

**BALDOR • RELIANCE**

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# Customer information packet

## EM3665T-5

42M 4P TEFC HOR 184T SUPER E

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	184T
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	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
Current @ Voltage	5.300 A @ 575.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.3 a
Insulation Class	F

## Part detail

Revision	E
Type	AC
Mech. spec.	06C101
Base	
Status	PRD/A
Elec. spec.	06WGX200
Layout	06LYC101
Eff. date	08-05-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	12-14-2018

<b>Inverter Code</b>	Inverter Ready
<b>IP Rating</b>	NONE
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<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>	0642M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	15.24 IN
<b>Power Factor</b>	79
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1750 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>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP3441L</b>									
<b>CAT.NO.</b>	EM3665T-5								
<b>SPEC.</b>	06C101X200G3								
<b>HP</b>	5								
<b>VOLTS</b>	575								
<b>AMP</b>	5.3								
<b>RPM</b>	1750								
<b>FRAME</b>	184T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES</b>	B	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	89.5	<b>PF</b>	79						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6206		<b>ODE</b>	6205					
<b>ENCL</b>	TEFC	<b>SN</b>							
<b>VPWM INVERTER READY</b>									
<b>CT6-60H(10:1)VT3-60H(20:1</b>									
	SFA 5.8								

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
36-1749	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 81830

Typical performance - not guaranteed values

Winding: 06WGX200-R001		Type: 0642M		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
Rated Output (HP)	5	Full Load Torque	15.03 LB-FT		
Volts	575	Start Configuration	direct on line		
Full Load Amps	5.3	Breakdown Torque	52.33 LB-FT		
R.P.M.	1750	Pull-up Torque	21.64 LB-FT		
Hz	60	Locked-rotor Torque	30.73 LB-FT		
NEMA Design Code	B	Starting Current	36.26 A		
Service Factor (S.F.)	1.15	No-load Current	2.34 A		
NEMA Nom. Eff.	89.5	Line-line Res. @ 25°C	4.27 Ω		
Rating - Duty	40C	Temp. Rise @ Rated Load	54°C		
S.F. Amps	AMB-CONT	Temp. Rise @ S.F. Load	67°C		
		Locked-rotor Power Factor	40.6		
		Rotor inertia	0.391 lb-ft <sup>2</sup>		

**Load Characteristics 575 V, 60 Hz, 5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	76	81	84	85	83
Efficiency	85.2	89.8	90.3	89.6	88.2	86.6	88.8
Speed	1788	1777	1764	1751	1736	1719	1742
Line amperes	2.61	3.26	4.13	5.14	6.31	7.59	5.84

