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# Customer information packet

## VECP83661T-4

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

Enclosure	TEFC
Frame	182TC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.5
Current @ Voltage	4.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

## Part detail

Revision	X
Type	AC
Mech. spec.	06G105
Base	
Status	PRD/A
Elec. spec.	06WGX240
Layout	06LYG105
Eff. date	07-01-2022
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	10-05-2011

<b>Haz Area Temp Code</b>	T3C
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	4.1 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	2700 rpm
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	3 @ 16 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0632M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	16.69 IN
<b>Power Factor</b>	77
<b>Product Family</b>	Chem Process S/P 32-8 IEEE 841
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	1755 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

<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

**NP4328**

<b>CAT.NO.</b>	VECP83661T-4				
<b>SPEC.</b>	06G105X240G1				
<b>HP</b>	3 TE	<b>IP</b>	56		
<b>VOLTS</b>	460				
<b>AMPS</b>	4.1				
<b>R.P.M.</b>	1755				
<b>FRAME</b>	182TC	<b>HZ</b>	60	<b>PH</b>	3
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES.</b>	B
		<b>CLASS</b>	F		
<b>RATING</b>	40C AMB-CONT				
<b>SN</b>					
<b>DE</b>	6206	<b>ODE</b>	6206		
<b>NEMA NOM. EFF.</b>	89.5	<b>P.F.</b>	77		
<b>GUAR. MIN. EFF.</b>	87.5	<b>CC</b>	010A		
<b>T. CODE</b>	T3C	<b>TEMP=</b>	160		

**NP3186**

<b>SPEC.</b>	06G105X240G1		
<b>ABMA DE BRG</b>	30BC02XP30X		
<b>ABMA ODE BRG</b>	30BC02X30X		
<b>GREASE</b>	POLYREX EM		
<b>MOTOR WEIGHT</b>	117	<b>ROTOR BARS</b>	28
		<b>STATOR BARS</b>	36
<b>MAX. R.P.M.</b>	2700	<b>MAX. KVAR</b>	.94
<b>INV.TYPE</b>	PWM		
<b>T=</b>	160		
<b>CHP</b>	60	<b>TO</b>	90
<b>CT</b>	1.5	<b>TO</b>	60
<b>VT</b>	-0	<b>TO</b>	60
<b>HTR-VOLTS</b>	N/A	<b>HTR-AMPS</b>	N/A
<b>HTR-WATTS</b>		<b>MAX. SPACE HEATER TEMP.</b>	N/A

**AC Induction Motor Performance Data**

Record # 92246

Typical performance - not guaranteed values

Winding: 06WGX240-R041		Type: 0632M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: Single Voltage Motor</b>	
Rated Output (HP)	3	Full Load Torque	9.06 LB-FT	
Volts	460	Start Configuration	direct on line	
Full Load Amps	4.1	Breakdown Torque	33.1 LB-FT	
R.P.M.	1755	Pull-up Torque	18.2 LB-FT	
Hz	60 Phase	Locked-rotor Torque	20.4 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	29.8 A	
Service Factor (S.F.)	1.15	No-load Current	2.14 A	
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	3.93 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	35°C	
S.F. Amps		Temp. Rise @ S.F. Load	42°C	
		Locked-rotor Power Factor	41.4	
		Rotor inertia	0.298 lb-ft <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 3 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	70	77	81	83	79
Efficiency	83.2	88.3	89.8	89.5	89.1	87.7	89.3
Speed	1790	1779	1769	1757	1744	1730	1749
Line amperes	2.34	2.79	3.39	4.1	4.91	5.86	4.59

