

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								

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		
		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

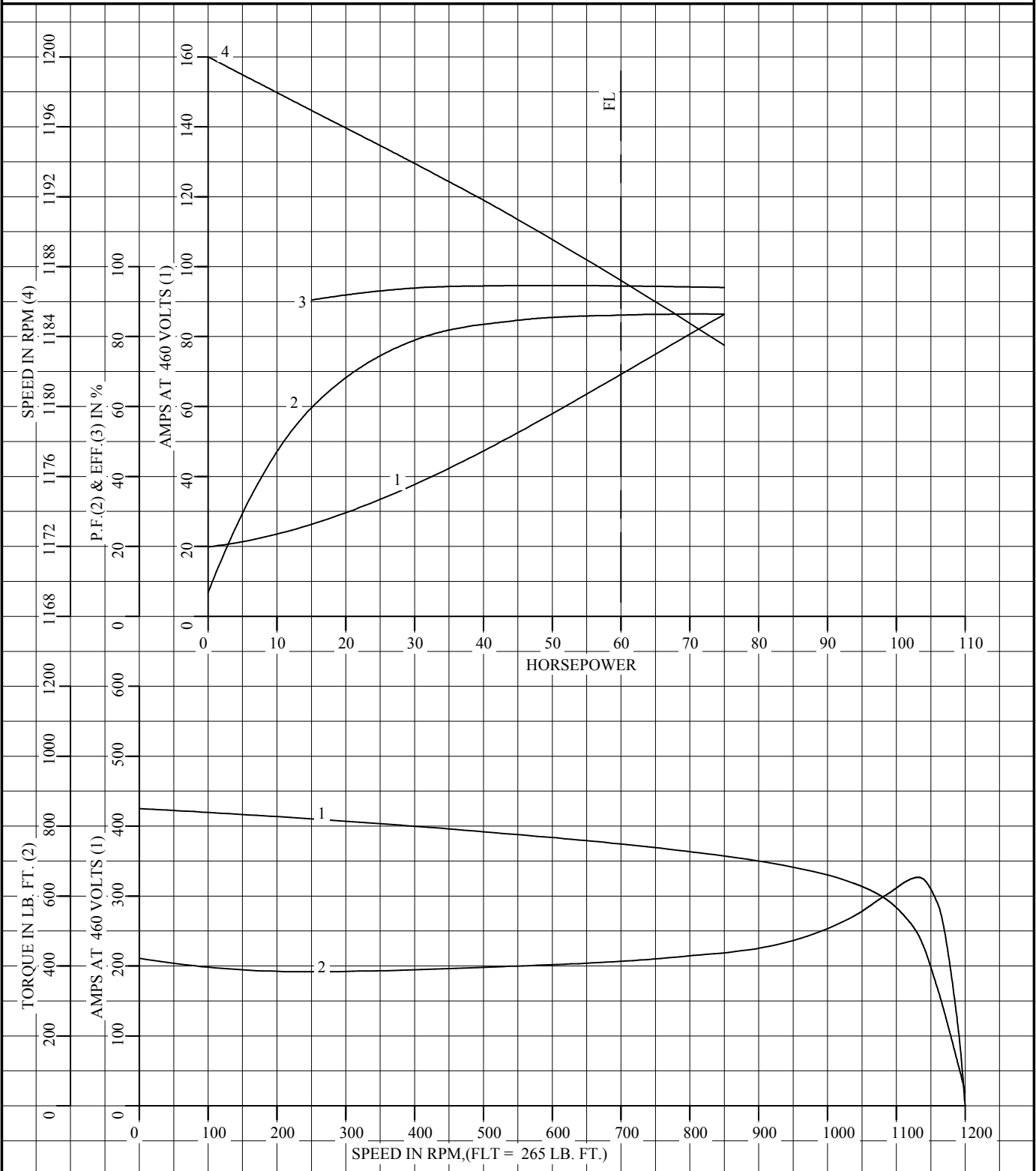