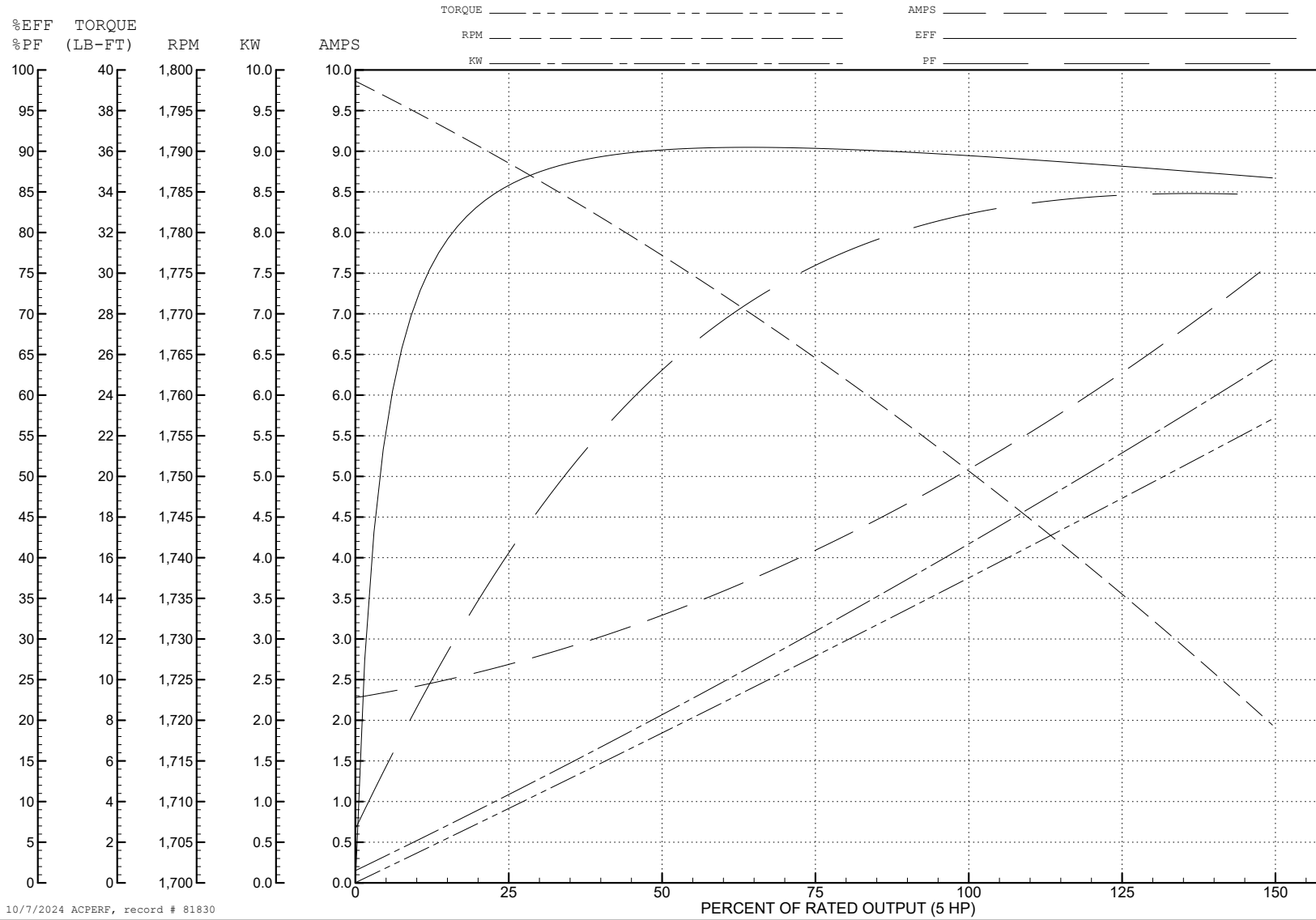
ABB Motors and Mechanical Inc.

WINDING # 06WGX200

5 HP 3 PH 60 HZ 1750 RPM 575 V 0642M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=52.33 PU=21.64 LR=30.73 LRA=36.26



10/7/2024 ACPERF, record # 81830

**AC Induction Motor Performance Data**

Record # 84795

Typical performance - not guaranteed values

Winding: 06WGX200-R001		Type: 0642M		Enclosure: TEFC			
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>				
Rated Output (KW)	3.7	Full Load Torque	14.85 N-M				
Volts	575	Start Configuration	direct on line				
Full Load Amps	5.3	Breakdown Torque	52.3 N-M				
R.P.M.	1750	Pull-up Torque	21.6 N-M				
Hz	60 Phase	3	Locked-rotor Torque	30.7 N-M			
NEMA Design Code	B	KVA Code	J	Starting Current	36.3 A		
Service Factor (S.F.)	1.15	No-load Current	2.34 A				
NEMA Nom. Eff.	89.5	Power Factor	79	Line-line Res. @ 25°C	4.27 Ω		
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	53°C			
S.F. Amps			Temp. Rise @ S.F. Load	66°C			
			Locked-rotor Power Factor	40.6			
			Rotor inertia	0.391 kg-m <sup>2</sup>			

**Load Characteristics 575 V, 60 Hz, 3.7 KW**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	81	84	85	83
Efficiency	62.6	66.2	66.4	66	65.1	63.8	65.5
Speed	1788	1777	1764	1751	1736	1720	1742
Line amperes	2.6	3.25	4.11	5.1	6.27	7.52	5.8



