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# Customer information packet

## VECP83663T-4

5HP, 3440RPM, 3PH, 60HZ, 184TC, 0643M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

Enclosure	TEFC
Frame	184TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
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	6
Current @ Voltage	5.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

## Part detail

Revision	R
Type	AC
Mech. spec.	06G105
Base	
Status	PRD/A
Elec. spec.	06WGX822
Layout	06LYG105
Eff. date	01-11-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	10-03-2016

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.69 IN
Power Factor	94
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3440 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	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**

<b>NP4328</b>									
<b>CAT.NO.</b>	VECP83663T-4								
<b>SPEC.</b>	06G105X822G1								
<b>HP</b>	5 TE		<b>IP</b>	56					
<b>VOLTS</b>	460								
<b>AMPS</b>	5.7								
<b>R.P.M.</b>	3440								
<b>FRAME</b>	184TC		<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>	88.5		<b>P.F.</b>	94					
<b>GUAR. MIN. EFF.</b>	86.5	<b>CC</b>	010A						
<b>T. CODE</b>	T3C	<b>TEMP=</b>	160						

**NP3186**

<b>SPEC.</b>	06G105X822G1		
<b>ABMA DE BRG</b>	30BC02XP30X		
<b>ABMA ODE BRG</b>	30BC02X30X		
<b>GREASE</b>	POLYREX EM		
<b>MOTOR WEIGHT</b>	132	<b>ROTOR BARS</b>	28
		<b>STATOR BARS</b>	36
<b>MAX. R.P.M.</b>	5400	<b>MAX. KVAR</b>	0.15
<b>INV.TYPE</b>	PWM		
<b>T=</b>	160		
<b>CHP</b>	60	<b>TO</b>	90
<b>CT</b>	6	<b>TO</b>	60
<b>VT</b>	2.7	<b>TO</b>	60
<b>HTR-VOLTS</b>	N/A	<b>HTR-AMPS</b>	N/A
<b>HTR-WATTS</b>	N/A	<b>MAX. SPACE HEATER TEMP.</b>	N/A

**AC Induction Motor Performance Data**

Record # 59642

Typical performance - not guaranteed values

<b>Winding: 06WGX822-R001</b>		<b>Type: 0642M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	5	<b>Full Load Torque</b>	7.76 LB-FT		
<b>Volts</b>	460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	5.7	<b>Breakdown Torque</b>	33.5 LB-FT		
<b>R.P.M.</b>	3440	<b>Pull-up Torque</b>	13.4 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	22.9 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	45.4 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	1.07 A		
<b>NEMA Nom. Eff.</b>	88.5	<b>Line-line Res. @ 25°C</b>	2.61 Ω		
<b>Rating - Duty</b>	40C	<b>Temp. Rise @ Rated Load</b>	51°C		
<b>S.F. Amps</b>	AMB-CONT	<b>Temp. Rise @ S.F. Load</b>	65°C		
		<b>Locked-rotor Power Factor</b>	41.5		
		<b>Rotor inertia</b>	0.188 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 5 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>	78	90	93	94	93	97	93
<b>Efficiency</b>	90	92	90	89	86	84	87.4
<b>Speed</b>	3559	3523	3481	3439	3384	3327	3406
<b>Line amperes</b>	1.8	2.92	4.25	5.68	7.33	8.75	6.67

