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# Customer information packet

## CEWDM4312T

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

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	365TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
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
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG

## Part detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4262
Layout	617428-348
Eff. date	01-12-2023
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	10-03-2022

<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>	Washdown Features
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<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>	None

**Nameplate**

**NP2496L**



**NP2428L**

<b>SPEC NO.</b>	A36-8075-4262	<b>CAT.NO.</b>	CEWDM4312T	<b>FRAME</b>	365TC
<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>	1.15
<b>DRIVE END BEARING</b>	65BC03JGG30A	<b>DUTY</b>	CONT	<b>INSUL.CLASS</b>	F
<b>OPP D.E. BEARING</b>	65BC03JGG30A	<b>ENCL</b>	TEFC	<b>CODE</b>	G
<b>SER.NO.</b>		<b>POWER FACTOR</b>	81	<b>NEMA-NOM-EFFICIENCY</b>	94.1
	10:1 CT AND 10:1 VT ON VPWM			<b>MAX CORR KVAR</b>	15.8
	INVERTER, 1.00SF			<b>GUARANTEED EFFICIENCY</b>	93
	IP55			<b>NEMA NOM/CSA QUOTED EFF</b>	
				<b>MOTOR WEIGHT</b>	908

## AC induction motor performance data

Record #95278 - 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
S.F.			1.15
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	79°C
Locked-rotor Power Factor	28
Rotor inertia	22 lb-ft <sup>2</sup>

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

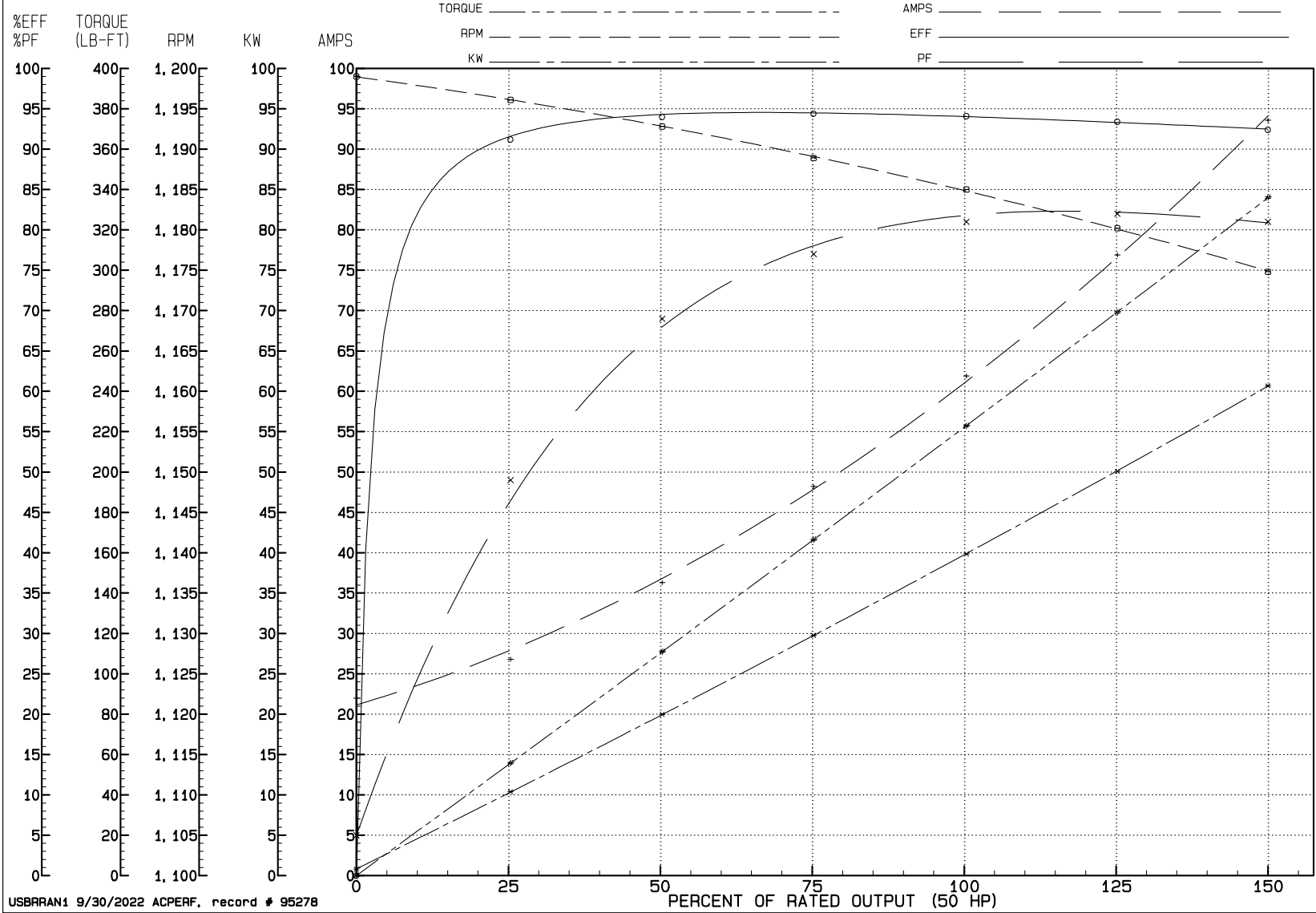
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	5	49	69	77	81	82	81	82
Efficiency	0	91.2	94	94.4	94.1	93.4	92.4	93.7
Speed	1199	1196.1	1192.8	1188.9	1185	1180.2	1174.8	1182
Line amperes	22	26.8	36.3	48.2	61.9	76.9	93.6	70.9

# 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

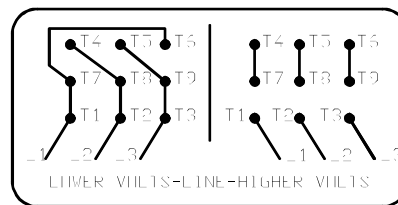
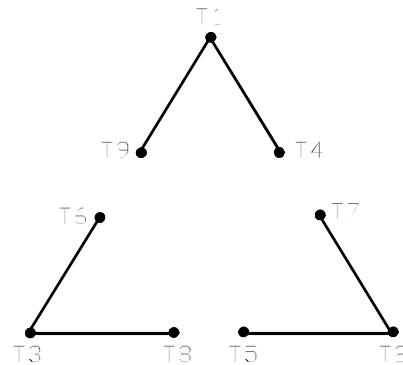


USBRRAN1 9/30/2022 ACPERF, record # 95278



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
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CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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