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# Customer information packet

## EJMM3613T-5

5HP, 3450RPM, 3PH, 60HZ, 184JM, 3630M, TEFC, F1

Class - None

Division - Division II

## Specifications

Enclosure	TEFC
Frame	184JM
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
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	575.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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	4.700 A @ 575.0 V
Design Code	A
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
Heater Indicator	No Heater
High Voltage Full Load Amps	4.7 a
Insulation Class	F

## Part detail

Revision	F
Type	AC
Mech. spec.	36H017
Base	
Status	PRD/A
Elec. spec.	36WGS505
Layout	36LYH017
Eff. date	05-01-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	08-17-2015

<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	L
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<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>	3630M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	18.06 IN
<b>Power Factor</b>	91
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Tapped & Key
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.875 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>	3450 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>	EJMM3613T-5								
<b>SPEC.</b>	36H017S505G2								
<b>HP</b>	5								
<b>VOLTS</b>	575								
<b>AMP</b>	4.7								
<b>RPM</b>	3450								
<b>FRAME</b>	184JM		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	L	<b>DES</b>	A	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	88.5	<b>PF</b>	91						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6207		<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>									

**AC Induction Motor Performance Data**

Record # 31109

Typical performance - not guaranteed values

Winding: 36WGS505-R001		Type: 3630M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>	
Rated Output (HP)	5	Full Load Torque	7.64 LB-FT	
Volts	575	Start Configuration	direct on line	
Full Load Amps	4.7	Breakdown Torque	33.7 LB-FT	
R.P.M.	3450	Pull-up Torque	23.5 LB-FT	
Hz	60 Phase	Locked-rotor Torque	27.5 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	45.7 A	
Service Factor (S.F.)	1.15	No-load Current	1.34 A	
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	3.57 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	72°C	
S.F. Amps		Temp. Rise @ S.F. Load	88°C	
		Locked-rotor Power Factor	45	
		Rotor inertia	0.134 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	63	81	88	91	93	93	92
Efficiency	83.2	88.4	89.1	88.5	87	85.7	87.5
Speed	3569	3537	3504	3466	3428	3385	3443
Line amperes	1.79	2.61	3.58	4.68	5.81	7.05	5.36

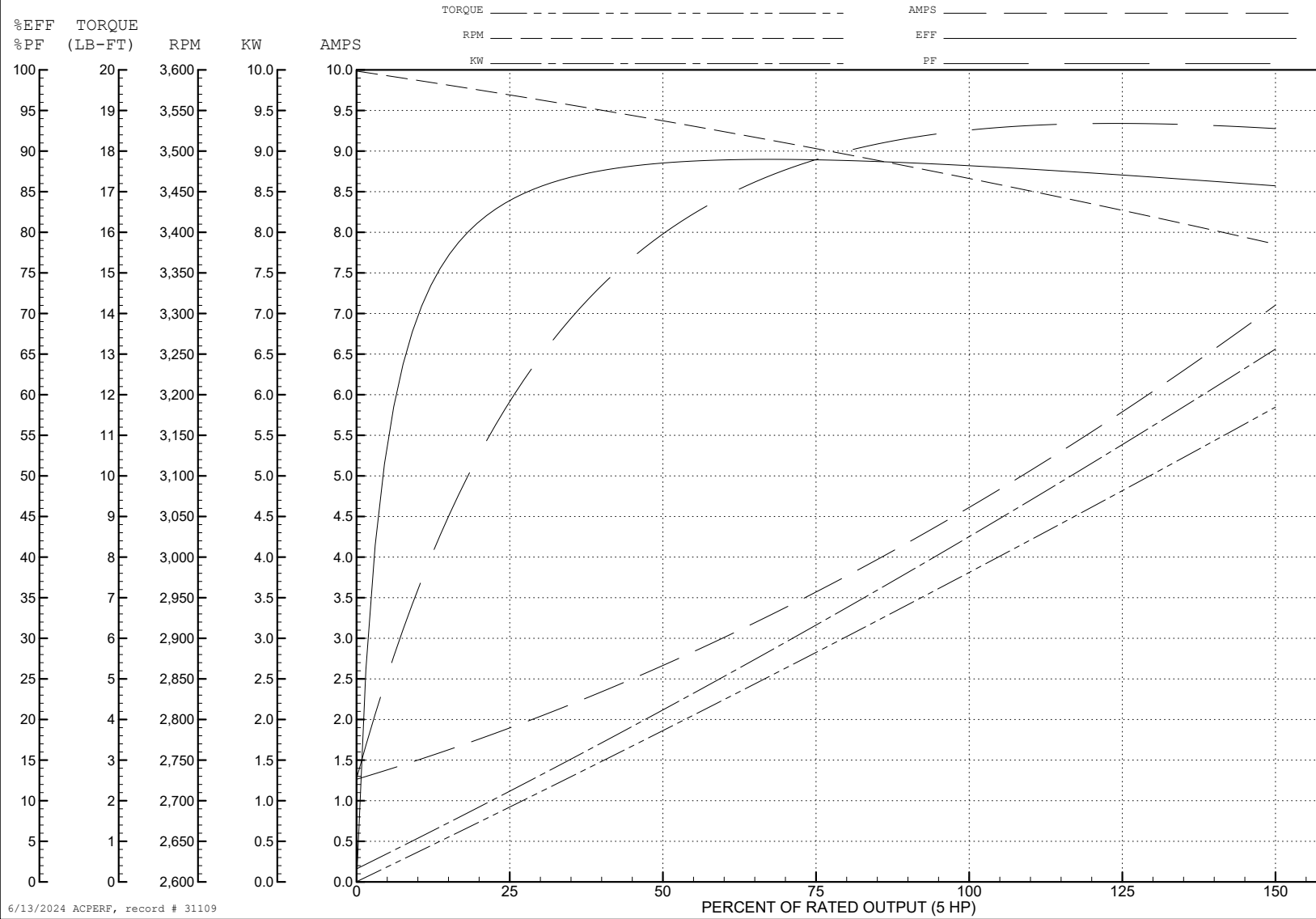
ABB Motors and Mechanical Inc.

