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# Customer information packet

## CECP4110T

40HP, 1775RPM, 3PH, 60HZ, 324TC, 1254M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

Enclosure	TEFC
Frame	324TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	0.8
Current @ Voltage	96.000 A @ 230.0 V 48.000 A @ 460.0 V 102.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated

## Part detail

Revision	F
Type	AC
Mech. spec.	12G214
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LYG214
Eff. date	08-01-2023
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	12-13-2017

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	82
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed

<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP3241**

<b>CAT.NO.</b>	CECP4110T	<b>P/N</b>		<b>ENCLOSURE</b>	TEFC
<b>SPEC.</b>	12G214Y276G1	<b>CC</b>	010A	<b>FRAME</b>	324TC
<b>HP</b>	40	<b>CLASS</b>	F	<b>HZ</b>	60
<b>RPM</b>	1775	<b>RPM MAX</b>	2700	<b>PH</b>	3
<b>VOLT</b>	230/460	<b>MOTOR WEIGHT</b>	628	<b>DES</b>	A
<b>AMP</b>	96/48	<b>SER.F.</b>	1.15	<b>PF</b>	82
<b>RATING</b>	40C AMB-CONT	<b>NEMA-NOM-EFF</b>	94.1	<b>ODE BRG</b>	6312
				<b>DE BRG</b>	6312
				<b>GREASE</b>	POLYREX EM
				<b>INV.TYPE</b>	PWM
<b>TEMP CODE</b>	T3	<b>INVERTER-TEMP-CODE</b>	200		
<b>TEMP =</b>	200	<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>CT HZ FROM</b>	0.8	<b>CT HZ TO</b>	60		
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>		<b>HTR-WATTS</b>	
				<b>MAX. SPACE HEATER TEMP.</b>	
				<b>VT HZ FROM</b>	0
				<b>VT HZ TO</b>	60

**AC Induction Motor Performance Data**

Record # 68449

Typical performance - not guaranteed values

<b>Winding: 12WGY276-R036</b>		<b>Type: 1254M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	40		<b>Full Load Torque</b>	118 LB-FT	
<b>Volts</b>	230/460		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	96/48		<b>Breakdown Torque</b>	386 LB-FT	
<b>R.P.M.</b>	1775		<b>Pull-up Torque</b>	193 LB-FT	
<b>Hz</b>	<b>60 Phase</b>	3	<b>Locked-rotor Torque</b>	216 LB-FT	
<b>NEMA Design Code</b>	<b>A KVA Code</b>	H	<b>Starting Current</b>	338 A	
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	19.9 A	
<b>NEMA Nom. Eff.</b>	<b>94.1 Power Factor</b>	82	<b>Line-line Res. @ 25°C</b>	0.14898 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	54°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	64°C	
			<b>Locked-rotor Power Factor</b>	27.3	
			<b>Rotor inertia</b>	7.19 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 40 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	47	69	78	83	85	85	84
<b>Efficiency</b>	90.1	93.5	94.2	94.2	93.8	93.1	94
<b>Speed</b>	1793.5	1788	1782.5	1776.6	1770.7	1764.1	1773
<b>Line amperes</b>	22.9	29.5	38.4	48.1	59.2	70.8	54.8

