

# **ABB BALDOR RELIANCE III**

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## **Customer information packet** CCPX36746T

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

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

Division - Division I

**Specifications**

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

**Part Detail**

<b>Revision</b>	-
<b>Type</b>	AC
<b>Mech. spec.</b>	
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	A36WG4076
<b>Layout</b>	611742-778
<b>Eff. date</b>	07-28-2025
<b>CD Diagram</b>	416820-002
<b>Poles</b>	04
<b>Leads</b>	3#4,6#6
<b>Proprietary</b>	False
<b>Created date</b>	07-25-2025

<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	G
<b>Max Speed</b>	2700 rpm
<b>Motor Lead Quantity/Wire Size</b>	3 @ 4 AWG
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	A36070M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	33.48 IN
<b>Power Factor</b>	86
<b>Product Family</b>	General Industrial
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	2.374 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	1785 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Normally Closed Thermostat

**Nameplate**

<b>NP2496L</b>
MOBIL POLYREX EM

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**000692000FX**

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**000613006PC**

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<b>CLASS I GROUP</b>	C D X	<b>NO.</b>	
<b>CLASS II GROUP</b>	E F G		
<b>OPERATING TEMP CODE</b>	T3C		

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**NP3140L**

<b>SPEC NO.</b>	A36-7736-4076			<b>CAT.NO.</b>	CCPX36746T			<b>FRAME</b>	365TC	
<b>HP</b>	75	<b>VOLTS</b>	230/460		<b>PHASE</b>	3	<b>DESIGN</b>	B	<b>TYPE</b>	P
<b>RPM</b>	1785	<b>AMPS</b>	171/85.6		<b>HZ</b>	60	<b>AMB</b>	40	<b>SF</b>	1.00
<b>DRIVE END BEARING</b>	65BC03J30X		<b>DUTY</b>	CONT		<b>INSUL.CLASS</b>	F			
<b>OPP D.E. BEARING</b>	65BC03J30X		<b>ENCL</b>	TEFC		<b>CODE</b>	G			
<b>SF</b>	1.15	<b>WK2</b>	16.2	<b>MAG CUR</b>	55.2/27.6		<b>RPM MAX</b>	2700		
<b>CT HZ</b>	10-60	<b>VT HZ</b>	6-60	<b>CHP HZ</b>	60-90		<b>NEMA-NOM-EFF</b>	95.4		
	SUIT FOR 55C AMB AT 1.00 SF					IP66				
<b>SER.NO.</b>				<b>MOTOR WEIGHT</b>	965					

