



---

# Customer information packet

## FDEM3613T-5

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

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
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	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing

## Part detail

Revision	A
Type	AC
Mech. spec.	36Q173
Base	
Status	PRD/A
Elec. spec.	36WGS505
Layout	36LYQ173
Eff. date	05-23-2023
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	05-24-2018

<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>	16.55 IN
<b>Power Factor</b>	91
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Sealed Bearing
<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>	Shaft Slinger
<b>Speed</b>	3450 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<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>NP3126L</b>									
<b>CAT.NO.</b>	FDEM3613T-5								
<b>SPEC.</b>	36Q173S505G1								
<b>HP</b>	5								
<b>VOLTS</b>	575								
<b>AMP</b>	4.7								
<b>RPM</b>	3450								
<b>FRAME</b>	184T		<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>USABLE AT 208V</b>				N/A		
<b>DE</b>	6206		<b>ODE</b>	6205					
<b>ENCL</b>	TEFC	<b>SN</b>							
	-								

**AC Induction Motor Performance Data**

Record # 31109

Typical performance - not guaranteed values

<b>Winding: 36WGS505-R001</b>		<b>Type: 3630M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	5	<b>Full Load Torque</b>	7.64 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	4.7	<b>Breakdown Torque</b>	33.7 LB-FT		
<b>R.P.M.</b>	3450	<b>Pull-up Torque</b>	23.5 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	27.5 LB-FT		
<b>NEMA Design Code</b>	A	<b>Starting Current</b>	45.7 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	1.34 A		
<b>NEMA Nom. Eff.</b>	88.5	<b>Line-line Res. @ 25°C</b>	3.57 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	72°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	88°C		
		<b>Locked-rotor Power Factor</b>	45		
		<b>Rotor inertia</b>	0.134 LB-FT <sup>2</sup>		

**Load Characteristics 575 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>	63	81	88	91	93	93	92
<b>Efficiency</b>	83.2	88.4	89.1	88.5	87	85.7	87.5
<b>Speed</b>	3569	3537	3504	3466	3428	3385	3443
<b>Line amperes</b>	1.79	2.61	3.58	4.68	5.81	7.05	5.36

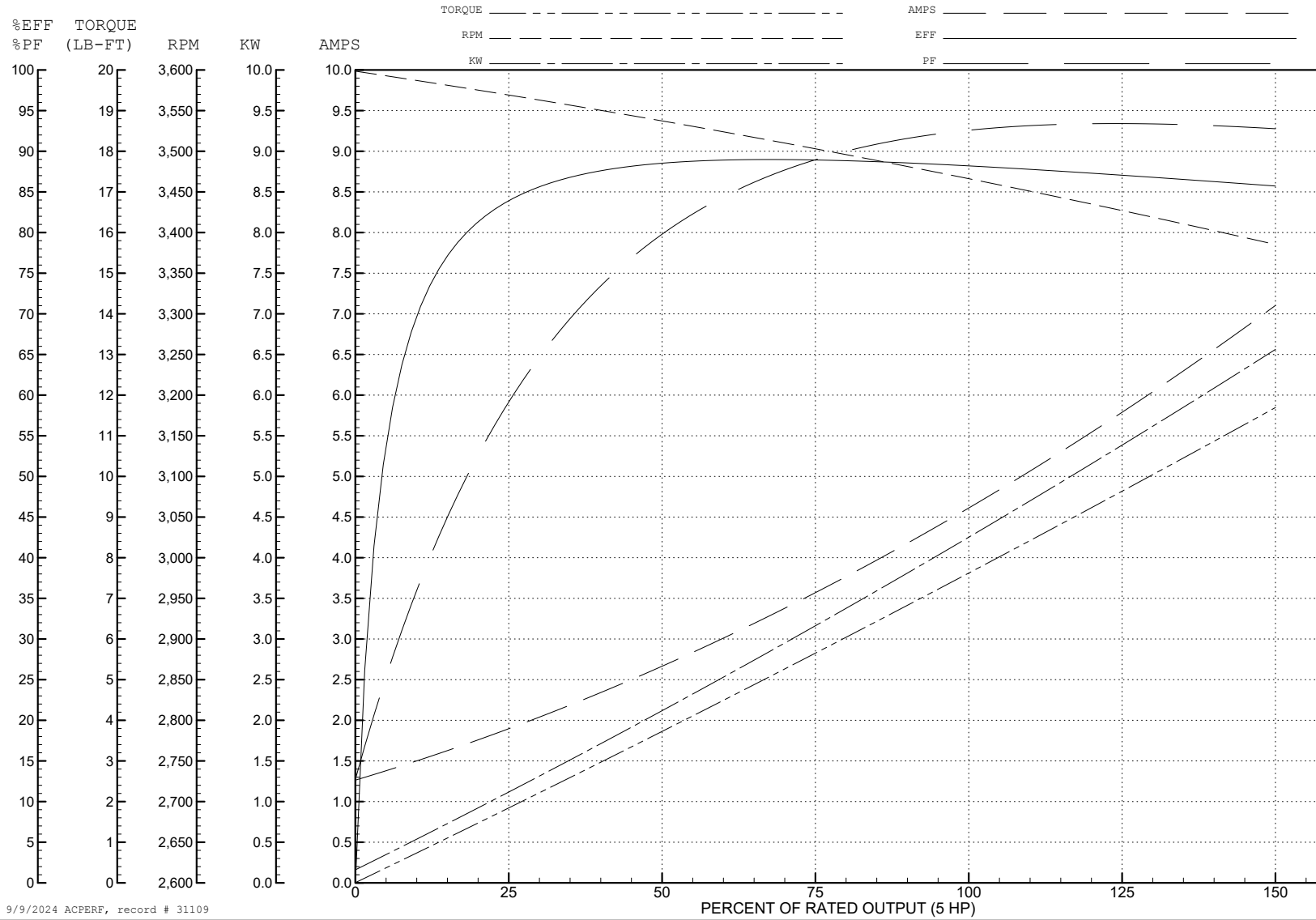
ABB Motors and Mechanical Inc.