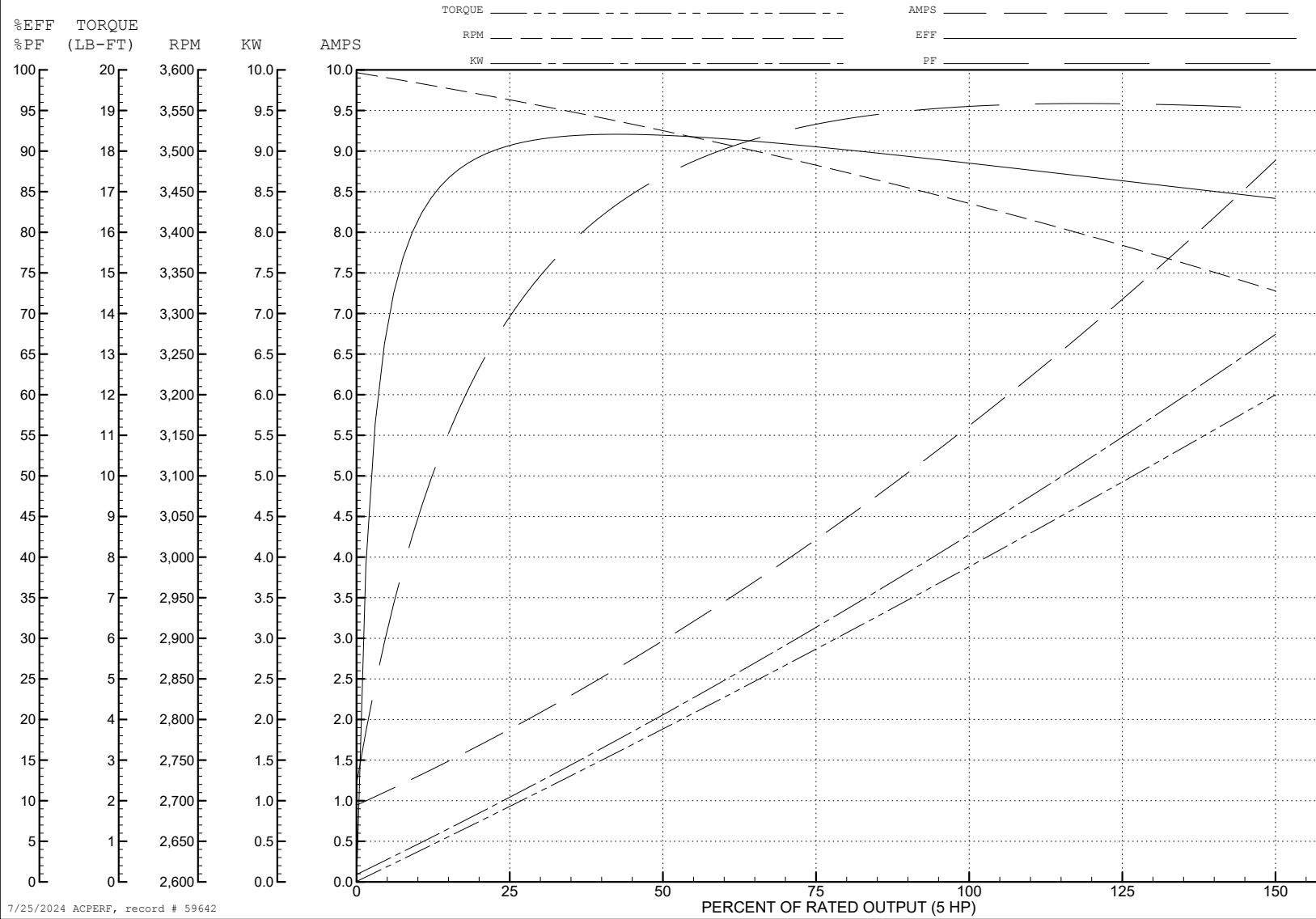
ABB Motors and Mechanical Inc.

WINDING # 06WGX822

5 HP 3 PH 60 HZ 3440 RPM 460 V 0642M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=33.5 PU=13.4 LR=22.9 LRA=45.4



7/25/2024 ACPERF, record # 59642



**AC Induction Motor Performance Data**

Record # 59648

Typical performance - not guaranteed values

<b>Winding: 06WGX822-R001</b>		<b>Type: 0642M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>368 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	5	<b>Full Load Torque</b>	7.99 LB-FT		
<b>Volts</b>	460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	5.7	<b>Breakdown Torque</b>	21.34 LB-FT		
<b>R.P.M.</b>	3440	<b>Pull-up Torque</b>	8.58 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	14.61 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	J	<b>Starting Current</b>	36.32 A	
<b>Service Factor (S.F.)</b>		1.15	<b>No-load Current</b>	0.871 A	
<b>NEMA Nom. Eff.</b>	88.5 <b>Power Factor</b>	94	<b>Line-line Res. @ 25°C</b>	2.61 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	62°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	86°C	
			<b>Locked-rotor Power Factor</b>	41.5	
			<b>Rotor inertia</b>	0.188 lb-ft <sup>2</sup>	

**Load Characteristics 368 V, 60 Hz, 5 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>	88	93	94	94	91	90	92
<b>Efficiency</b>	91.7	91	88.4	85.1	80.5	73.9	82.6
<b>Speed</b>	3539	3483	3415	3339	3233	3065	3277
<b>Line amperes</b>	1.98	3.54	5.38	7.46	10.11	13.35	9.04

