

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
RPM	1185	AMPS	138/69	HZ	60
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
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90
		RPM MAX	2700	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

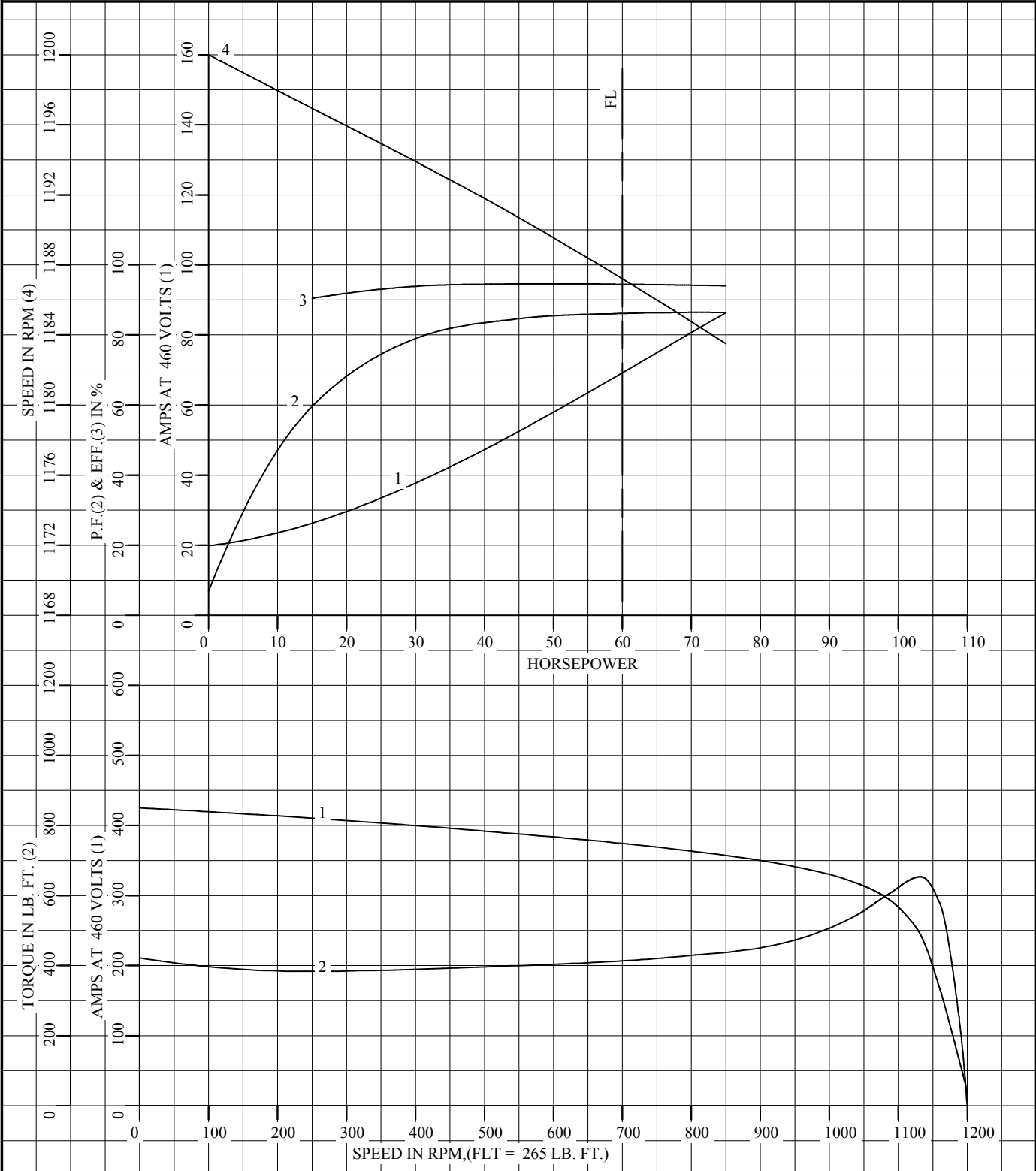
REMARKS: TYPICAL DATA