WINDING # 36WGS505

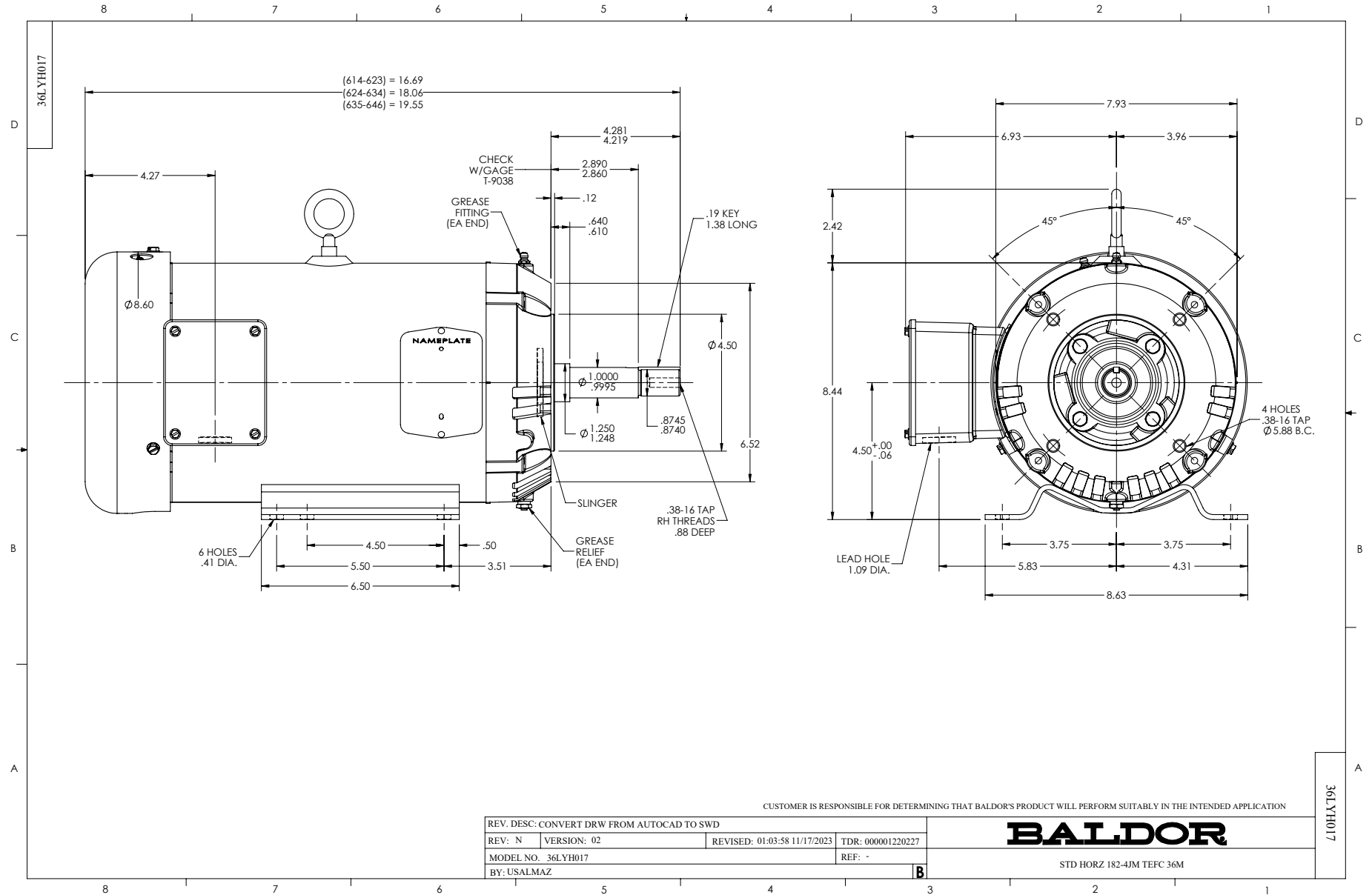
5 HP 3 PH 60 HZ 3450 RPM 575 V 3630M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=33.7 PU=23.5 LR=27.5 LRA=45.7



6/13/2024 ACPERF, record # 31109



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: -	© □	

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

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