



Customer information packet

ERM3009

.5HP, 3450RPM, 3PH, 60HZ, 48, 3416M, OPEN, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	48
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	.800 A @ 460.0 V 1.600 A @ 230.0 V 1.900 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	H
Type	AC
Mech. spec.	34K015
Base	
Status	PRD/A
Elec. spec.	34WGS937
Layout	34LYK015
Eff. date	10-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-30-2014

High Voltage Full Load Amps	0.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	10.34 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP3155L									
CAT.NO.	ERM3009								
SPEC.	34K015S937G1								
HP	.5								
VOLTS	230/460								
AMP	1.6/.8								
RPM	3450								
FRAME	48		HZ	60		PH	3		
SER.F.	1.25	CODE	P	DES	B	CL	B		
F.L. AVG. EFF.	73.4	PF	78						
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	OPEN	SN							
	SFA 1.8/.9								

AC Induction Motor Performance Data

Record # 47468

Typical performance - not guaranteed values

Winding: 34WGS937-R002			Type: 3416M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		0.767 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		1.6/.8	Breakdown Torque		4.81 LB-FT		
R.P.M.		3450	Pull-up Torque		3.29 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	4.44 LB-FT
NEMA Design Code		B	KVA Code		P	Starting Current	7.88 A
Service Factor (S.F.)			1.25	No-load Current		0.48 A	
NEMA Nom. Eff.		73.4	Power Factor		78	Line-line Res. @ 25°C	22.08 Ω
Rating - Duty			40C AMB-CONT		Temp. Rise @ Rated Load		15°C
S.F. Amps			1.8/.9		Temp. Rise @ S.F. Load		17°C
					Locked-rotor Power Factor		66
					Rotor inertia		0.0148 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	61	72	78	83	86	83
Efficiency	54	67.8	73.9	76.9	78.3	78.8	78.3
Speed	3560	3537.1	3511.5	3484.8	3456.5	3427.6	3456
Line amperes	0.524	0.591	0.676	0.79	0.911	1.05	0.911

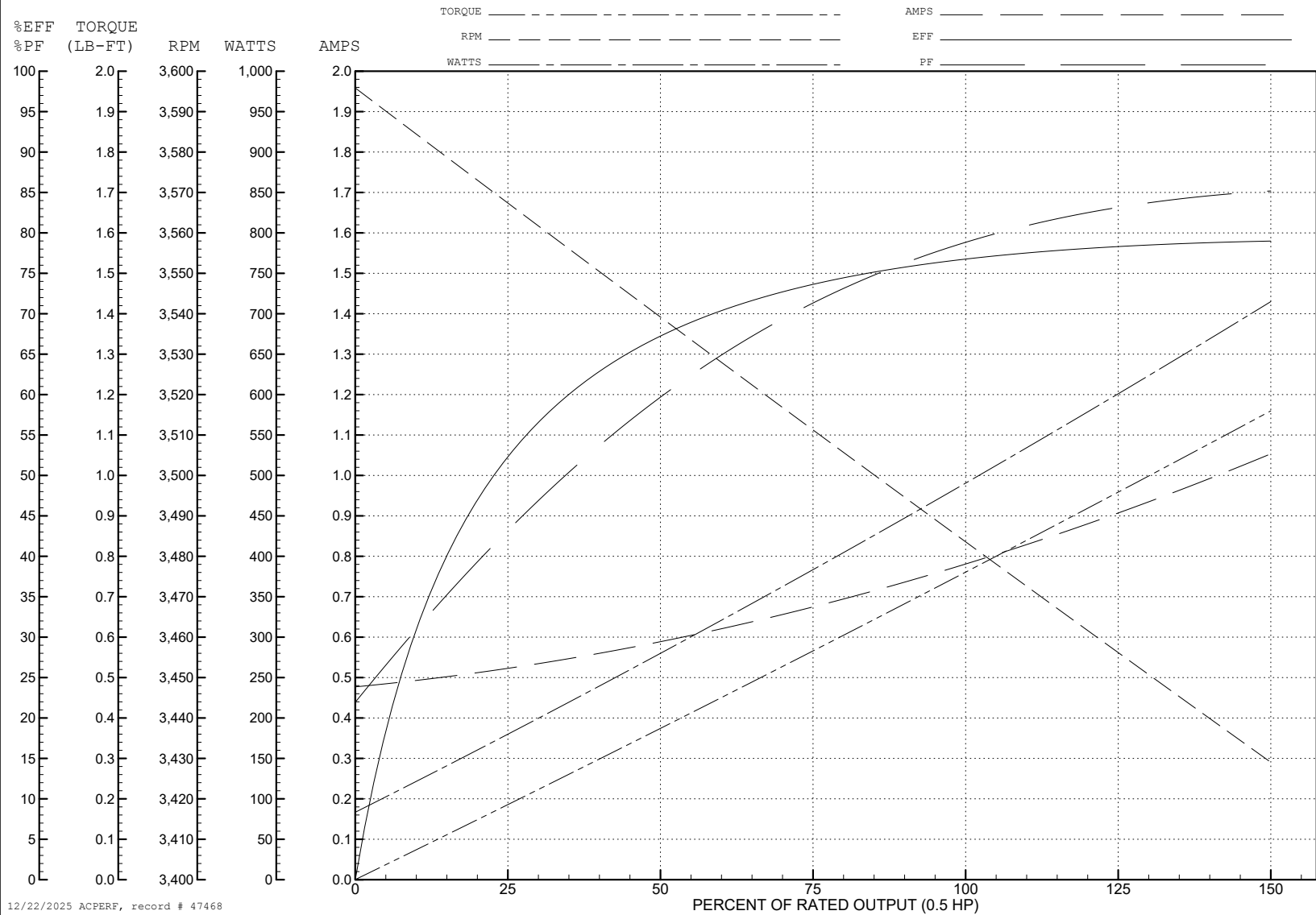
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WINDING # 34WGS937

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3416M

TORQUES (LB-FT) : PO=4.81 PU=3.29 LR=4.44 LRA=7.88



AC Induction Motor Performance Data

Record # 49386

Typical performance - not guaranteed values

Winding: 34WGS937-R002			Type: 3416M		Enclosure: OPEN			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.5	Full Load Torque		0.767 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		1.6/.8	Breakdown Torque		4.81 LB-FT			
R.P.M.		3450	Pull-up Torque		3.29 LB-FT			
Hz		60	Phase		3	Locked-rotor Torque	4.44 LB-FT	
NEMA Design Code		B	KVA Code		P	Starting Current	15.76 A	
Service Factor (S.F.)		1.25	No-load Current		0.96 A			
NEMA Nom. Eff.		73.4	Power Factor		78	Line-line Res. @ 25°C	5.52 Ω	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load			15°C
S.F. Amps		1.8/.9	Temp. Rise @ S.F. Load		17°C			
			Locked-rotor Power Factor		66			
			Rotor inertia		0.0148 LB-FT2			

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	61	72	78	83	85	83
Efficiency	54	67.8	73.9	76.9	78.3	78.8	78.3
Speed	3560	3537.1	3511.5	3484.8	3456.5	3427.6	3456
Line amperes	1.048	1.182	1.352	1.58	1.822	2.1	1.822

ABB Motors and Mechanical Inc.

WINDING # 34WGS937

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 3450 RPM 230 V 3416M

TORQUES (LB-FT): PO=4.81 PU=3.29 LR=4.44 LRA=15.76