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

**A-C MOTOR
 PERFORMANCE A40WG0844-R003
 DATA** 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)



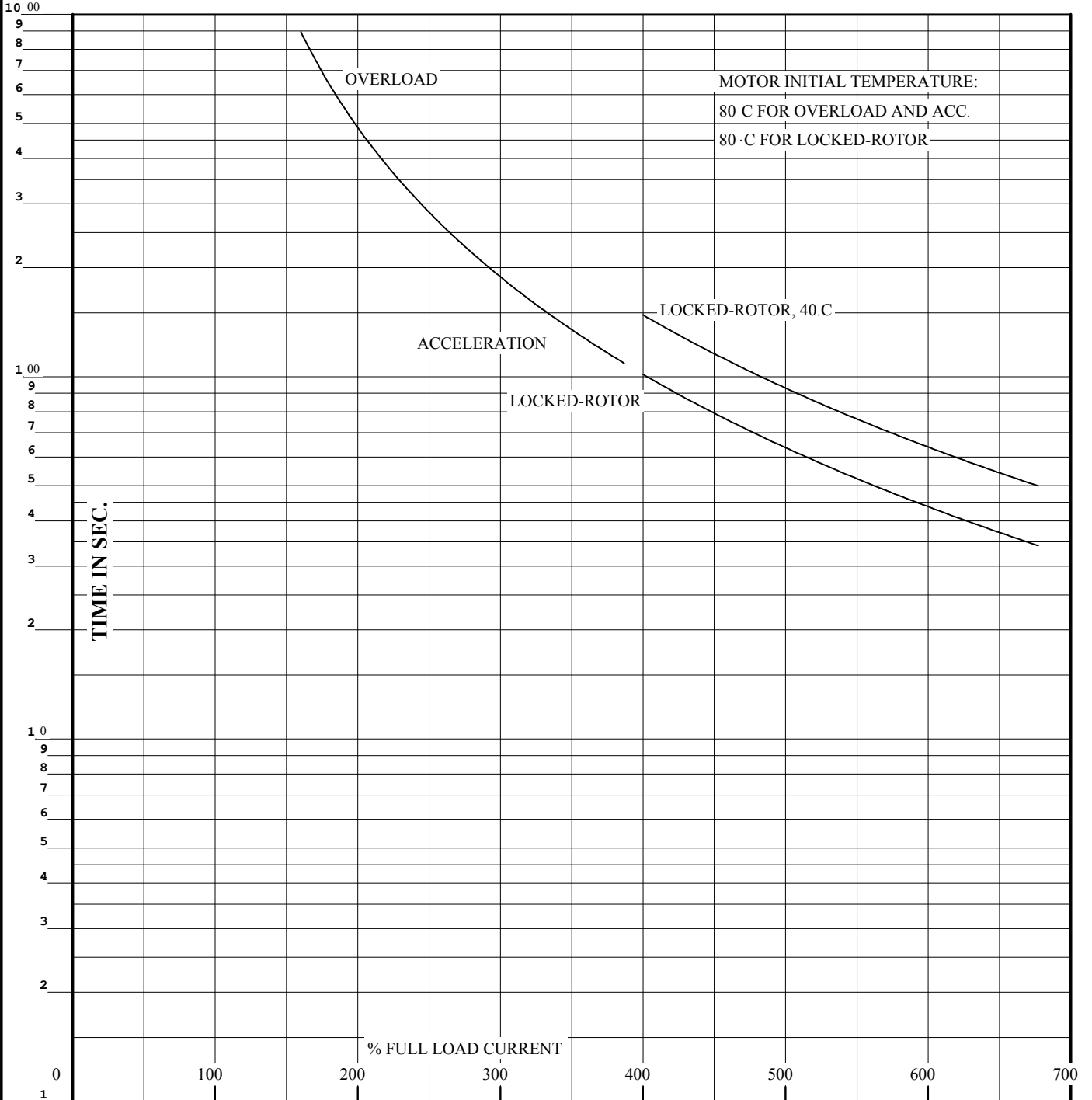
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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 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.



