



---

# Customer information packet

## CPX36566T

50HP, 1185RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F

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
Motor Letter Type	Three Phase
Output @ Frequency	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	CLI GP C,D; CLII GP E,F,G
XP Division	Division I
Agency Approvals	CSA UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	124.000 A @ 230.0 V 132.000 A @ 208.0 V 62.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	62.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

## Part detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4262
Layout	617428-024
Eff. date	05-31-2023
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	10-03-2022

<b>Lifting Lugs</b>	<b>Standard Lifting Lugs</b>
<b>Max Speed</b>	1800 rpm
<b>Motor Lead Quantity/Wire Size</b>	3 @ 4 AWG
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	A3668M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	6
<b>Overall Length</b>	33.48 IN
<b>Power Factor</b>	81
<b>Product Family</b>	General Industrial
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Service Factor</b>	1.15
<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>	1185 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
<b>XP Temp Code</b>	T3C

**Nameplate**

<b>NP3140L</b>											
<b>SPEC NO.</b>	A36-8078-4262			<b>CAT.NO.</b>	CPX36566T				<b>FRAME</b>	365T	
<b>HP</b>	50	<b>VOLTS</b>	230/460		<b>PHASE</b>	3	<b>DESIGN</b>	B	<b>TYPE</b>	P	
<b>RPM</b>	1185	<b>AMPS</b>	124/62		<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>	18.71	<b>MAG CUR</b>	44/22		<b>RPM MAX</b>	1800			
<b>CT HZ</b>	6-60	<b>VT HZ</b>	0-60	<b>CHP HZ</b>	60-90		<b>NEMA-NOM-EFF</b>	94.1			
	SUIT FOR 55C AMB AT 1.00 SF					IP66					
<b>SER.NO.</b>				<b>MOTOR WEIGHT</b>	908						

---

**000692000FX**

---



---

---

**000613006PC**

---

**CLASS I GROUP** C D X **NO.****CLASS II GROUP** E F G**OPERATING TEMP CODE** T3C

---

---

**NP2496L**

---

POLYREX EM

---

## AC induction motor performance data

Record #95973 - Typical performance - not guaranteed values

Winding	A36WG4262
Type	A3668M
Enclosure	TEFC

## Nameplate data

Rated Output			50
Volts			230/460
Full Load Amps			124/62
R.P.M.			1185
Hz	60	Phase	3
KVA Code			G
Service Factor (S.F.)			1
NEMA Nom. Eff.	94.1	Power Factor	81
Duty			CONT
S.F. Amps			

## 460 V, 60 Hz:

## High Voltage Connection

Full Load Torque	222.9 LB-FT
Start Configuration	direct on line
Breakdown Torque	540 LB-FT
Pull-up Torque	319 LB-FT
Locked-rotor Torque	394 LB-FT
Starting Current	366 A
No-load Current	22
Line-line Res. @ 25°C	0.11998 $\Omega$
Temp. Rise @ Rated Load	64°C
Temp. Rise @ S.F. Load	0°C
Locked-rotor Power Factor	28
Rotor inertia	22 lb-ft <sup>2</sup>

## Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	49	69	77	81	82	81	0
Efficiency	0	91.2	94	94.4	94.1	93.4	92.4	0
Speed	1199	1196.1	1192.8	1188.9	1185	1180.2	1174.8	0
Line amperes	22	26.8	36.3	48.2	61.9	76.9	93.6	0