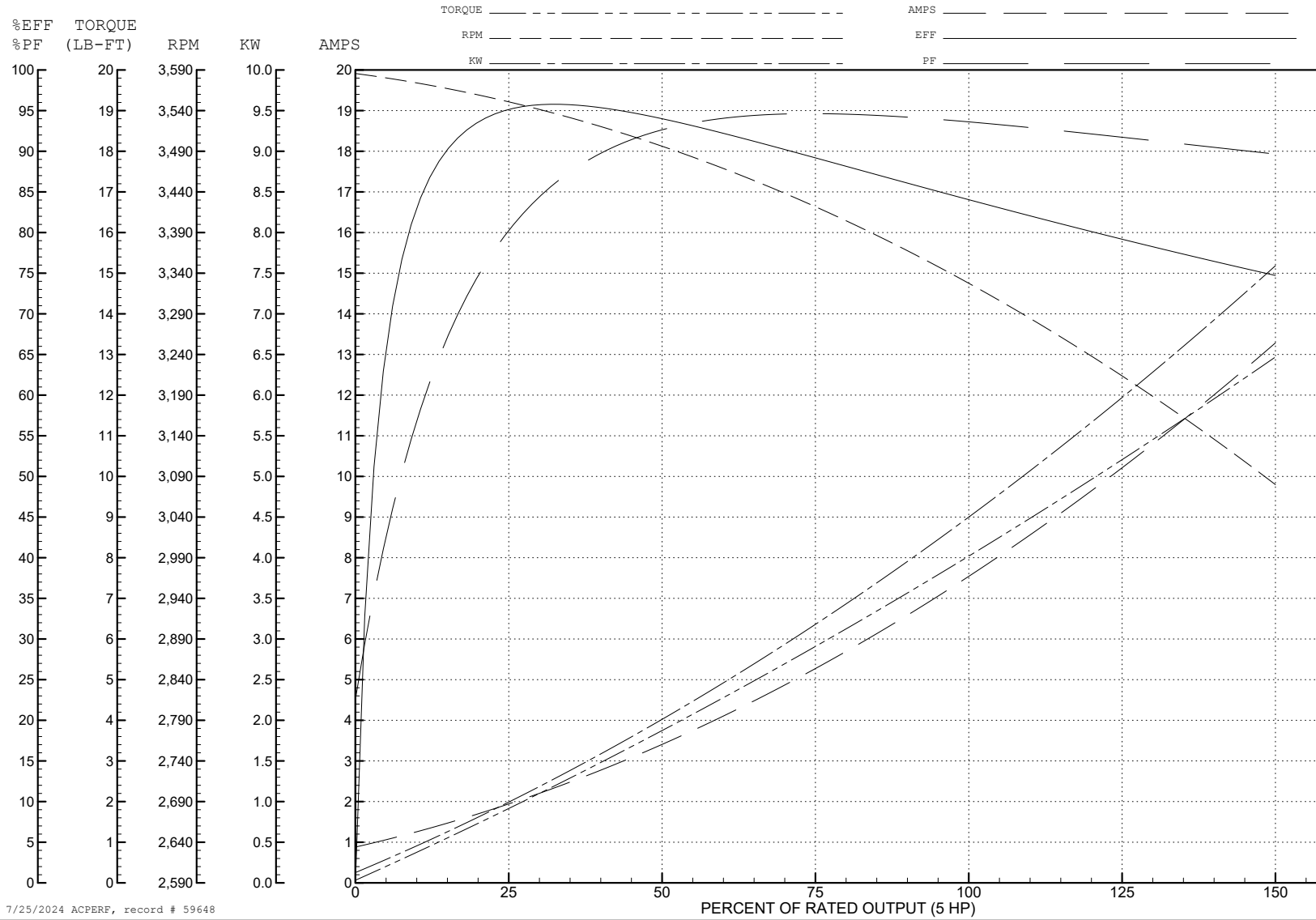
ABB Motors and Mechanical Inc.

