

ABB BALDOR RELIANCE III

Customer information packet

CPX36746T

75HP, 1785RPM, 3PH, 60HZ, 365T, A36070M, TEFC

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	TEFC
Frame	365T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UL CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
Current @ Voltage	171.000 A @ 230.0 V 188.000 A @ 208.0 V 85.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	85.6 a
Insulation Class	F

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4076
Layout	616512-505
Eff. date	07-28-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	07-25-2025

Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36070M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.48 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1785 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	E F G	
OPERATING TEMP CODE	T3C	

NP3140L

SPEC NO.	A36-7732-4076			CAT.NO.	CPX36746T					FRAME	365T
HP	75	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P	
RPM	1785	AMPS	171/85.6		HZ	60	AMB	40	SF	1.00	
DRIVE END BEARING	65BC03J30X		DUTY	CONT	INSUL.CLASS			F			
OPP D.E. BEARING	65BC03J30X		ENCL	TEFC	CODE	G					
SF	1.15	WK2	16.2	MAG CUR	55.2/27.6		RPM MAX	2700			
CT HZ	10-60	VT HZ	0-60	CHP HZ	60-90		NEMA-NOM-EFF		95.4		
	SUIT FOR 55C AMB AT 1.00 SF						IP66				
SER.NO.				MOTOR WEIGHT			965				

Parts List

Part number	Description	Quantity
SA439903	SA A36-7732-4076	1.000 ea
RA432295	RA A36-7732-4076	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
609158001B	SLGR - 360	1.000 ea
603284001S	SLGR - 360	1.000 ea
087793060BB	BRKT 360 087793050WCB	1.000 ea
415072001B	CLAMP	1.000 ea
415030051AX	BUSH - 360	1.000 ea
078559001A	+FANCV - 360	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
702676001C	FAN 360	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018018CK	HHCS 3/8-16X2-1/4 PLTD.	2.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
604923009R	SLGR - 360	1.000 ea
410700004F	WSHR	1.000 ea
034017016AB	LCKW 1/2" PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
032130020DB	HSCHS 1/2-13X2-1/2 PLTD.	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	2.000 ea
034530056AC	P/NIP 1/8X7L GALV-365	1.000 ea
032620012HD	HSSS 8-32X3/8 304S.S.	2.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
087793113	BRKT STD 313 E360 FCXP W/ CL.II GRP E &	1.000 ea

032018018CK	HHCS 3/8-16X2-1/4 PLTD.	2.000 ea
604923009R	SLGR - 360	1.000 ea
034017016AB	LCKW 1/2" PLATED	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	2.000 ea
032620012HD	HSSS 8-32X3/8 304S.S.	2.000 ea
404478000CC	BRDRN (180-280)	1.000 ea
034530020AB	P/NIP 1/8X2-1/2 PLTED	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415030051AX	BUSH - 360	1.000 ea
032130020DB	HSHCS 1/2-13X2-1/2 PLTD.	4.000 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
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea

AC Induction Motor performance data

Record #83267 - Typical performance - not guaranteed values

Winding	A36WG4073
Type	A3670M
Enclosure	TEFC

Nameplate data

Rated Output	75		
Volts	230 / 460		
Full Load Amps	172 / 86.2		
R.P.M.	1780		
Hz	60	Phase	3
KVA Code	H		
Service Factor (S.F.)	1		
NEMA Nom. Eff.	95.4	Power Factor	85
Duty	CONT		
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