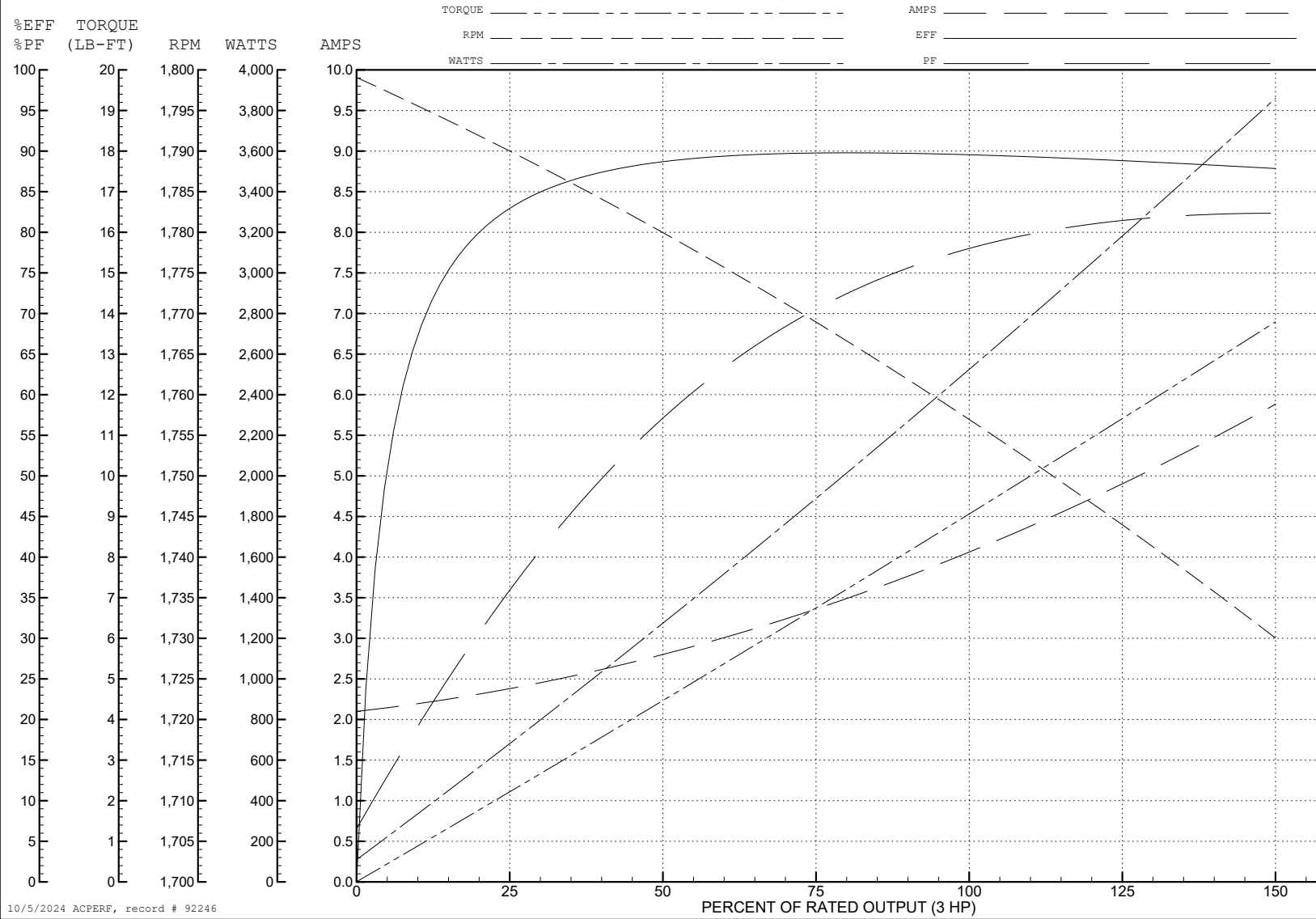
ABB Motors and Mechanical Inc.