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DATE	06/19/97

**A-C MOTOR
PERFORMANCE CURVES** **A40WG0844-R003**
ISSUE DATE 08/04/20 Page 9 of 12

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

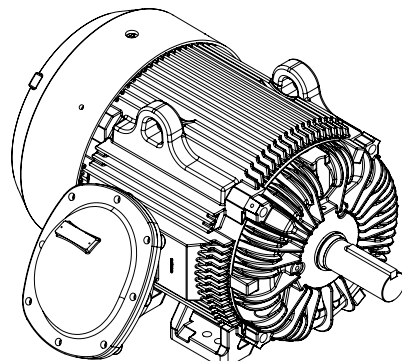
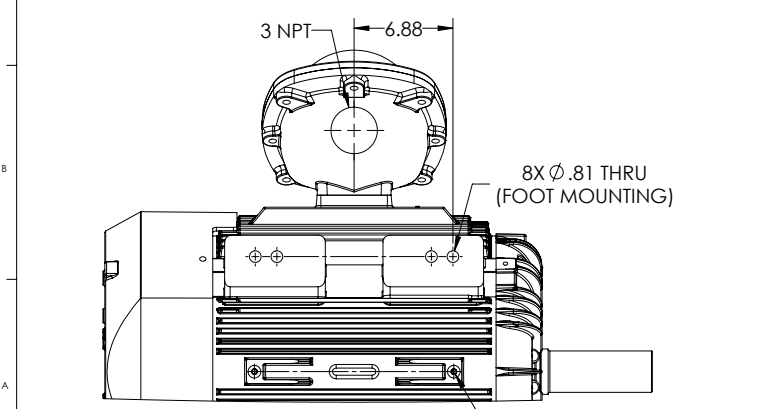
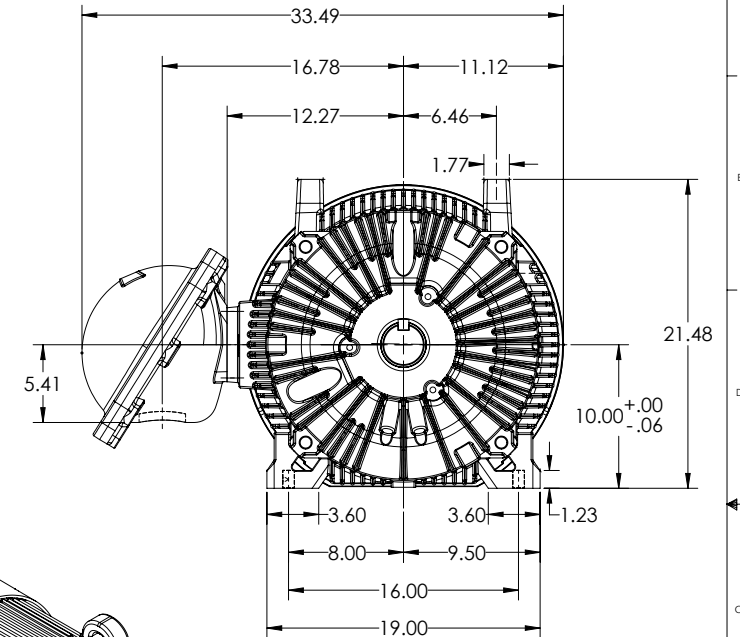
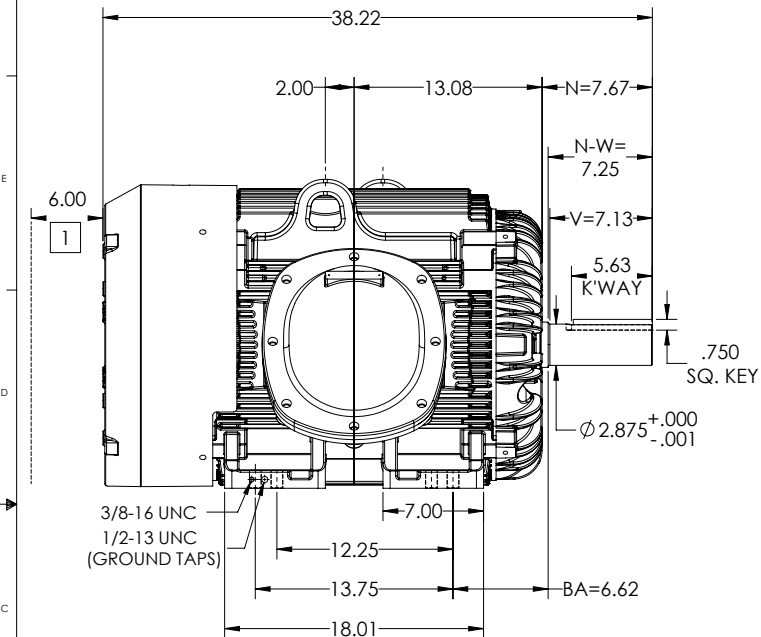
ENCLOSURE: X/P, UNDERWRITERS LISTED