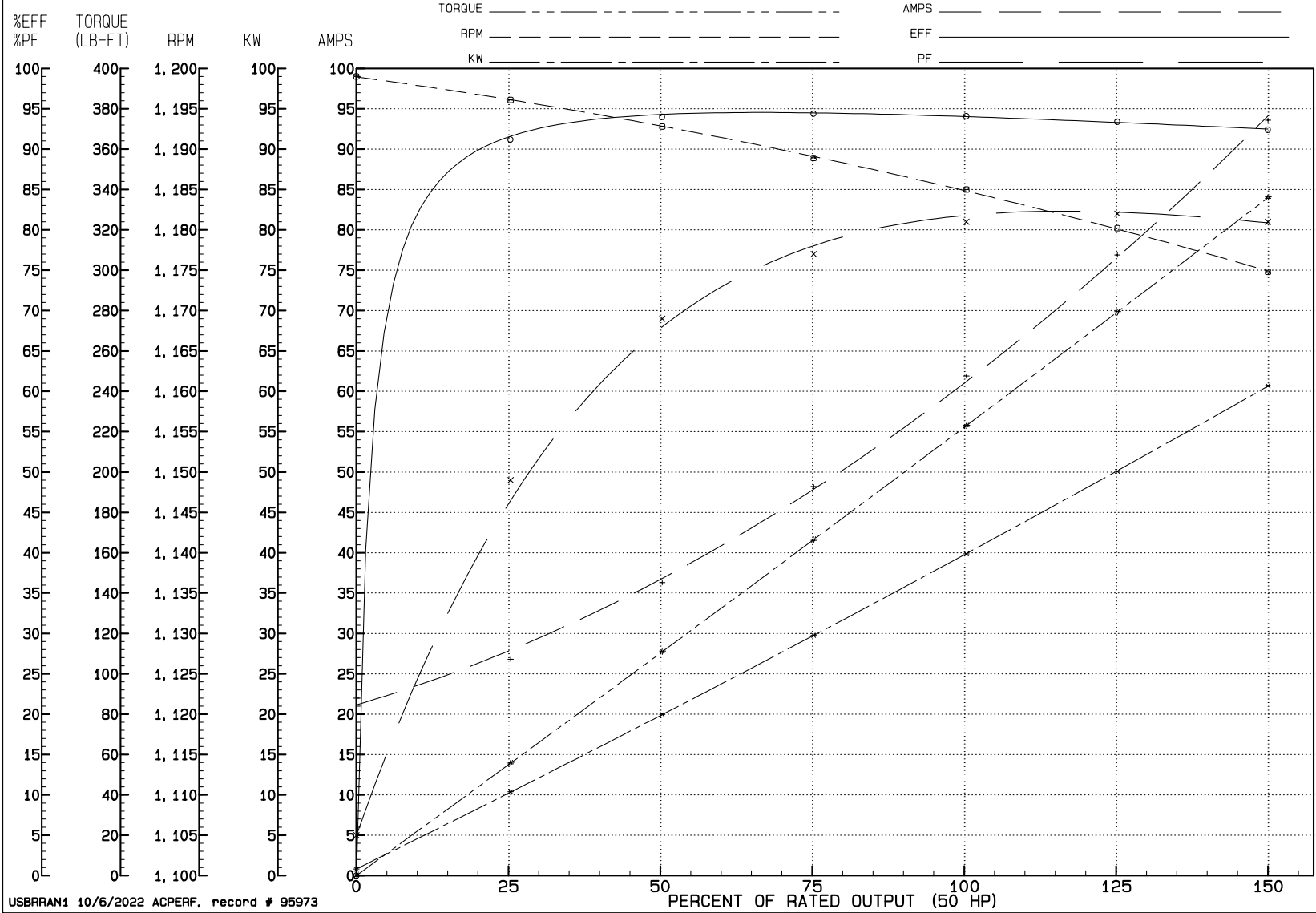


# REVIEW

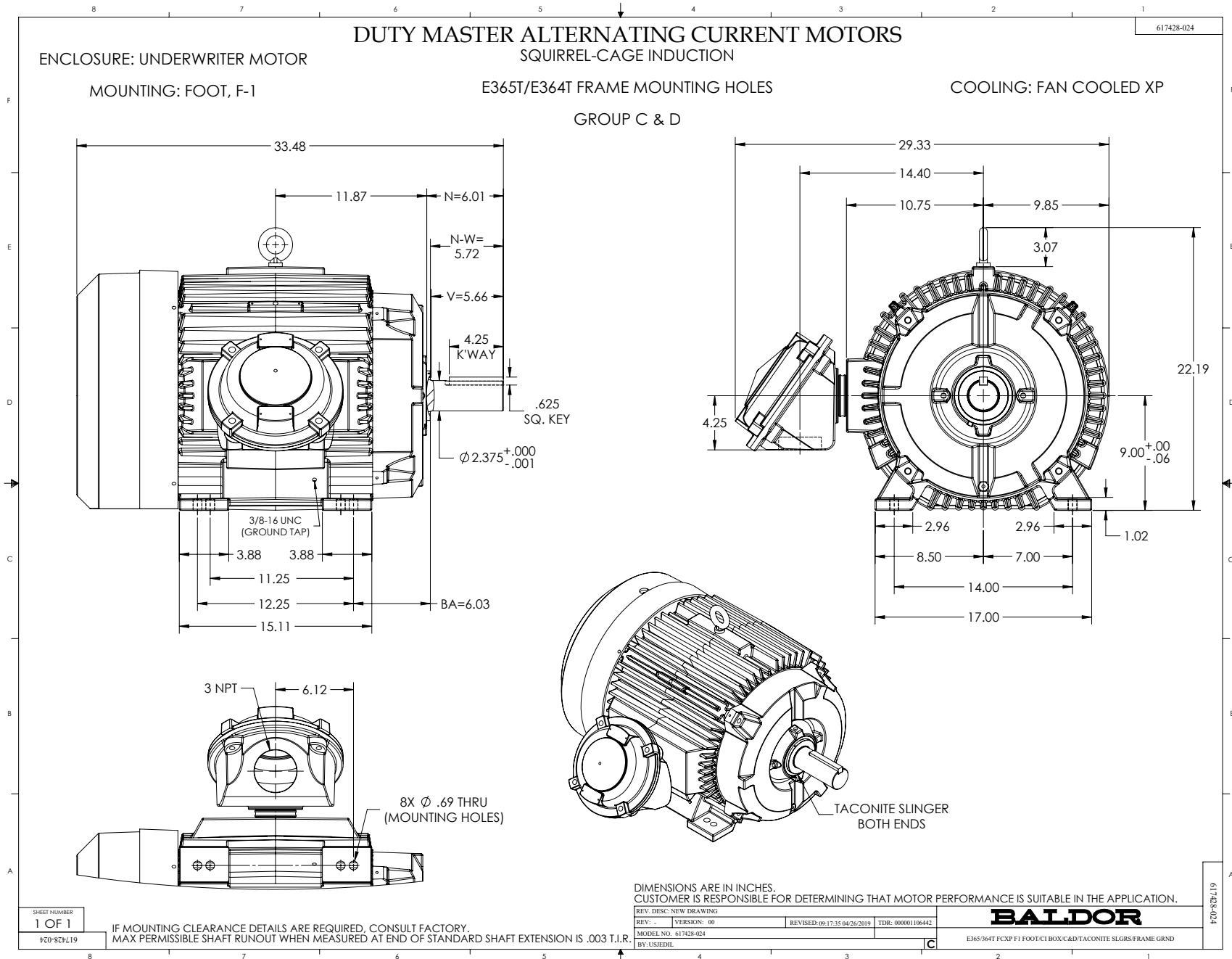
WINDING # A36WG4262

50 HP 3 PH 60 HZ 1185 RPM 460 V A3668M

TORQUES (LB-FT): P0=540.00 PU=319.00 LR=394.00 LRA=366.00

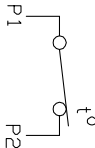
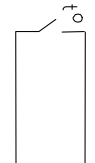
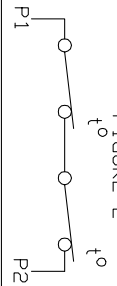
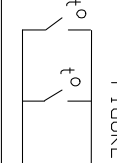
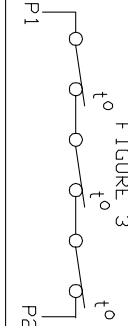
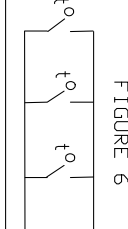
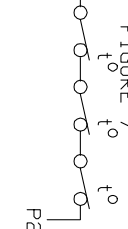
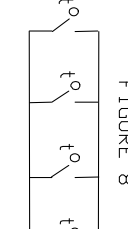


USBRRAN1 10/6/2022 ACPERF, record # 95973



# 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		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

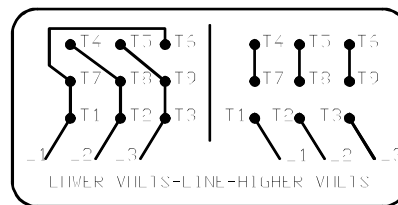
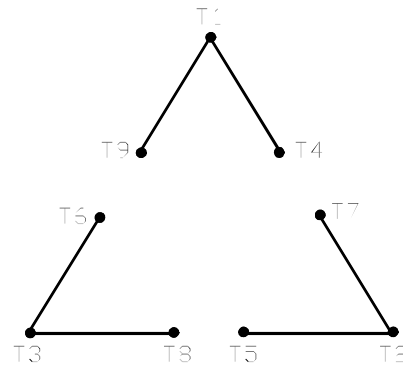
**BALDOR**

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: 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