STATOR RES. @ 25 °C .0270/.108

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

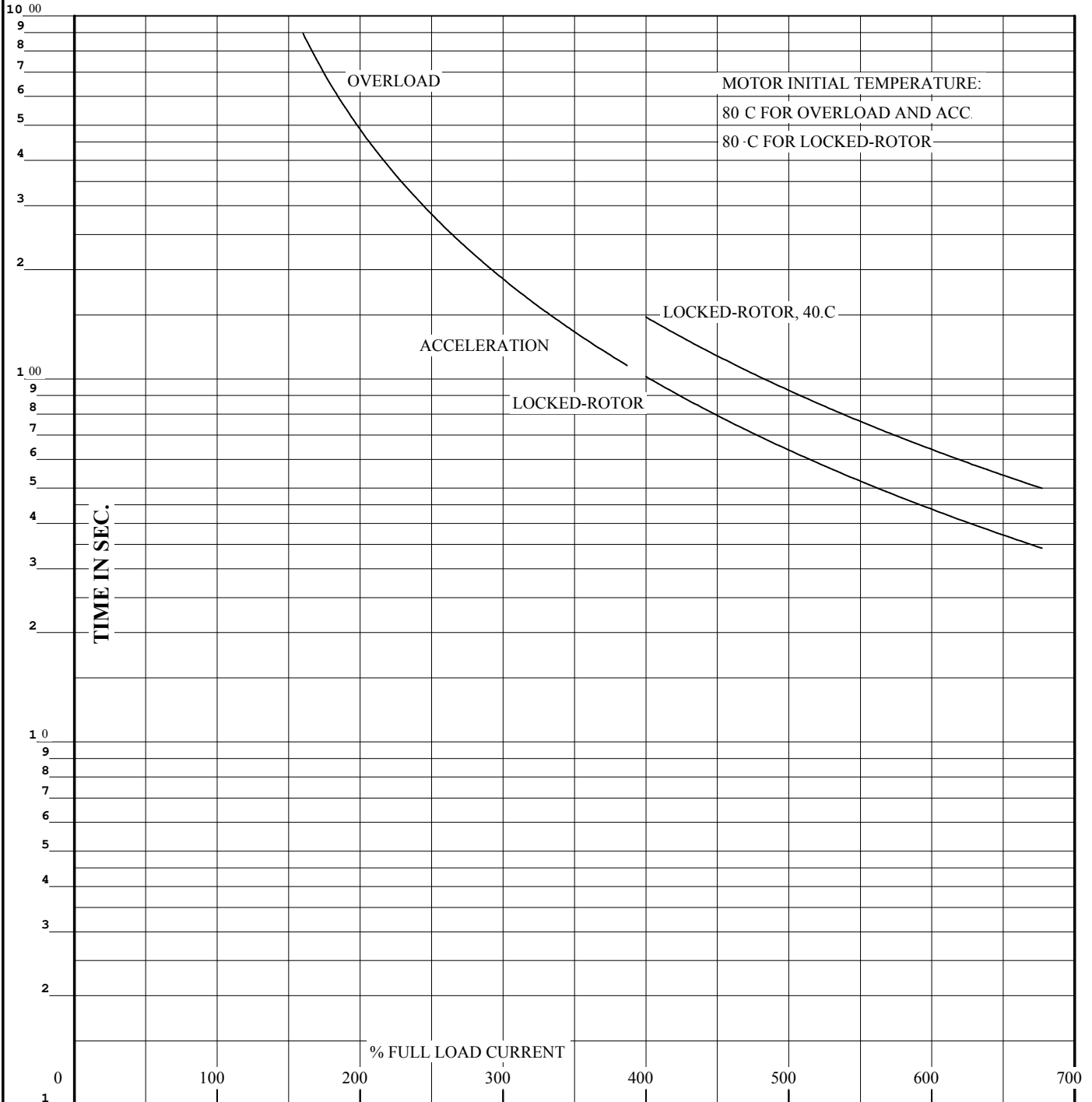
**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0844-R003

