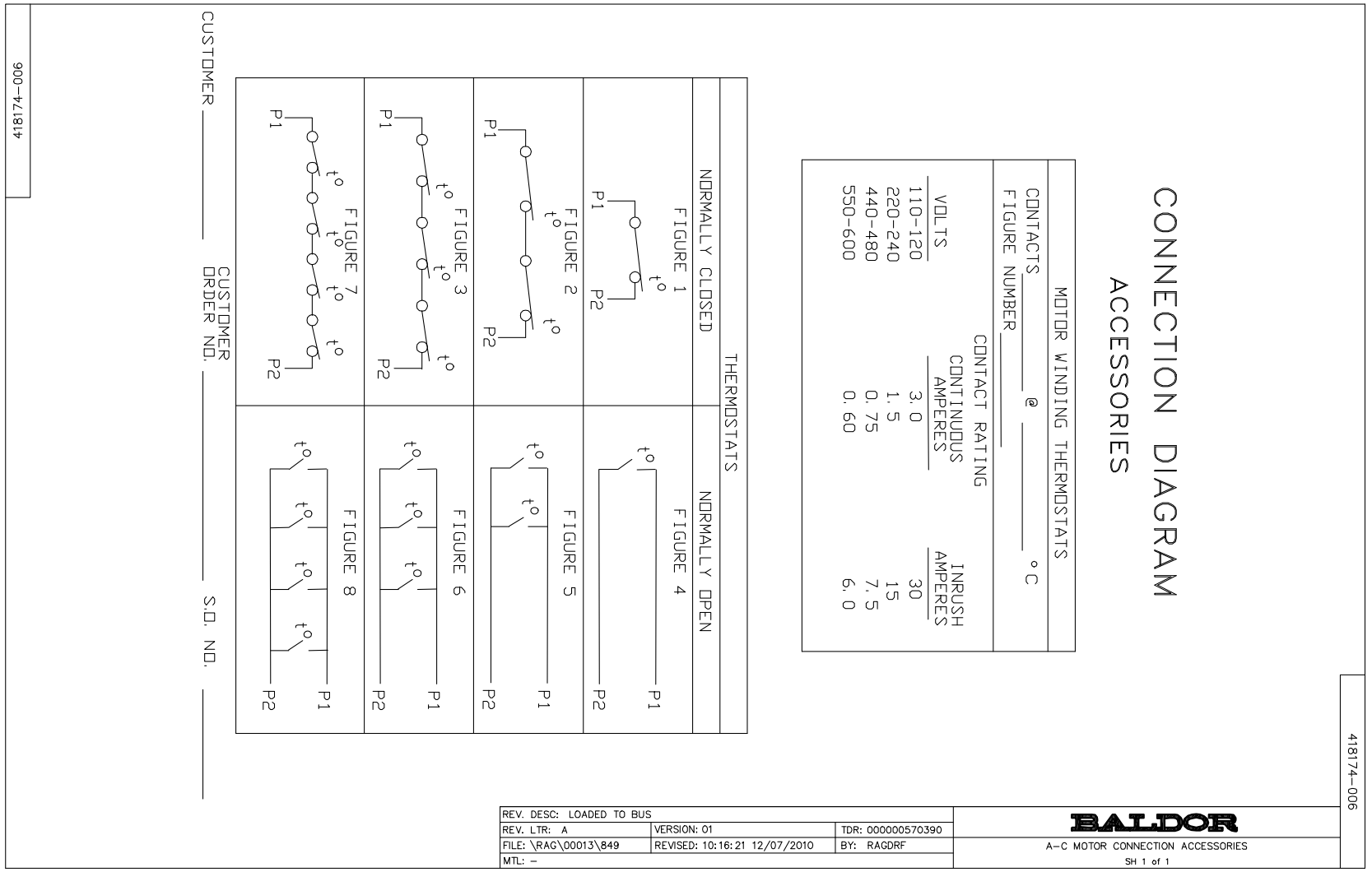
G405/404T TEFC XP F1 FOOT/CAST IRON BOX/CL.1 GRP C & D

617433-608

SHEET NUMBER 1 OF 1

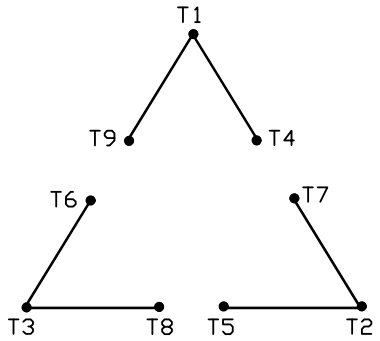
617433-608

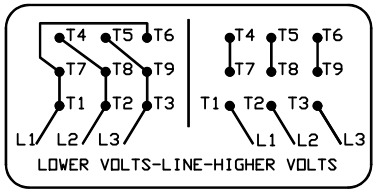
1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.


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
t°
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