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-ft <sup>2</sup>

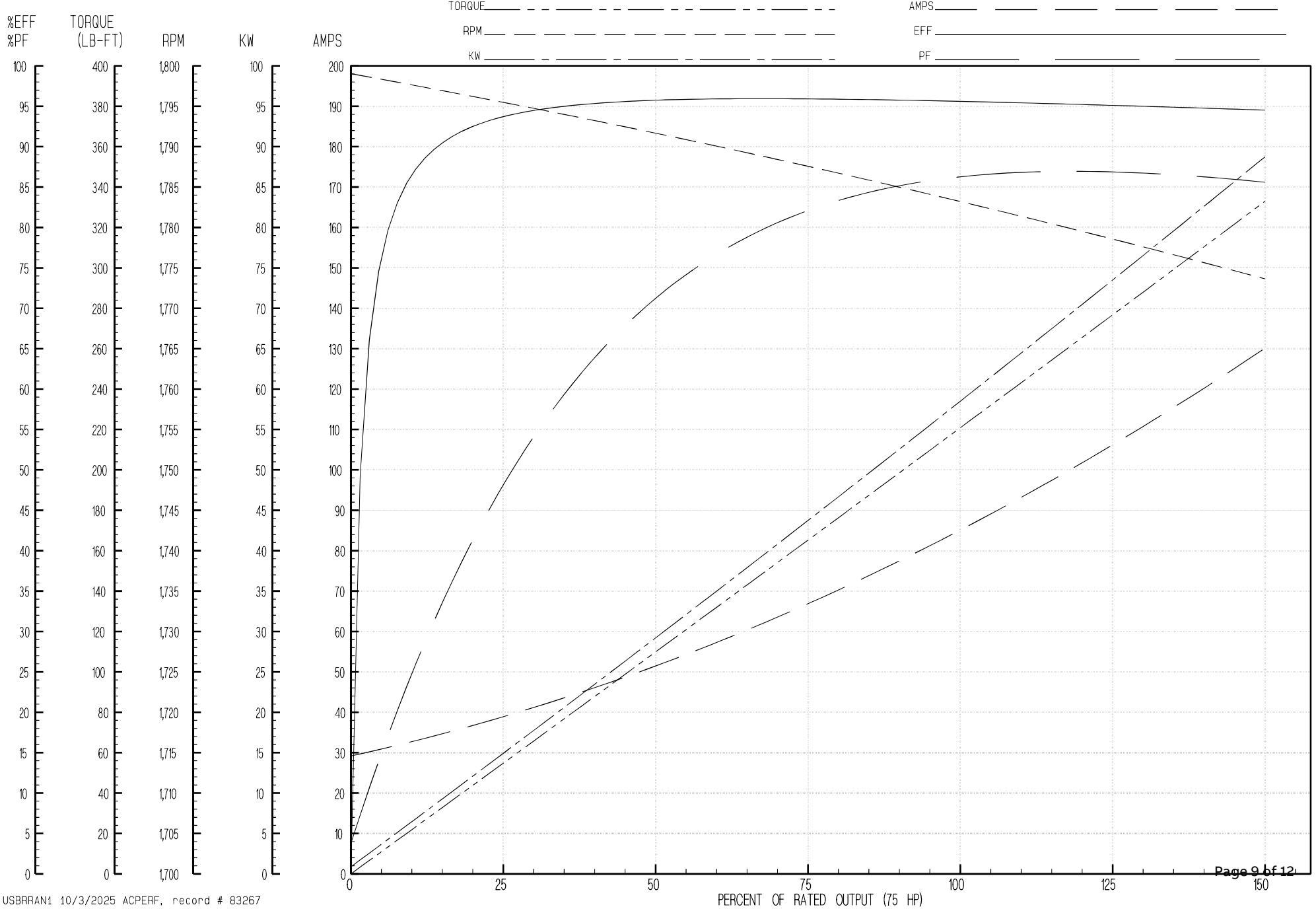
Load Characteristics 460 V, 60 Hz, 75 HP