WINDING # 06WX240

3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M

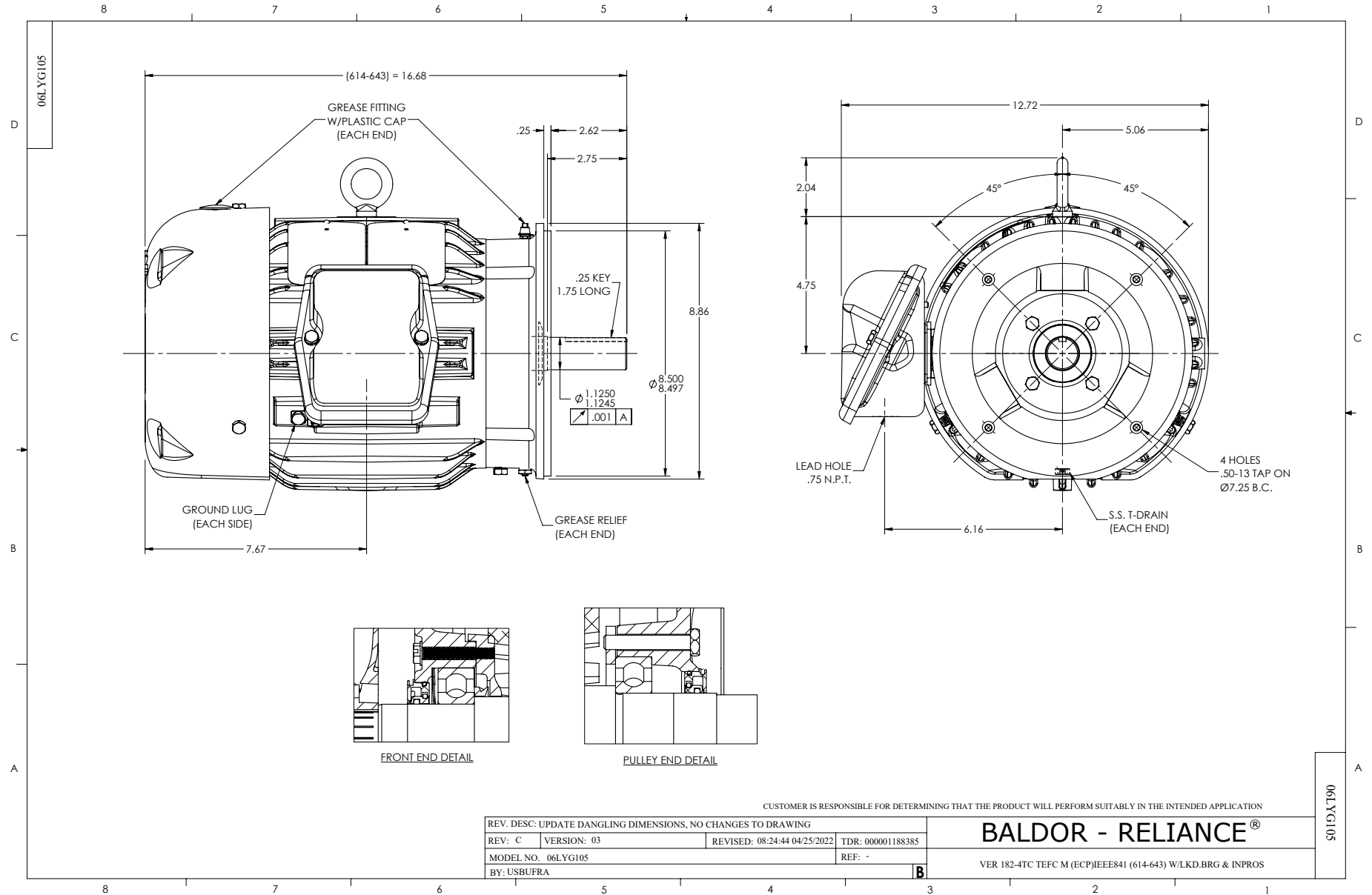
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8

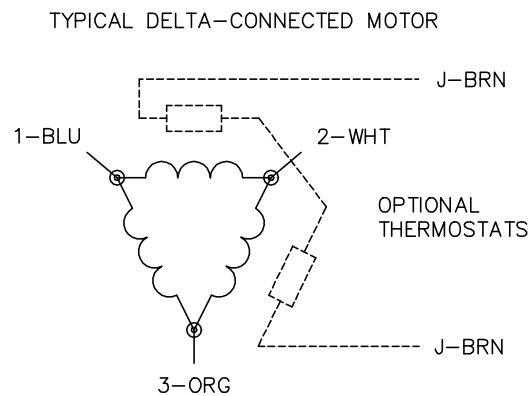
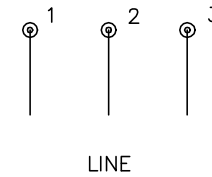
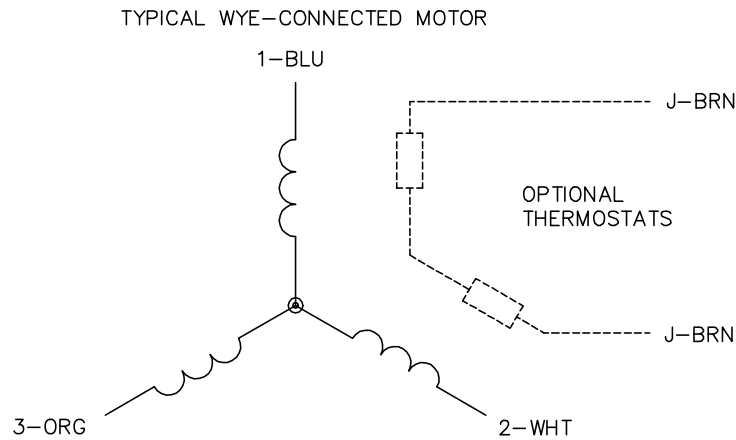


10/5/2024 ACPERF, record # 92246





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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