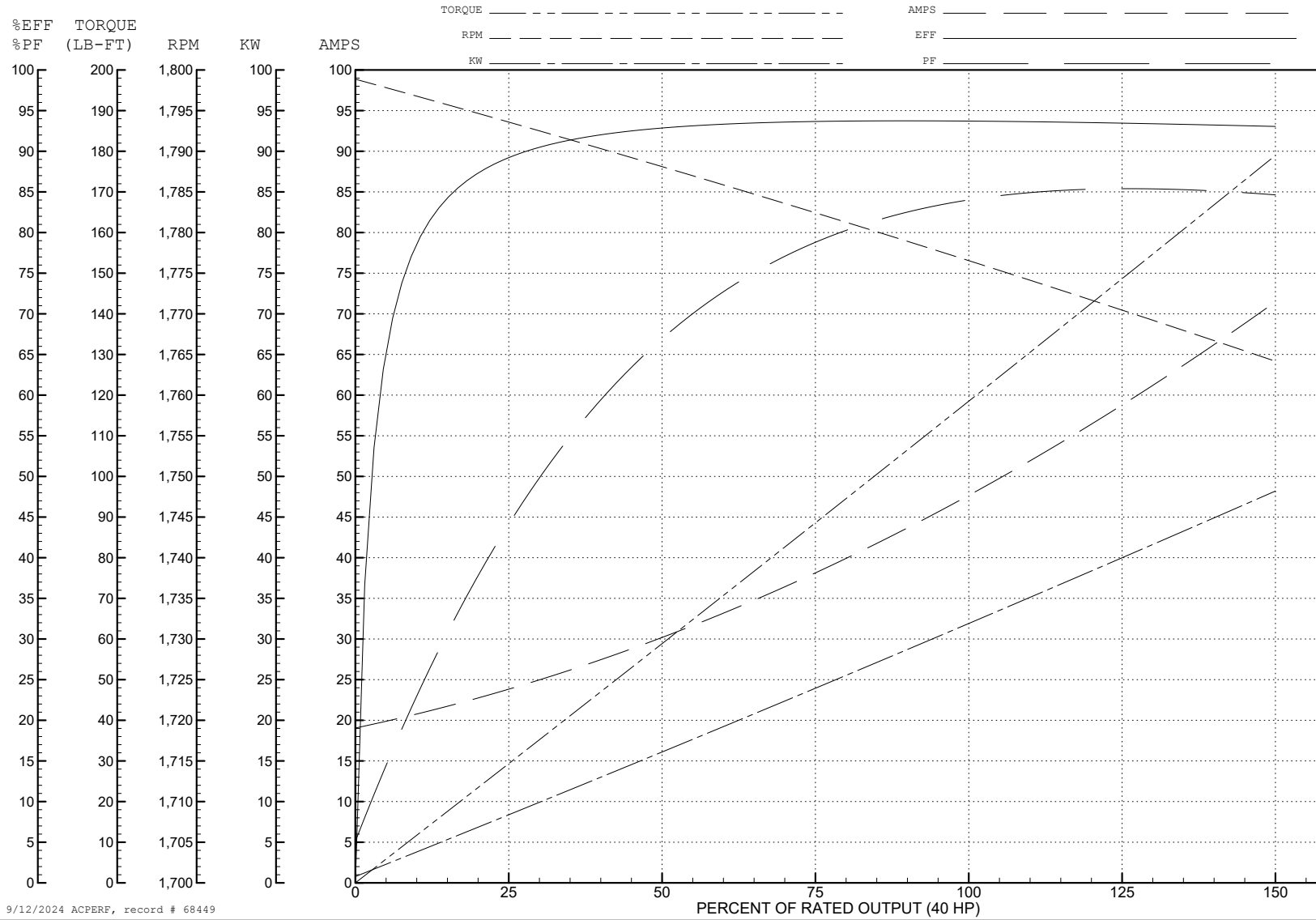
ABB Motors and Mechanical Inc.

WINDING # 12WGY276

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1775 RPM 460 V 1254M

TORQUES (LB-FT): PO=386 PU=193 LR=216 LRA=338

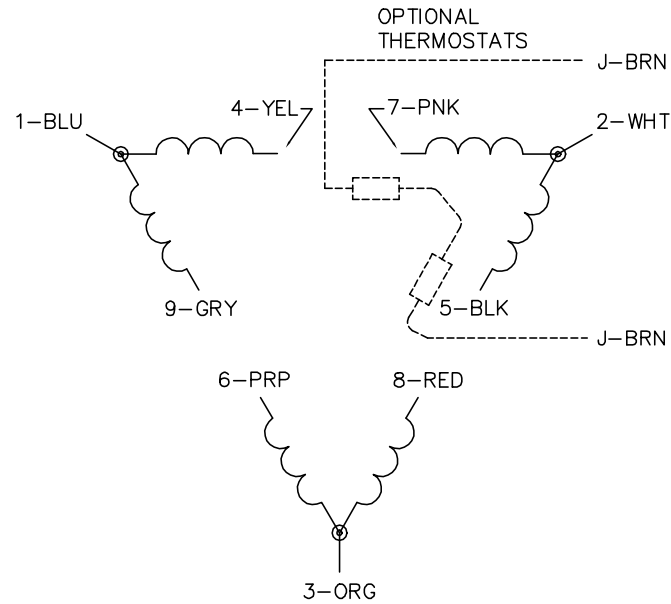


9/12/2024 ACPERF, record # 68449

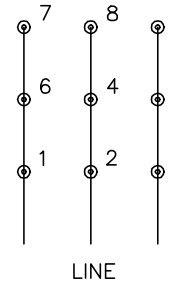




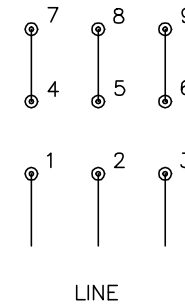
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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