WINDING # 36WGS505

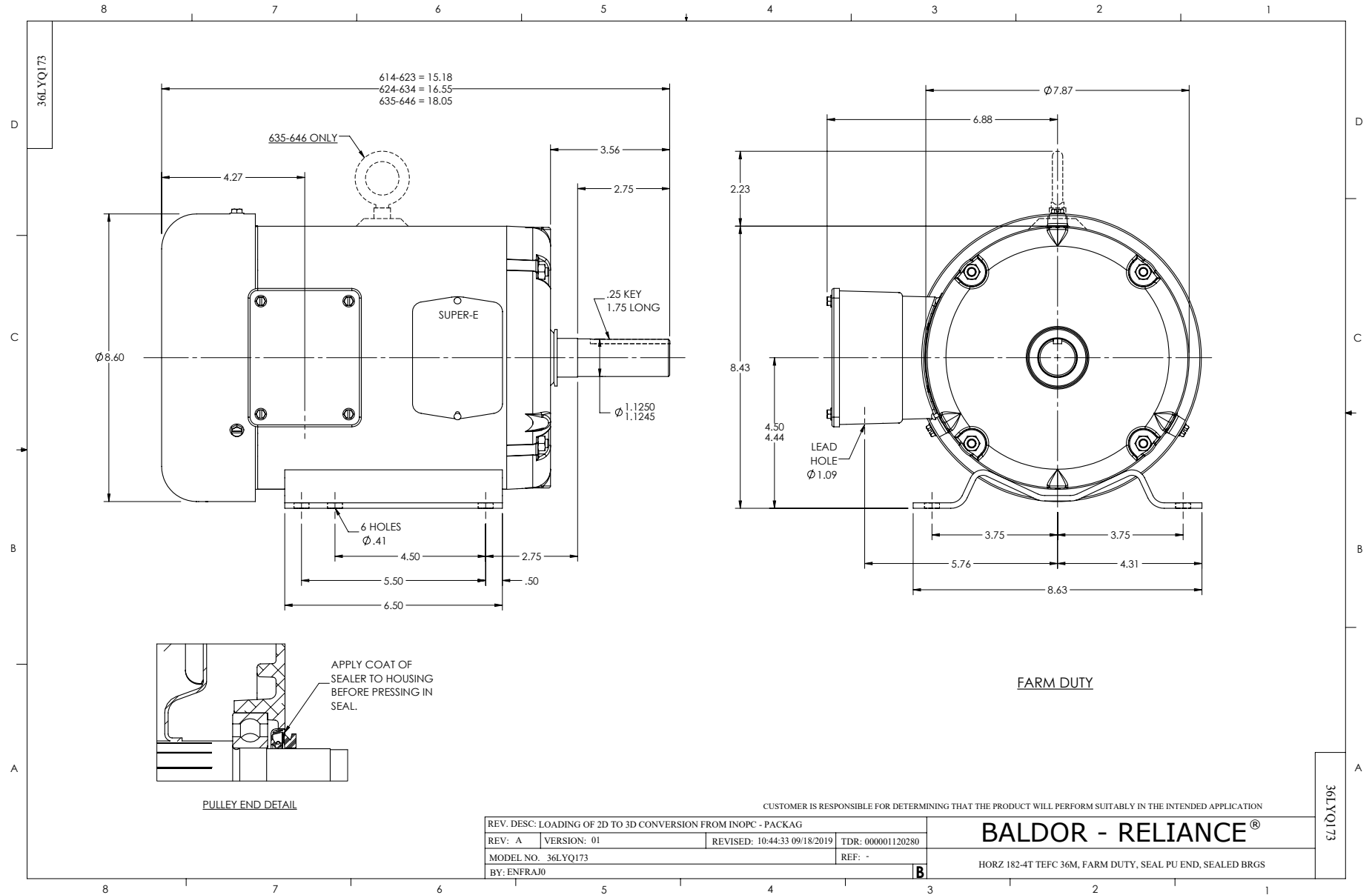
5 HP 3 PH 60 HZ 3450 RPM 575 V 3630M

Typical performance - not guaranteed values.

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



9/9/2024 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: -	© □	

**BALDOR - RELIANCE®**

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

SH 1 of 1