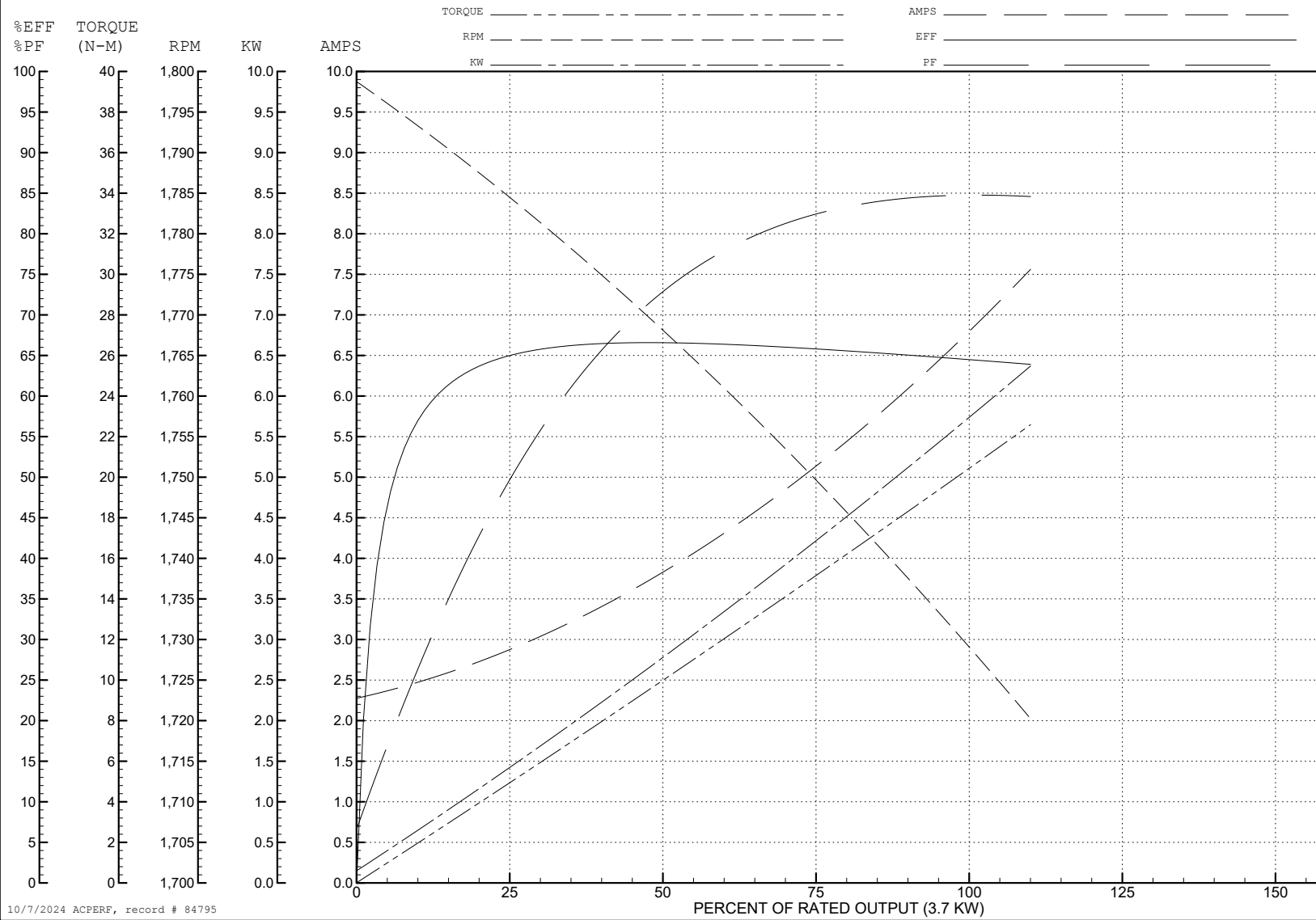
ABB Motors and Mechanical Inc.