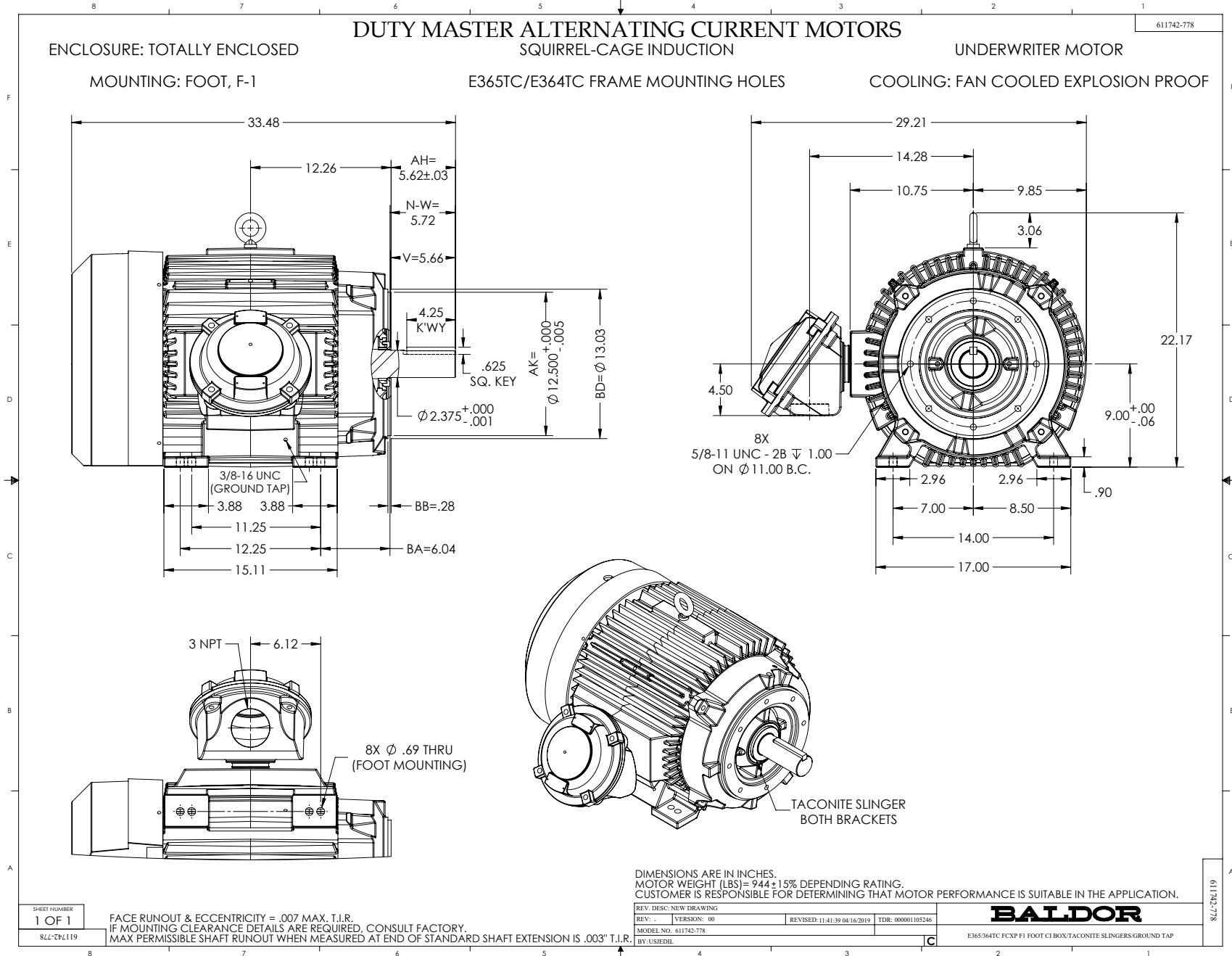
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	3	51	73	81	85	86	86	0
Efficiency	0	93.5	95.6	95.9	95.6	95.1	94.4	0
Speed	1798.9	1795.7	1791.7	1787.7	1782.8	1778.9	1773.6	0
Line amperes	30.8	36.9	50.3	67.3	86.2	107	129	0

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

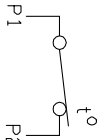
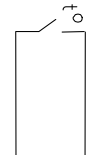
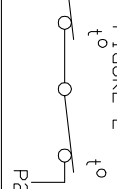
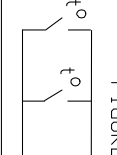
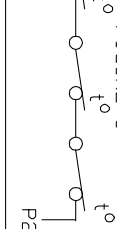
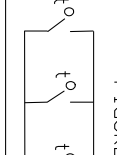
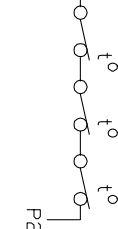
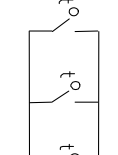
Typical performance - not guaranteed values.





# 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

REV. DESC: LOADED TO BUS		
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FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

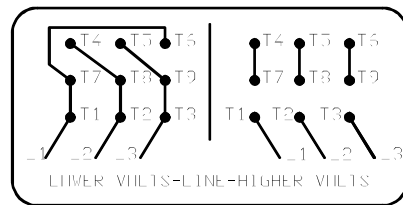
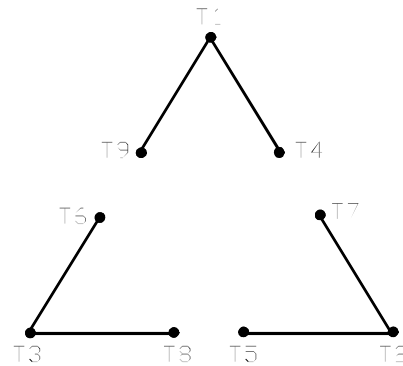
**BALDOR**

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: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: -		©

**BALDOR - RELIANCE®**

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH 1 of 1