WINDING # 06WGX822

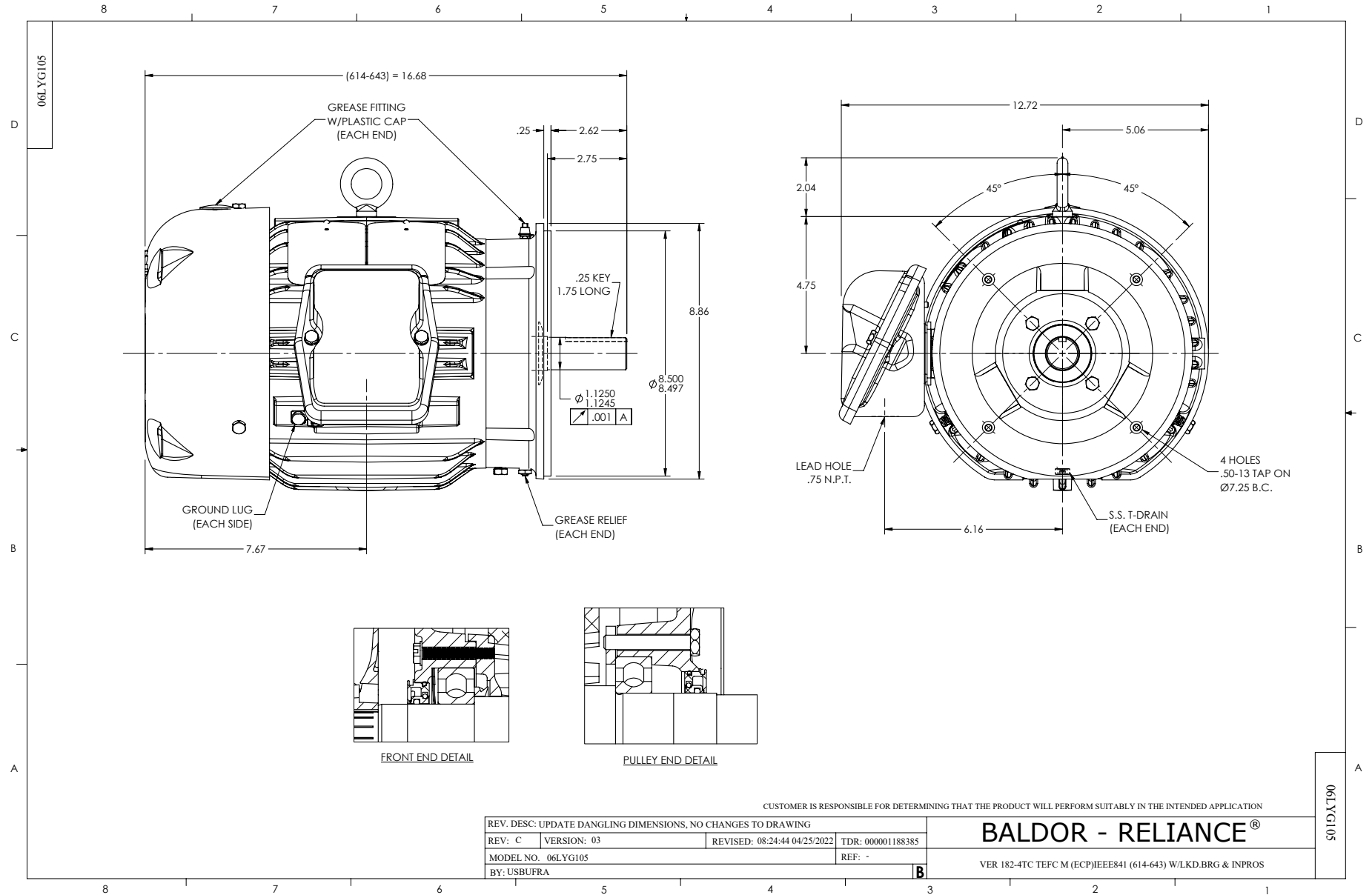
Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3440 RPM 368 V 0642M

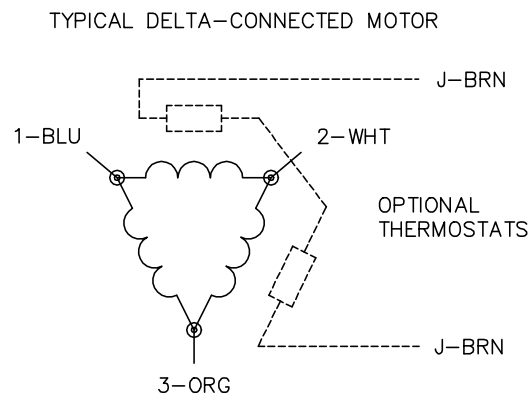
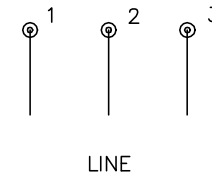
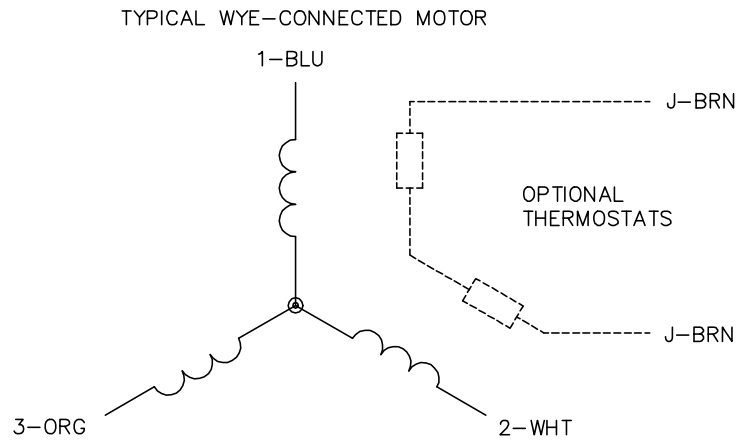
TORQUES (LB-FT): PO=21.34 PU=8.58 LR=14.61 LRA=36.32



7/25/2024 ACPERF, record # 59648



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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