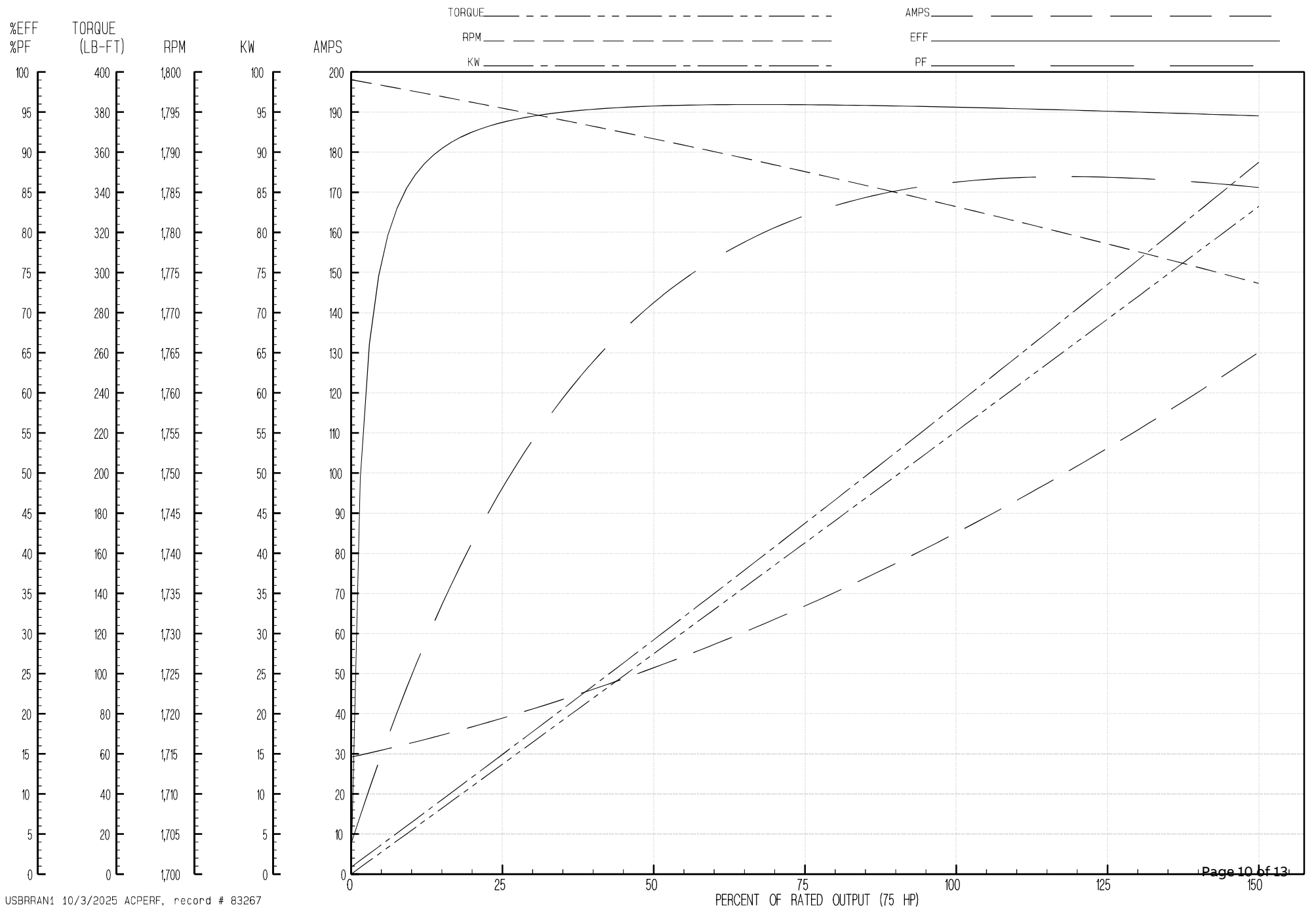
Full Load Torque	220.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	646 LB-FT
Pull-up Torque	387 LB-FT
Locked-rotor Torque	499 LB-FT
Starting Current	627 A
No-load Current	30.8
Line-line Res. @ 25°C	0.07769 Ω
Temp. Rise @ Rated Load	61°C
Temp. Rise @ S.F. Load	0°C
Locked-rotor Power Factor	32.9
Rotor inertia	16.2 lb-ft²

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	3	51	73	81	85	86	86	0
Efficiency	0	93.5	95.6	95.9	95.6	95.1	94.4	0
Speed	1798.9	1795.7	1791.7	1787.7	1782.8	1778.9	1773.6	0
Line amperes	30.8	36.9	50.3	67.3	86.2	107	129	0

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1780 RPM 460 V A3670M
TORQUES (LB-FT): P0=646.00 PU=387.00 LR=499.00 LRA=627.00