WINDING # 06WGX200

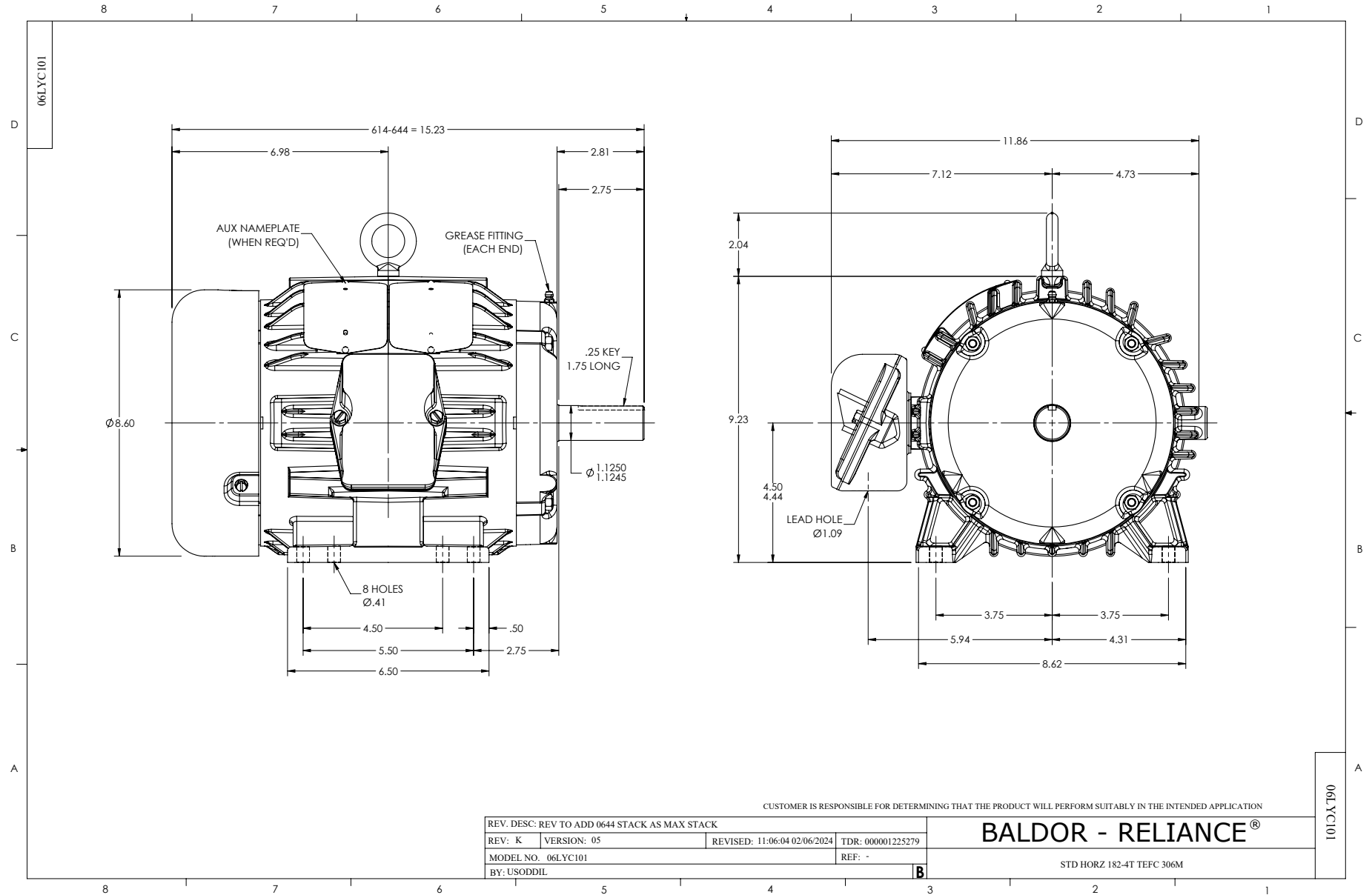
3.7 KW 3 PH 60 HZ 1750 RPM 575 V 0642M

Typical performance - not guaranteed values.

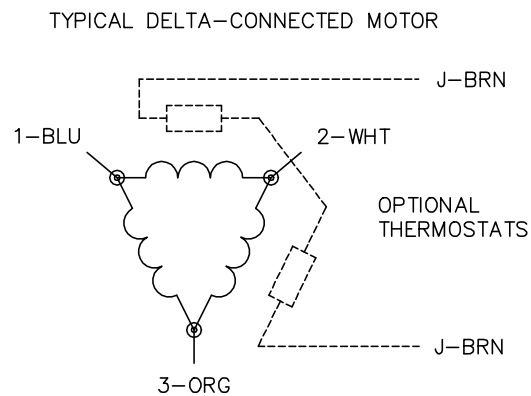
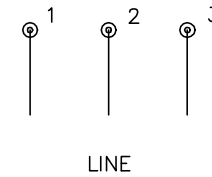
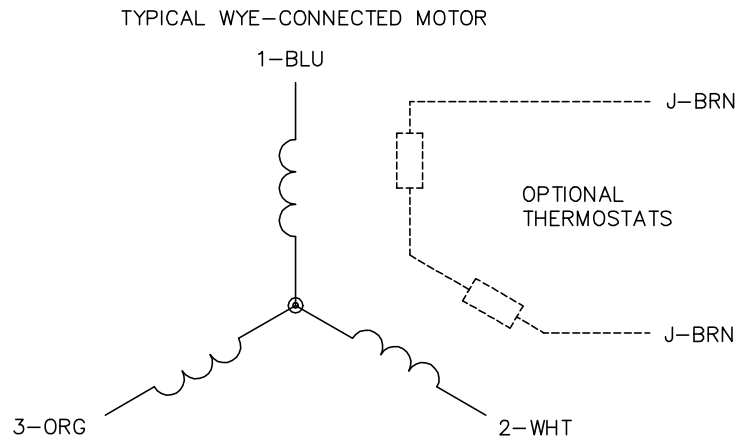
TORQUES (N-M) : PO=52.3 PU=21.6 LR=30.7 LRA=36.3



10/7/2024 ACPERF, record # 84795



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

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

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