MOUNTING: FOOT, F-1 MOUNT

G405T/G404T FRAME MOUNTING HOLES

COOLING: FAN COOLED

CL. 1, GRP. C & D



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.

SHEET NUMBER 1 OF 1	OBSTRUCTION MUST NOT ENCR OACH ON AIR INLET.
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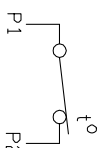
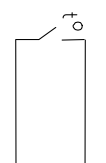
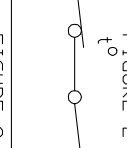
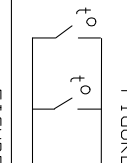
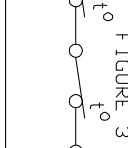
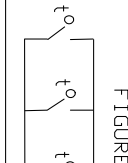
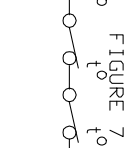
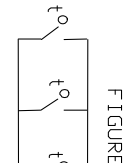
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MODEL NO. 617433-608	BY: USJEDIL	Material:	REF:

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

617433-608

CONNECTION DIAGRAM ACCESSORIES

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

NORMALLY CLOSED	THERMOSTATS	NORMALLY OPEN
 <p>FIGURE 1</p>		 <p>FIGURE 4</p>
 <p>FIGURE 2</p>		 <p>FIGURE 5</p>
 <p>FIGURE 3</p>		 <p>FIGURE 6</p>
 <p>FIGURE 7</p>		 <p>FIGURE 8</p>

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

418174-006

418174-006

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MTL: -		

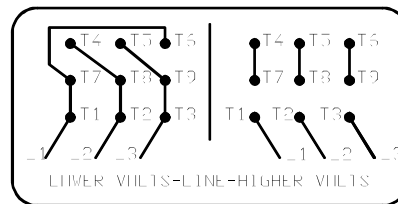
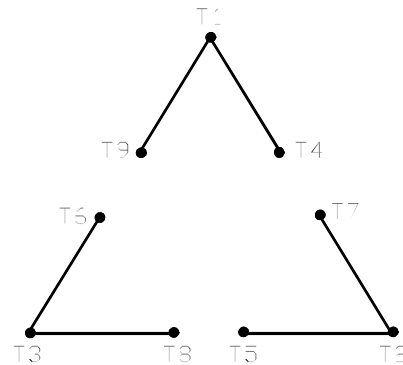
BALDOR

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)

416820-002

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
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MTL: -	© □	

BALDOR - RELIANCE®

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH 1 of 1