DUTY MASTER ALTERNATING CURRENT MOTORS

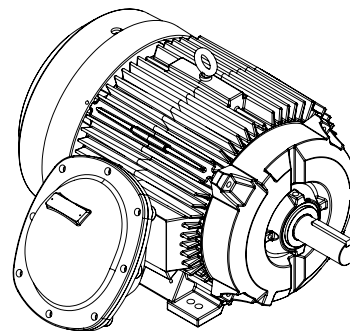
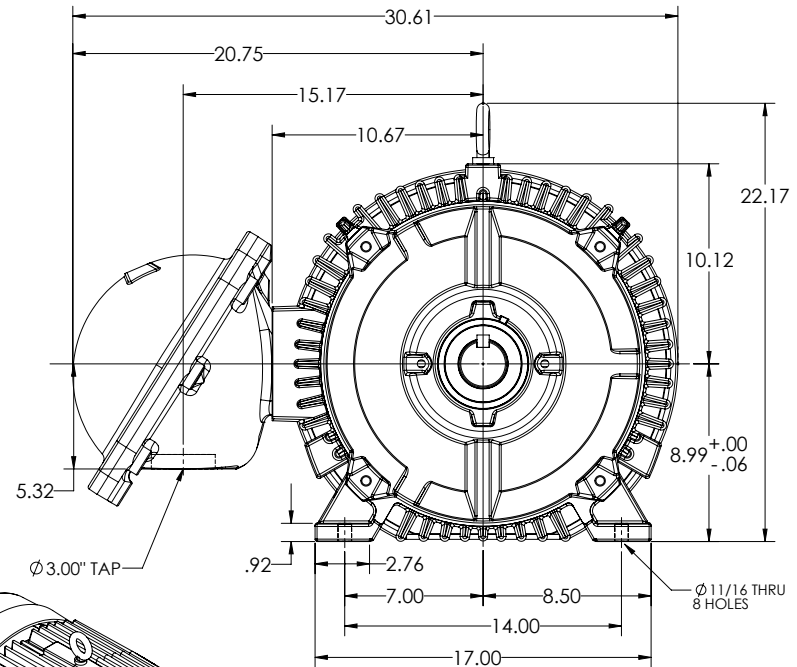
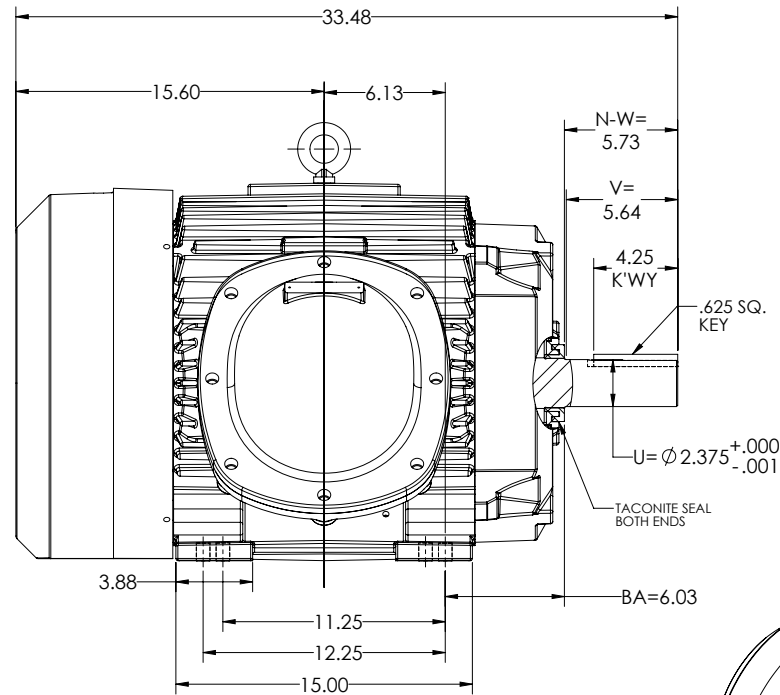
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-1 SIDE

FRAME 365T
INCLUDES 364T FRAME MOUNTING HOLES
CLASS 1 GROUP C&D / CLASS 2 GROUP E,F & G
WITH TACONITE SEAL BOTH ENDS

COOLING: FAN-COOLED



DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER
1 OF 1

505-215619

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: UPDATE RUNOUT TO .003"			
REV: A	VERSION: 01	REVISED: 02/06/51 10/07/2021	TDR: 000001179238
MODEL NO. 616512-505			
BY: USJOSUL			

BALDOR

E365T 6313 FCXP W/BOLT ON COND BOX CL 1 GR C,D CL 2 GR E,F&G

616512-505

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. _____

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

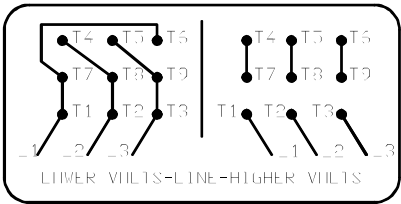
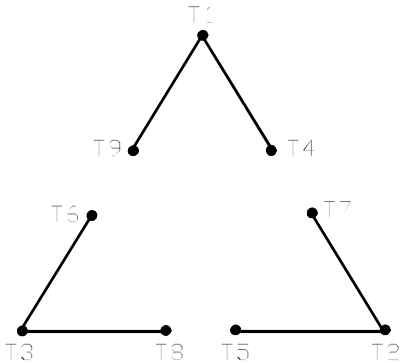
SH 1 of 1

418174-006

418174-006

416820-002

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



(N.P. 1575-B)

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

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

416820-002