ISSUE DATE 08/04/20

Page 8 of 12

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)



REMARKS:

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 Page 9 of 12

617433-608

COOLING: FAN COOLED

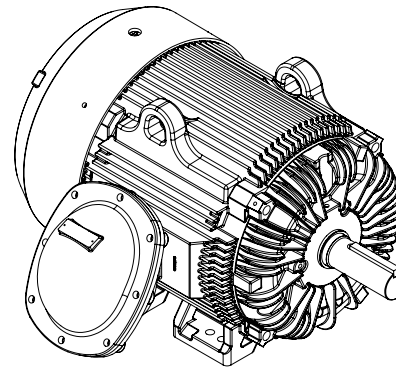
Technical drawing of a circular mechanical component, likely a pump or motor housing, showing detailed dimensions. The drawing includes a side view of a flange on the left and a top view of the main circular body. Dimensions are provided in millimeters (mm).

Top View Dimensions:

- Overall diameter: 33.49
- Inner diameter: 11.12
- Distance from center to outer edge (radius): 16.78
- Distance from center to mounting flange: 12.27
- Distance from center to mounting flange (inner): 6.46
- Distance from center to mounting flange (outer): 1.77
- Distance from center to mounting flange (inner, bottom): 3.60
- Distance from center to mounting flange (inner, bottom): 3.60
- Distance from center to mounting flange (inner, bottom): 8.00
- Distance from center to mounting flange (inner, bottom): 9.50
- Distance from center to mounting flange (inner, bottom): 16.00
- Distance from center to mounting flange (inner, bottom): 19.00

Side View Dimensions:

- Flange thickness: 5.41
- Flange diameter: 21.48
- Flange diameter (inner): 10.00 (+0.00, -0.06)
- Flange diameter (outer): 1.23



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.

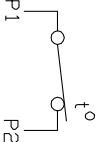
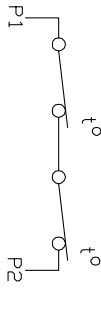
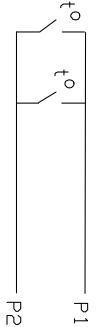
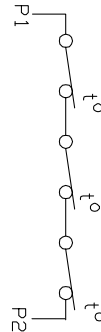
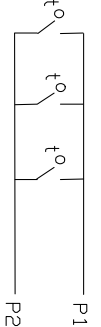
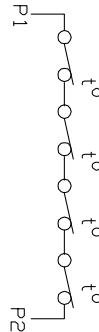
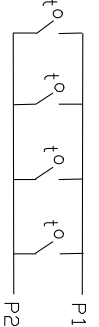
REV. DESC: NEW DRAWING			
REV: .	VERSION: 00	REVISED: 02-53:03 03/08/2019	TDR: 00000110160
MODEL NO. 617433-608			REF:
BY: USJEDIL		Material:	

BALDOR

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

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

THERMOSTATS	
NORMALLY CLOSED	NORMALLY OPEN
FIGURE 1 	FIGURE 4 
FIGURE 2 	FIGURE 5 
FIGURE 3 	FIGURE 6 
FIGURE 7 	FIGURE 8 

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

418174-006

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: -		

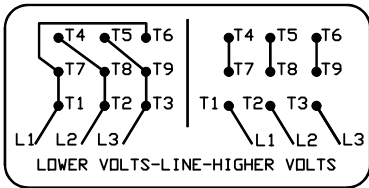
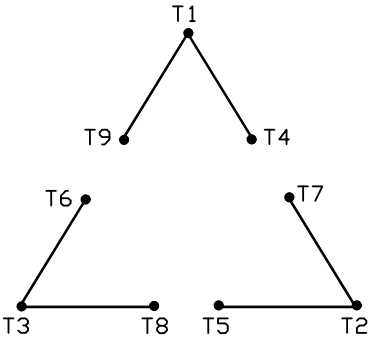
BALDOR

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)

416820-002

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: -		

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1